



Volume XXXX

Catalog 2008-2010

1st Printing

Published biennially by Miami Dade College, Miami, Florida.

The programs, policies, requirements and regulations published in this catalog are continually subject to review in order to serve the needs of the College's various publics, and are subject to change as circumstances may require.

WWW.MDC.EDU

Equal Access/Equal Opportunity

Miami Dade College is committed to providing equal access to education and employment opportunities to students, employees, applicants for admission and employment, and to its activities for the general community in an environment free from harassment or other discriminatory practices based upon gender, race, color, marital status, age, religion, national origin, veteran's status or disability. The College's commitment to equal access and equal opportunity is contained in the District Board of Trustee policies and procedures based on the nondiscrimination provisions of federal and state laws and regulations, including the Civil Rights Acts of 1964 and 1991, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act and the Florida Educational Equity Act (§ 1000.05, ES.)

In accord with these protections, Miami Dade College provides equal access/equal opportunity in admissions, recruitment, financial assistance, access to course offerings, participation in extracurricular programs and activities, access to and use of facilities, counseling, housing referral, guidance, advising, health services, athletics, employment and retention of personnel and students.

Responsibility for the implementation of the College's commitment to equal access and equal opportunity rests with the College president.

Consult the offices below for assistance or to obtain more detailed information on equal access/equal opportunity:

District Administration Joy C. Ruff Office of Employee Relations/Equal Opportunity Programs/ADA Coordinator Miami Dade College 11011 S.W. 104th St. Miami, FL 33176-3393 Phone: 305-237-2090 Fax: 305-237-0943

North Campus Office of the Campus President 11380 N.W. 27th Ave. Miami, FL 33167-3495

Visit www.mdc.edu

Kendall Campus Office of the Campus President 11011 S.W. 104th St. Miami, FL 33176-3393

Wolfson Campus Office of the Campus President 300 N.E. Second Ave. Miami, FL 33132-2296

Medical Center Campus Office of the Campus President 950 N.W. 20th St. Miami, FL 33127-4693

Homestead Campus Office of the Campus President 500 College Terrace Homestead, FL 33030-6009

InterAmerican Campus Office of the Campus President 627 S.W. 27th Ave. Miami, FL 33135

Hialeah Campus Office of the Campus President 1780 W. 49th St. Hialeah, FL 33012-2918

West Campus Office of the Campus President 3800 N.W. 115th Ave. Doral, FL 33178-4856

To obtain additional information about the College, including an Application for Admission/Readmission, contact any campus Admissions and Registration Office or visit the College's Web site at www.mdc.edu

Purpose of the Catalog

This Catalog provides prospective students, currently enrolled students and others information about Miami Dade College, especially its academic programs and student support services. The Catalog contains summaries of College policies for academic areas, degree and certificate requirements, descriptions of support services and course listings.

Because the Catalog is produced for a twoyear period, it does not necessarily contain all of the current policies and requirements. Prospective students and current students may verify these policies and requirements with an admissions officer or with an academic advisor.

Although faculty advisors and administrators will help students meet the requirements for a certificate or degree, the students are responsible for fulfilling requirements. The certificate or degree will be awarded only if all requirements have been met. It is important that students know the policies, requirements and procedures that they are expected to follow during their college career.

Accreditations

Miami Dade College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate and baccalaureate degrees

Additional accreditations include:

Accreditation Review Commission on Education for the Physician Assistant Inc. (ARC-PA)

American Bar Association, Standing Committee on Legal Assisting American Dental Association, Commission on Dental

Accreditation

American Dietetic Association, Commission on Accreditation of Dietetic Education

American Health Information Management Association (AHIMA) Council on Accreditation

Commission on Opticianry Accreditation Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP)

Council on Accreditation of Allied Health Education Programs (CAAHEP), Committee on Accreditation for Respiratory Care

Federal Aviation Administration

Florida Board of Nursing Florida Council of Licensed Midwifery

Florida Department of Health, Bureau of Emergency Medical Services

American Physical Therapy Association, Commission on Accreditation in Physical Therapy Education (CAPTE) Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission

Florida Real Estate Commission, Department of Business and Professional Regulation - Division of Real Estate American Board of Funeral Services Education Inc.

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

Joint Review Committee on Education in Diagnostic Medical Sonography Joint Review Committee on Education in Radiologic

Technology (JRCERT)

National Accrediting Agency for Clinical Laboratory

National League for Nursing (NLN), Accreditation

The Midwifery Education Accreditation Council

Professional Organizations and Association Memberships

American Association of Higher Education American Association of Collegiate Registrars and Admissions Officers

American Association of Community Colleges American Association of Women in Community and Junior Colleges

American Council on Education

American Council on International Intercultural Education Association of American Colleges and Universities Association of College Business Schools and Programs Association of Community College Trustees

Association of Governing Boards of Universities and Association of International Education Administrators

Beacon Council CAUSE, Association for Managing and Using Information

Technology in Higher Education Center for Study of the Presidency College Consortium for International Studies Community College Humanities Association

Community Colleges for International Development Conference of Funeral Service Examining Boards Consortium for Institutional Effectiveness and Student Success in the Community College EDUCOM

Florida Association of Colleges and Universities Florida Association of Community Colleges Florida-Brazil Institute Florida Campus Compact

Florida Collegiate Consortium for International/ Intercultural Education

Florida Community College Activities Association Florida Developmental Education Association Florida-France Institute

Florida Vocational Association

Fulbright Association

GATE: Global Alliance for Transitional Education Greater Miami Chamber of Commerce Institute of Certified Public Accountants Institute of International Education Instructional Telecommunications Consortium International Vocational Education and Training Association

League for Innovation in the Community College National Association of College and University Attorneys National Association of College and University Business

National Association of Foreign Student Affairs National Association of International Educators National Association of Student Financial Aid Administrators

National Association of Veterans' Program Administrators National Collegiate Honors Council National Commission for Cooperative Education

National Community College Hispanic Council National Council for Occupational Education

National Council for Staff, Program and Organizational Development National Council of Community College Business Officers

Southeast Florida Educational Computing Consortium Southeast Florida Library Information Network Southeastern Library Network

Southern Association of Colleges and Schools Southern Association of Community, Junior, and Technical Colleges

Southern Growth Policies Board

The College Board University Mortuary Science Education

Requests for review of letters of accreditation may be forwarded to the Office of the Provost for Academic and Student Affairs. Note: In addition to the above, Miami Dade College administrators, faculty and staff members participate in numerous other international, national, state and regional organizations. Additional information regarding professional associations may be obtained from the College.

3-5	Academic Calendar
6	About Miami Dade College
13	Admissions and Financial Aid
27	Student Services
33	Information and Policies
<i>3</i> 7	Academic Regulations
40	Standards of Academic Progress
43	Graduation Requirements and Transfer Information
53	Academic Programs
97	Collegewide Schools
102	Special Academic and Other Programs
111	Special Information
113	Academic Offerings
115	Course Information
122	Course Descriptions
<i>257</i>	Board of Trustees, Administration, Faculty and MDC Foundation
283	Academic Definitions
284	Maps
293	Index









				AUGUST							SEPTEMBER									
			5	5 N	1 1	гv	v T	' I		s	S	M	T	\mathbf{W}	T	F	s			
								1		2		1	2	3	4	5	6			
			3	3 .	4 5	5 6	7	8		9	7	8	9	10	11	12	13			
			1			2 1	3 14				14	15	16	17	18	19	20			
			1	, -		9 2					21	22	23	24	25	26	27			
			2		5 2	6 2	7 28	3 2	9 3	0	28	29	30							
			3	1																
		OC	TOB	ER					NO	VEM	BER					DI	ECEN	1BER		
s	M	T	\mathbf{w}	T	F	\mathbf{s}	s	M	T	\mathbf{w}	T	F	s	s	M	T	W	T	F	s
			1	2	3	4							1		1	2	3	4	5	6
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13
12	13	14	15	16	17	18	9	10	11	12	13	14			15	16	5 17	18	19	20
19	20	21	22	23	24	25	16	17	18	19	20	21		41	22	23	3 24	25	26	27
26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30) 31			
1							30													

												_		<u> </u>	_												
		JAI	NUA	RY				FEBRUARY						MARCH						APRIL							
s	M	T	\mathbf{W}	T	F	S	s	M	T	\mathbf{W}	T	F	s	S	M	T	\mathbf{W}	T	F	S	s	M	T	\mathbf{W}	T	F	s
				1	2	3	1	2	3	4	5	6	7	1	2	3	4	5	6	7				1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14	8	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	15	16	17	18	19	20	21	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31								29	30	31					26	27	28	29	30		
]	MAY	-				JUNE									JULY	7			AUGUST						
s	M	T	\mathbf{W}	T	F	s	s	M	T	\mathbf{w}	T	F	s	S	M	T	\mathbf{w}	T	F	s	s	M	T	\mathbf{W}	T	F	s
					1	2		1	2	3	4	5	6				1	2	3	4							1
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29
31																					30	31					
		SEP	TEM	BER					OC	TOB	ER			NOVEMBER							DECEMBER						
s	M	T	\mathbf{W}	T	F	S	s	M	T	\mathbf{W}	T	F	s	S	M	T	\mathbf{W}	T	F	S	s	M	T	\mathbf{W}	T	F	s
		1	2	3	4	5					1	2	3	1	2	3	4	5	6	7			1	2	3	4	5
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
27	28	29	30				25	26	27	28	29	30	31	29	30						27	28	29	30	31		

	JANUARY FEBRUARY									MARCH								APRIL									
s	M	T	\mathbf{W}	T	F	S	s	M	T	\mathbf{w}	T	F	s	s	M	T	\mathbf{W}	T	F	s	s	M	T	\mathbf{W}	T	F	s
					1	2		1	2	3	4	5	6		1	2	3	4	5	6					1	2	3
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13	4	5	6	7	8	9	10
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20	11	12	13	14	15	16	17
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27	18	19	20	21	22	23	24
24	25	26	27	28	29	30	28							28	29	30	31				25	26	27	28	29	30	
31																											
	MAY JUNE									JULY	7			AUGUST													
s	M	T	\mathbf{W}	T	F	S	s	M	T	\mathbf{w}	T	F	s	s	M	T	\mathbf{W}	T	F	s	s	M	T	\mathbf{w}	T	F	s
						1			1	2	3	4	5					1	2	3	1	2	3	4	5	6	7
2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31	29	30	31				
30	31																										
		SEP	TEM1	BER					OC	TOB	ER			NOVEMBER							DECEMBER						
s	M	T	\mathbf{W}	T	F	s	S	M	T	\mathbf{W}	T	F	s	s	M	T	\mathbf{W}	T	F	S	s	M	T	\mathbf{W}	T	F	s
			1	2	3	4						1	2		1	2	3	4	5	6				1	2	3	4
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
26	27	28	29	30			24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31	
							31																				

Academic Calendar 2008 - 2009

Fall Term

Aug. 25 (Mon.) Faculty report
Aug. 26 (Tue.) Fall term preparation.

Aug. 27 (Wed.) Evening and weekday classes begin*

Aug-Sept. 30-1 (Sat.-Mon.) Holiday – Labor Day

Sept. 3 (Wed.) Last day to drop classes with 100% refund for regular fall term classes

Sept. 6 (Sat.) Saturday classes begin*

Nov. 4 (Tue.) Last day to apply for institutional credit by examination, for individual course

withdrawal, and complete withdrawal from college

Nov. 27-30 (Thu.-Sun.) Holiday - Thanksgiving

Dec. 19 (Fri.) Last day of classes and examination

Dec. 20 (Sat.) Faculty grade input ends at noon. Last day for faculty

Dec. 22, 2008 - Jan. 2, 2009 (Mon.-Fri.) Winter break

Spring Term

Jan. 5 (Mon.) Faculty report

Jan. 6 (Tue.) Evening and weekday classes begin*

Jan. 10 (Sat.) Saturday classes begin*

Jan. 12 (Mon.) Last day to drop classes with 100% refund for regular spring term classes

Jan. 17-19 (Sat.-Mon.) Holiday – Martin Luther King, Jr. Day

Mar. 5 (Thu.) Professional Development Day – classes not in session

Mar. 18 (Wed.)

Last day to apply for institutional credit by examination, for individual course

withdrawal, and complete withdrawal from college

April 6 (Mon.) Last day to apply for a degree to be awarded for the 2008-2009 academic year

and have name appear in commencement program

April 10-12 (Fri.-Sun.) Spring Recess

May 1 (Fri.) Last day of classes and examination

May 2 (Sat.) Faculty grade input ends at noon. Last day for faculty

May 2 (Sat.) Commencement May 4-8 (Mon.-Fri.) Semester break

Summer Term

May 11 (Mon.) Faculty report

May 11 (Mon.) Evening and weekday classes begin for first 6-week summer session and for

the 12-week summer Term*

May 13 (Wed.)

Last day to drop classes with 100% refund for first 6-week summer session

May 14 (Thu.)

Last day to drop classes with 100% refund for the 12-week summer session

May 23-25 (Sat.-Mon.) Holiday - Memorial Day

June 5 (Fri.) Last day to apply for institutional credit by examination, for individual course

withdrawal, and complete withdrawal from college for the first 6-week summer session

June 19 (Fri.)

Last day of classes and examinations for the first 6-week summer session

June 20 (Sat.)

Faculty grade input for the first 6-week summer session ends at noon

June 22 (Mon.)

Evening and weekday classes begin for the second 6-week summer session

June 24 (Wed.)

Last day to drop classes with 100% refund for the second 6-week summer session

June 30 (Tue.)

Last day to apply for institutional credit by examination, for individual course

withdrawal, and complete withdrawal from college for the 12-week summer term

July 3-5 (Fri.) Holiday - Independence Day

July 17 (Fri.) Last day to apply for institutional credit by examination, for individual course withdrawal,

and complete withdrawal from college for the second 6-week summer session

July 31 (Fri.)

Last day of classes and examinations for the 12-week summer term and the

second 6-week summer session; Last day for faculty

Aug 1 (Sat.) Faculty grade input ends at midnight



Academic Calendar 2009 - 2010

Fall Term

Aug. 24 (Mon.) Faculty report
Aug. 25 (Tue.) Fall term preparation

Aug. 26 (Wed.) Evening and weekday classes begin*

Aug. 29 (Sat.) Saturday classes begin*

Sept. 1 (Tue.) Last day to drop classes with 100% refund for regular fall term classes

Sept. 5-7 (Sat.-Mon.) Holiday – Labor Day

Nov. 3 (Tue.) Last day to apply for institutional credit by examination, for individual course

withdrawal, and complete withdrawal from college

Nov. 26-29 (Thu.-Sun.) Holiday – Thanksgiving

Dec. 18 (Fri.)

Last day of classes and examination

Dec. 19 (Sat.) Faculty grade input ends at noon. Last day for faculty

Dec. 21, 2009 - Jan. 1, 2010 (Mon.-Fri.) Winter break

Spring Term

Jan. 4 (Mon.) Faculty report

Jan. 5 (Tue.) Evening and weekday classes begin*

Jan. 9 (Sat.) Saturday classes begin*

Jan. 11 (Mon.) Last day to drop classes with 100% refund for regular spring term classes

Jan. 16-18 (Sat.-Mon.) Holiday – Martin Luther King, Jr. Day

Mar. 4 (Thu.) Professional Development Day - classes not in session

Mar. 17 (Wed.)

Last day to apply for institutional credit by examination, for individual course withdrawal,

and complete withdrawal from college

Apr. 2-4 (Fri.-Sun.) Spring Recess

Apr. 5 (Mon.) Last day to apply for a degree to be awarded for the 2009-2010 academic year

and have name appear in commencement program

Apr. 30 (Fri.) Last day of classes and examination

May 1 (Sat.) Faculty grade input ends at noon. Last day for faculty

May 1 (Sat.) Commencement May 3-7 (Mon.-Fri.) Semester break

Summer Term

May 10 (Mon.) Faculty report

May 10 (Mon.) Evening and weekday classes begin for first 6-week summer session and

for the 12-week summer term*

May 12 (Wed.)

Last day to drop classes with 100% refund for first 6-week summer session

May 13 (Thur.)

Last day to drop classes with 100% refund for the 12-week summer term

May 29-31 (Sat.-Mon.) Holiday - Memorial Day

June 4 (Fri.) Last day to apply for institutional credit by examination, for individual course

withdrawal, and complete withdrawal from college for the first 6-week summer session

June 18 (Fri.)

Last day of classes and examinations for the first 6-week summer session

June 19 (Sat.)

Faculty grade input for the first 6-week summer session ends at midnight

June 21 (Mon.)

Last day to drop classes with 100% refund for the second 6-week summer session

June 29 (Tue.)

Last day to apply for institutional credit by examination, for individual course

withdrawal, and complete withdrawal from college for the 12-week summer term

July 3-5 (Mon.) Holiday - Independence Day

July 16 (Fri.)

Last day to apply for institutional credit by examination, for individual course withdrawal,

and complete withdrawal from college for the second 6-week summer session

July 30 (Fri.) Last day of classes and examinations for the 12-week summer term and the

second 6-week summer session

July 31 (Sat.) Faculty grade input ends at midnight; Last day for faculty

^{*}Registration information provided each term by campus Registration Office.

Hcademic Calendar 2010 - 2011

Fall Term

Aug. 23 (Mon.) Faculty report Aug. 24 (Tue.) Fall term preparation

Aug. 25 (Wed.) Evening and weekday classes begin*

Saturday classes begin* Aug. 28 (Sat.)

Aug. 31 (Tue.) Last day to drop classes with 100% refund for regular fall term classes

Sep. 4-6 (Sat.-Mon.) Holiday - Labor Day

Nov. 2 (Tue.) Last day to apply for institutional credit by examination for individual course

withdrawal, and complete withdrawal from college

Nov. 25-28 (Thu.-Sun.) Holiday - Thanksgiving

Dec. 17 (Fri.) Last day of classes and examination

Dec. 18 (Sat.) Faculty grade input ends at noon. Last day for faculty

Dec. 20-31 (Mon.-Fri.) Winter break

Spring Term

Jan. 3 (Mon.) Faculty report

Jan. 4 (Tue.) Evening and weekday classes begin*

Jan. 8 (Sat.) Saturday classes begin*

Last day to drop classes with 100% refund for regular spring term classes Jan. 10 (Mon.)

Jan. 15-17 (Sat.-Mon.) Holiday - Martin Luther King, Jr. Day

Mar. 3 (Thu.) Professional Development Day - classes nor in session

Mar. 16 (Wed.) Last day to apply for institutional credit by examination, for individual course

withdrawal, and complete withdrawal from college

Apr. 4 (Mon.) Last day to apply for a degree to be awarded for the 2010-2011 academic year

and have name appear in commencement program

Apr. 22-24 (Fri.-Sun.) Spring recess

Apr. 29 (Fri.) Last day of classes and examination

Apr. 30 (Sat.) Faculty grade input ends at noon. Last day for faculty

Apr. 30 (Sat.) Commencement May 2-6 (Mon.-Fri.) Semester break

Summer Term

May 9 (Mon.) **Faculty Report**

May 9 (Mon.) Evening and weekday classes begin for first 6-week summer session and for

the 12-week summer term*

Last day to drop classes with 100% refund for the 6-week summer session May 11 (Wed.) May 12 (Thu.) Last day to drop classes with 100% refund for the 12-week summer term

May 28-30 (Sat.-Mon.) Holiday - Memorial Day

June 3 (Fri.) Last day to apply for institutional credit by examination, for individual course

withdrawal, and complete withdrawal from college for the first 6-week summer session

June 17 (Fri.) Last day of classes and examinations for the first 6-week summer session June 18 (Sat.) Faculty grade input for the first 6-week summer session ends at midnight June 20 (Mon.) Evening and weekday classes begin for the second 6-week summer session*

June 22 (Wed.) Last day to drop classes with 100% refund for the second 6-week summer session June 28 (Tue.)

Last day to apply for institutional credit by examination, for individual course withdrawal,

and complete withdrawal from college for the 12-week summer term

July 4 (Tue.) Holiday - Independence Day

Last day to apply for institutional credit by examination, for individual course July 15 (Fri.)

withdrawal, and complete withdrawal from college for the 6-week summer term

Last day for classes and examinations for the 12-week summer term and July 29 (Fri.)

the second 6-week summer session

July 30 (Sat.) Faculty grade input ends at midnight; Last day for faculty 6 WWW.MDC.EDU

About Miami Dade College

iami Dade College offers a wide range of programs designed to meet the needs of Greater Miami. The College offers five degree options and a wide range of occupational certificates and specialized programs. The Associate in Arts degree (A.A.), designed to prepare students for further study at four-year institutions, includes more than 80 areas of concentration. MDC maintains more than 60 transfer agreements with colleges and universities across the state and country, guaranteeing entry for MDC students who meet the entry criteria. The Associate in Science degree (A.S.), with more than 60 areas of study, prepares students for direct entry into the workforce. Our A.S. graduates take advantage of the College's numerous partnerships with innovative businesses throughout South Florida. Miami Dade College currently offers three baccalaureate degrees: the Bachelor of Science in Education, the Bachelor of Science in Nursing and the Bachelor of Applied Science with a major in public safety management. Additional baccalaureate degrees/programs are planned for the coming years. In addition to these degrees, the College offers numerous short-term occupational certificate programs as well as courses of study to enhance career knowledge through continuing education. In the past five years, more than 50 new A.S. and certificate programs have been developed to meet the needs of Miami's growth.

The Open-Door Policy

Miami Dade College's open-door admissions policy provides educational opportunities to community residents and to national and international applicants. Anyone seeking to benefit from the degree or short-term certificate programs, or from the College's student and community services, is encouraged to enroll. The College welcomes all students regardless of sex, race, color, religion, marital status, age, national origin or disability.

Admission is a simple process, requiring a completed application form and official transcripts of high school or college studies. International applicants have additional entrance requirements based on U.S. immigration rules. Transfer students may receive credit for courses that equate to Miami Dade courses.

Mission Statement

The mission of Miami Dade College is to provide accessible, affordable, high quality education by keeping the learner's needs at the center of decision-making and working in partnership with its dynamic, multicultural community.



Teaching/Learning Values

Miami Dade College's mission derives its foundation from the values shared between teaching and learning. These educational principles are listed below, with each value followed by a series of supporting statements.

I. Miami Dade College Values Learning

To support this value, the College:

- creates an environment conducive to teaching and learning
- · supports life-long learning
- encourages the free interchange of ideas and beliefs
- provides the resources necessary for teaching and learning
- employs qualified personnel to facilitate learning
- provides advisement and counseling to support the needs of students
- expects everyone to participate actively in the learning process
- addresses the learning needs of the community
- emphasizes communication skills

II. Miami Dade College Values Change to Meet Educational Needs and to Improve Learning

To support this value, the College:

encourages and supports innovation and creativity

- responds to the changing educational needs of the community
- anticipates the future needs of the community
- supports faculty and staff development

III. Miami Dade College Values Access While Maintaining Quality

To support this value, the College:

- provides supportive services to assist students in meeting their educational goals
- offers students prescriptive learning opportunities
- provides occupational education that prepares the graduate to work at levels expected by the community
- expects students to meet defined standards
- provides academic programs that prepare the graduate to succeed in upper-division learning
- provides educational opportunities for personal development
- structures the admissions process to encourage enrollment
- provides a variety of scholarships and financial aid programs

IV. Miami Dade College Values Diversity in Order to Broaden Understanding and Learning

To support this value, the College:

- respects individuals from a variety of cultural backgrounds
- · provides role models
- offers interdisciplinary educational programs
- provides programs and opportunities for student growth
- teaches students about the cultural, economic, political and social environments in which they live
- helps students to understand themselves and others
- sponsors academic organizations and extracurricular activities
- respects and responds to students' different learning styles

 respects and accepts different teaching styles

V. Miami Dade College Values Individuals

To support this value, the College:

- encourages a positive attitude toward teaching and learning
- · stresses honesty and integrity
- · expects all individuals to interact
- communicates accurately and promptly
- recognizes the importance of prior learning and experience
- develops realistic expectations for all individuals
- publishes explicit performance expectations for faculty, staff and administrators
- publishes explicit performance expectations for students
- · rewards achievement

VI. Miami Dade College Values a Systematic Approach to Decision-Making

To support this value, the College:

- collects accurate and current data
- assesses the community's learning needs
- · measures students' abilities

- upon entry to the institution
- · assesses programs' effectiveness
- provides feedback to assist in meeting standards
- evaluates students' progress throughout their careers at Miami Dade College
- encourages individuals to be aware of relevant current research
- surveys students' perceptions about courses, programs and the teaching/learning environment
- uses the expertise of the faculty to improve the teaching/learning process

VII.Miami Dade College Values Its Partnership With the Community

To support this value, the College:

- provides accessible campus and outreach centers
- cooperates with other educational systems
- supports activities that enrich the community
- plans educational programs with business and industry to promote the economic development of the community
- increases the community's awareness of College programs and activities



WWW.MDC.EDU

Vision Statement

Miami Dade College is committed to being a college of excellence, renowned for its:

- satisfied, well-prepared students who, through their extraordinarily positive experience at MDC, have acquired the needed knowledge and skills to be successful in their ongoing academic and career pursuits
- empowered employees working within an environment that encourages creativity, risk-taking and accountability, who apply their individual and collective talents to fulfill the College's mission
- highly supportive community that recognizes the significant impact of MDC's educational and training programs.
- effective use of adequate resources to enable programs to flourish and the talents of people to emerge

MDC History

The 60s: Opening Education's Doors

Miami Dade College opened its doors as Dade County Junior College in 1960 amid desegregation and the influx of thousands of Cuban refugees. In year one, 1,428 students entered "Chicken Coop College," nicknamed for the original buildings that were transformed into classrooms. The College was open to any county resident who had graduated from high school. The student body included the seven black students who made Dade County Junior the first integrated junior college in Florida. These students, along with the many Cuban refugees seeking to better their lives, paid a \$5 application fee, but tuition was free to all county residents.

By the mid-60s, the College was already thinking long range. With nearly 15,000 students attending, the original North Campus buildings were bursting at the seams. New construction was under way, with an eye toward not only a second campus in Kendall, but a third in downtown Miami. By 1967, the College was the largest institution of higher education in the state of Florida, enrolling 23,341 students. Dade Junior had be-

come the fastest-growing junior college in the nation. It enrolled more freshmen than the University of Florida, Florida State University and the University of South Florida combined.

The 70s: Setting the Standard

In the mid-70s, the College's guiding philosophy of "access with excellence" was clearly defined. A bold education review reaffirmed the College's open-door policy and toughened academic standards. The project and its goals became the standard for community colleges across the country. K. Patricia Cross, visiting professor at Harvard University's Graduate School of Education, called the College "the most exciting institution of higher education in the country."

The excitement spread to every corner of this changing community. The downtown campus, later to be renamed for one of the College's founders, Mitchell Wolfson, was born in 1970. The Medical Center Campus was founded in 1977, and bilingual studies became a full-fledged division in 1979, with more than 2,000 students enrolled in outreach centers in the Little Havana area. These centers would soon become the Inter-American Center, the largest bilingual facility in all of higher education.

The 80s: Maturity and Recognition

By the 1983-84 academic year, the effects of a changing community were reflected at the community college. Thirty percent (nearly 18,000 students) were immigrants, and 46 percent reported that English was not their native language. Almost two-thirds of students enrolled in the College were minorities, and 56 percent were women. Part-time students were common.

In 1984, the New World School of the Arts (NWSA) was conceived. Designed to train future performing and visual artists from high school through the baccalaureate, the school became an educational partnership of Miami Dade College, Miami-Dade County Public Schools and Florida International University, with FIU handing the baton to the University of Florida in 1997. Today NWSA is recognized as one of the premier arts conservatories in the country, with the work of

its graduates gracing venues from New York to Los Angeles.

1984 also was witness to a modest College-sponsored bookfest on Kyriakides Plaza at the Wolfson Campus. "Books by the Bay" drew a surprising crowd of 25,000 people over two days. Today, Miami Book Fair International is not only South Florida's premier cultural happening, it is the most respected literary event in the country.

The College's fifth campus, in Homestead, opened in 1985 at the First Baptist Church with 350 students. By 1991, a modern campus facility had been built for South Dade's ever-growing student population.

With the closing of the decade, the College's place in education was nationally recognized: the prestigious University of Texas Community College Leadership Program identified the College as the number one community college in America.

The 90s: Ready for the New Economy

College personnel challenged the mindset of the past by initiating comprehensive reforms in academic programs and administrative operations. The College's Education Review revamped the academic core and electives by modernizing the curriculum to meet the needs of a changing society. Progressiveness was not limited to education, as the reengineering process also brought improved strategies to human resources, maintenance operations and budget formulation. The College's effort to streamline its bureaucracy and contain costs brought a new financial stability, freeing resources for new staff and program development.

The College's Technology Master Plan put the College on the fast-track in academic and administrative computing throughout the 1990s. The College sought to keep pace with the changing economy and workforce, developing strong partnerships throughout business and industry. More than 50 new degree and short-term certificate training programs were developed, all aimed at emerging industries and South Florida's job market. The College developed multimedia classrooms and the Virtual College placed the College on the Internet map, allowing students to take classes online.

Recognition soon followed: Yahoo! Internet Life proclaimed MDC "WIRED" and voted the College "second best of all colleges and universities." The College's information technology efforts also gained residence in the Smithsonian's permanent collection with a nomination for the Smithsonian Innovation Award.

The College's sixth campus became a reality in the mid-90s when the already matured InterAmerican Center was granted campus status by the District Board of Trustees and was accredited by the Southern Association of Colleges and Schools.

2000:A New Learning Agenda

The new millennium dawned and Miami Dade breezed through the Y2K jitters safe and sound in its mission to serve students. The College's "Learning Agenda" laid out the next phase of growth, exploring new learning models and student support programs, as well as campus, faculty and leadership development efforts. As always, students stand at the center of this vision: their success is the ongoing, number one priority of Miami Dade College.

The Honors College offers a scholarly environment that challenges academically gifted and intellectually curious students. In addition to expert teachers and a rich comprehensive curriculum, The Honors College offers students a generous scholarship award, collegewide support services and enrichment opportunities that include attendance and participation at national and regional conferences, internships, corporate coaches, travel study tours, university transfer counseling and an individual educational plan. The successful Honors College graduate will be prepared to transfer to many of the most prestigious colleges and universities in the nation.

The Emerging Technologies Center of the Americas (ETCOTA) is the College's response to the need for a qualified workforce to fill the thousands of new jobs in Information Technology and Telecommunications. ETCOTA is a dynamic, state-of-the-art 40,000 square-foot facility housing 19 multimedia classrooms and labs equipped with high-end computers, specialized instrumentation equipment and simulation work-stations. Located at Wolfson Campus, the Center also has a

120-seat auditorium and offices for faculty and staff.

With the addition of four-year degrees in 2003, the institution changed its name to Miami Dade College. While the word "community" is no longer in the title, the College remains the "Community's College," committed to the educational needs of individuals and industries throughout South Florida. Baccalaureate degrees are offered in education, public safety management and nursing.

In 2005, MDC received official reaccreditation from the Southern Association of Colleges and Schools (SACS), the regional accreditation body. At 10-year intervals, SACS places higher education institutions under the microscope, and MDC passed the review with flying colors. During the review, MDC introduced "The Math Connection," a five-year program of continuous improvement for math students, and Learning Agenda II, with special emphasis on learning outcomes, assessment and competencies.

In 2006, MDC reached an astonishing milestone, welcoming its 1.5 millionth student. In a community of 2.3 million, MDC's role remains central to educational, social, cultural and economic growth.

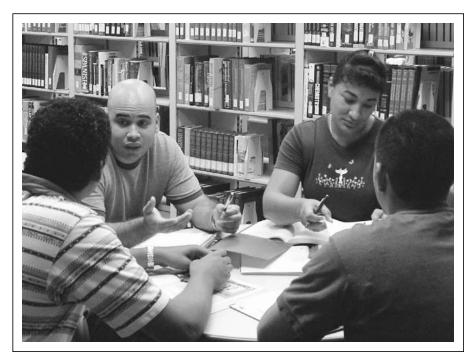
MDC's welcomed President George W. Bush for commencement exercises at Kendall Campus. Bush applauded MDC as "democracy's college." MDC also became the proud steward of the historic

Freedom Tower, where many immigrants arrived in the 1960s and 1970s. The building hosted the first U.S. exhibition of the complete etchings of Francisco de Goya and a covenant singing for the College's 10 Learning Outcomes, attended by Sara Martinez Tucker, the U.S. under secretary of education. These general education outcomes and assessment methods drew national praise and represented MDC's unique contribution to new a era of liberal learning and the need to effectively assess student learning.

The College continues to contribute to the region's cultural landscape via world-class programs, including those offered by its Florida Center for the Literary Arts and Art Gallery System, New World School of the Arts and Cultural Affairs Department. The year 2008 celebrated the 25th anniversaries of both the Miami International Film Festival and the Miami Book Fair International. The New York Times named MDC's cultural programming among the best in academia.

Campuses

MDC enrolls more than 160,000 students at its eight campuses and smaller satellite centers throughout Miami-Dade County. While each campus has developed its own distinct identity, the entire College is united around a fundamental



mission: providing access to high-quality educational opportunities for all residents of the community.

North

Located on 245 acres in northern Miami-Dade County, this beautifully land-scaped campus was the College's first. It was built in 1960 on land that once hosted a World War II Naval air station. The main academic buildings of the Campus surround a serene lake and lush walking paths. North Campus is a major gateway for students wishing to upgrade skills, complete one-year certificate programs, prepare for licensing exams or complete a bachelor's degree.

North Campus is also recognized for its unique programs. The School of Justice offers the Bachelor of Applied Science with a major in public safety management and provides basic training for all police and correctional officers in Miami-Dade County as well as more than half the private security personnel. The School of Fire and Environmental Sciences trains all Miami-Dade County firefighters and provides continuing education for municipalities through-

out the county and the east coast. A live fire training facility is the only one of its kind in South Florida. Additionally, the School offers programs in chemical and watershed management. North Campus also houses the Funeral Services program that trains morticians and funeral service directors, the only program of its kind in southeastern Florida. Those students wishing to pursue careers in film and digital imaging, television and sound engineering, or radio and music business take advantage of the school of Entertainment Technologies. This School operates the cable station MDC TV, and in 2008 it inaugurated the Televisa Centre for Film and Television Production, a hub for Latin American and Caribbean entertainment industries. North Campus also administers the Carrie P. Meek Entrepreneurial Education Center, which promotes excellence in education, entrepreneurship and workforce preparation.

Kendall

Kendall Campus, situated on a 185acre tract of trees and lakes, opened in 1967, and has become home to a wide variety of academic programs and specialized institutes. The campus features 14 buildings equipped with the latest technologies, a wellness center with an Olympic-sized pool, and several athletic fields.

Kendall Campus offers a comprehensive range of learning opportunities. Kendall provides students with transfer programs designed to facilitate the move to four-year institutions, programs that enhance and modernize professional and technical skills, and preparatory programs for licensing or certification.

Kendall Campus' Title V Project, "Creating a Culture of Success in Science, Mathematics, and Engineering," provides students with academic support services focused on enhancing student learning in these disciplines. The Environmental Center is a 10-acre facility on campus that hosts Eco Tours for more than 10,000 schoolchildren each vear. The Gourmet Academy is the culinary showpiece of Kendall Campus and offers a variety of non-credit programs and courses to the community. Located west of the main campus, the Landscape Technology Program maintains a large nursery and several greenhouses. One



of the newest additions to the campus is the Geology Museum and Demonstration Center, which boasts one of the largest collections of geological specimens in the southeastern United States. The Kendall Campus art gallery provides the campus and surrounding community with several exhibitions each year and houses a permanent collection of more than 700 works. The student newspaper, *The Catalyst*, and the campus literary magazine, *Miambiance*, are award-winning publications.

Wolfson

Wolfson Campus opened in 1970 by holding classes in the storefronts of downtown Miami. With the completion of the campus' first permanent facility in 1973, Wolfson Campus catalyzed a downtown renaissance by hosting all manner of civic and cultural discourse. It is the only comprehensive urban campus in the city. Located within the city's financial, governmental, technological and cultural hubs, Wolfson Campus capitalizes on its unique geographic resource by offering programs in banking/financial services, business, computer technology, paralegal studies, architecture, economics, hospitality management, engineering, the arts, humanities and social sciences.

Wolfson Campus is home to the Emerging Technologies Center of the Americas (ETCOTA), a state-of-the-art, 40,000-square-foot high-tech training facility. It has fast become the leading provider of skilled professionals for the region's emerging technology industries. The campus also houses the New World School of the Arts, a comprehensive high school and college program, recognized as one of the best performing and visual arts schools in the country.

Each year Wolfson Campus hosts Miami Book Fair International. This is the nation's largest and finest literary festival, bringing hundreds of renowned authors, publishing houses and hundreds of thousands of fairgoers to the Campus. *The New York Times* calls this Wolfson Campus event the model for all other book fairs.

Medical Center

In 1977, Miami Dade College opened its Medical Center Campus on 4.3 acres within the city's medical/civic center complex. Along with the other members

of this complex (the University of Miami Miller School of Medicine, UM/Jackson Memorial Hospital, Veterans Administration Hospital and Miami-Dade County Public Health Service), Medical Center Campus forms the backbone of Miami's health care community. The campus offers specialty disciplines in nursing and allied health, and state-of-the-art technologies help to ensure that students are prepared in these and other challenging medical careers. Medical Center Campus educates two-thirds of the newly graduated registered nurses in Miami-Dade County. The practical nursing program (LPN) was reopened in 2000 and the Bachelor of Science in Nursing launched in 2008. More than 20 Allied Health programs are offered, including Physician's Assistant, Opticianry, Emergency Medical Technician, Veterinary Technology, Physical Therapist Assistant, Dental Hygiene and more. Quality medical faculty guide students with support from tutors, labs and the Student Success Center.

Homestead

In 1990, Homestead became the fifth campus of Miami Dade College. It was opened in the historic downtown district of the city of Homestead with the mission to deliver a full range of higher education programs for the Homestead/ Florida City communities. In fulfilling its mission, the campus enhances the community's capacity to meet cultural and social needs, in turn fostering a stronger sense of community. This togetherness was very important following the devastation of Hurricane Andrew and the closing of the Homestead Air Force Base. After Hurricane Andrew, the campus, like the city of Homestead, began to rebuild, adding four new facilities by 1996. In January of 2002, the College opened its Aviation Building, housing a simulator of an airport control tower and runways, as well as classrooms and avionics equipment to support the aviation program. The aviation program also extends to facilities at Miami International Airport and Tamiami Airport.

Today, Homestead Campus is a modern, six-building complex offering an array of academic programs, including aviation, entertainment technologies, arts and sciences, and nursing. The campus' award-winning structures include a computer courtyard, student learning lab, career center and specialized assessment facility. As the community continues to grow, Homestead Campus will also grow, expanding its horizons to meet the needs of the South Dade community.

InterAmerican

InterAmerican Campus is located in the heart of Little Havana, a colorful and lively neighborhood in Miami's historic Latin Quarter. The seed for InterAmerican Campus was planted in 1972 when the College offered two night courses at the Belen Jesuit Prep School. Sixty students enrolled. By 1979, the program had blossomed into the Wolfson Campus' Division of Bilingual Studies, enrolling 2,000 students.

In the early 1980s, an influx of students from Latin America and the Caribbean led to the addition of day classes and full-time faculty. By 1986, the division had grown to "center" designation, and it moved into a building in Little Havana purchased by the College Foundation. InterAmerican Center became the largest bilingual learning environment in all of higher education.

With enrollment at 5,500, the College District Board of Trustees petitioned the state of Florida for "campus" status. The request was approved and on March 27, 2001, InterAmerican Campus was born. The District Board of Trustees pronounced InterAmerican Campus a full-fledged, full-service campus, the sixth campus of Miami Dade College.

Today, InterAmerican Campus provides service to students in over 200 programs. It is also home to the College's School of Education, which offers bachelor's degree programs in secondary mathematics education, exceptional student education, and secondary science education in the areas of biology, chemistry, physics and earth/space science.

Hialeah

Hialeah Campus became MDC's seventh campus, accorded official campus status by the Florida State Board of Education in 2005. The campus serves the Greater Hialeah-Miami Lakes area, offering day and evening classes six days a week. Courses leading to the Associate in Arts and Associate in Science degrees

are offered. Educational opportunities are also available through career technical education programs, as well as through courses providing career entry in computer technology, office technology, electronics, and early childhood development. Hialeah Campus houses a large and comprehensive English-language training program for speakers of other languages in various instructional formats.

West

West Campus was approved by the Florida Board of Education in 2005 as MDC's eighth campus. Serving one of the fastest-growing locales in Miami-Dade County, including Doral and surrounding areas, West Campus offers courses to-

ward the Associate in Arts and Associate in Science degrees. Corporate training programs are also offered at West Campus. West Campus opened for classes on March 1, 2006, and promises to be the next exciting learning environment for the greater Miami community. It houses the College archive, and in 2007 it opened the first public art gallery in Doral.

The Carrie P. Meek Entrepreneurial Education Center

The Carrie P. Meek Entrepreneurial Education Center is an outreach program of the North Campus. It opened its doors on Oct. 4, 1989, in the heart of Liberty

City, a predominantly African-American community within the City of Miami. The mission of the Entrepreneurial Education Center is to implement the broader mission of the College while promoting entrepreneurship, business growth and economic revitalization for the local residents of Liberty City and the surrounding communities.

The Entrepreneurial Education Center offers a vast array of college credit and non-credit courses. Students pursue certificate and vocational programs in a number of fields and participate in seminars and conferences that promote workforce training and business skills and facilitate entrepreneurship and entry into the labor market.



Admissions & Financial Aid

ADMISSIONS INFORMATION

Admissions (Criteria	15
--------------	----------	----

- How to Apply 16
- Florida Residency 18
- Residency for Tuition Purposes 20
- International Student Admissions 21
- Admission to Continuing Education Programs and Courses 23
 - Fees and Refunds 23
 - Fee Policy for Repeated Courses 24
 - Refund Policy 24
 - Payment Policy 24
 - Florida Pre-Paid Tuition Program 24

FINANCIAL AID INFORMATION

- Student Financial Aid 25
- Philosophy of Financial Aid 25
 - What is Financial Need? 25
 - How to Apply 25
 - Verification 25
 - Reapplying 26
- Basis on Which Financial Aid is Granted 26
 - Who Qualifies for Financial Aid 26
 - Refunds and Repayments 26
- Miami Dade Student Assistance Programs 26
 - Tax Help for Educational Expenses 26
 - Veterans Administration Assistance 26
 - Other Sources of Financial Assistance 26











Admissions Information

Admissions Criteria

Admission to College Credit Programs

- The following persons are eligible for admission to the college credit programs of Miami Dade College:
 - a) Graduates from accredited high schools in the United States (standard diploma), persons holding a state-issued high school diploma equivalent (GED), or students who have completed a home education program evidenced by a signed affidavit from their parent or legal guardian stating that the student completed a home education program (all programs);
 - b) Transfer students from accredited colleges, universities and certain other post-secondary institutions (all programs);
 - c) Foreign students with education equivalent to U.S. secondary school education and meeting language standards established through College policy and/or procedure (all programs).
- Prior to enrolling in college degree programs, all first-time-in-college students are required to be tested for achievement of communication and computation competencies. Students scoring below established minimum levels are required to enroll in college preparatory instruction.
- 3. A limited number of programs have supplementary admission requirements. Applicants who have been convicted of a felony or are the subject of an arrest pertaining to a controlled substance and who wish to apply for a program that leads to licensure should confer with the regulatory/licensing agency to determine eligibility for future credentialing and practice. Applicants who are determined not eligible for licensing for any reason may apply for admission to that program but must recognize that program completion may not result in licensure or employment (students

- should consult the campus admissions office).
- 4. Admission to special student categories (dual enrollment, early admission) is permitted when authorized by the College president.
- Foreign students who require a student visa (F-1) must also provide the following supplementary admission documents:
 - a) An English-language placement test score such as TOEFL or ACT/ ESL, for students whose native language is not English. This can be completed upon arrival at the College.
 - b) Proof of mandatory health insurance coverage required prior to registration.
 - c) Official bank letter of financial resources available to support education costs.
 - d) Evidence of completion of secondary education, or equivalent, submitted with a certified official English translation. All required information is to be submitted to the admissions office of the campus to which the application

is directed 90 days in advance of the beginning of the next term.

Admission to Post-Secondary Adult Vocational (PSAV) Credit Certificate Programs

- 1. The following persons are eligible for admission to the Vocational Credit programs of Miami Dade College: Graduates from accredited high schools, persons holding a state-issued high school equivalent (GED) diploma, students who have completed a home education program evidenced by a signed affidavit from their parents or legal guardian stating that the student completed a home education program, or persons at least 16 years of age or older who have left high school prior to completion. Some programs may require high school completion or equivalent as a requirement of admission (consult campus admissions office).
- 2. Students enrolling in a vocational credit certificate program of 180 or more contact hours are required to be tested for basic skills. All those



- who complete the program must meet basic skills competencies before the Vocational Certificate is awarded.
- A limited number of programs have supplementary admission requirements (consult campus admissions office).
- Foreign students who require a student visa (M-1) must also provide the supplementary admission documents indicated in 5 above.

Note: Students graduating from a Florida public high school subsequent to Aug. 1, 1987 and applying for admission to an associate degree program must meet the specific general requirements for high school graduation as defined in §1003.43, Florida Statute (ES.).

How to Apply

Admissions Procedures and Supporting Credentials

- A. The application for admission should be sent to the Admissions Office on the campus where the student plans to enroll, or submitted via the Internet. The application may also be accessed at MDC's homepage (www.mdc.edu) by first selecting "Prospective Students," and then "Admissions" and "Apply to MDC." Submit the application prior to the beginning of the term of enrollment. International students and out of state students should submit the application at least 60 days prior to the beginning of the term. A \$20 non-refundable application fee is charged for processing a student's first application.
- B. All Florida residents must complete a Florida Residency Statement to verify resident status for assessing fees and tuition. The statement is provided as part of the admission application package. See "Florida Residency" information in this catalog for additional details (page 18).
- C. Official transcript(s) should be sent directly from the applicant's high school, college or other post-secondary educational institution to the Admissions Office of MDC.
- D. High school equivalency diploma or certificate holders should provide the original document and score report (which will be returned). In

- Florida, this certificate is the General Education Development Diploma. See the General Educational Development (GED) section (page 17) for additional information.
- E. Failure to submit all necessary admissions credentials, transcripts or certifications will prevent registration, release of grades, transcripts or enrollment certification.

Transfer Student Information

A transfer student's transcripts become part of the official student permanent record. Transfer credits are accepted only from regionally accredited colleges and universities or nationally accredited institutions that participate in the Florida Course Numbering System unless a written agreement between MDC and a specific postsecondary institution has been previously approved. Courses from previous college(s) will be evaluated after the student is admitted to MDC. MDC will determine how many credits, if any, will apply toward a degree. Credit may be granted only for courses in which grades of "D" or better have been earned. The grade of "D" shall transfer and count toward the associate and baccalaureate degrees in the same way as "D" grades obtained by MDC students. Failing grades from other colleges are computed in the student's cumulative grade point average. A student who was on academic probation at a previous college may be admitted to MDC in a similar status. See the Standards of Academic Progress in the "Academic Regulations" section of this catalog.

College courses completed more than 10 years prior to the date of enrollment at Miami Dade may require validation by examination. A high school transcript indicating date of graduation may be required of applicants who have completed fewer than 12 acceptable college credits.

Students who have taken courses in non-English speaking countries must have an official certified translation made of their credits and submit this translation to the Admissions Office. (See International Student Admissions section for further requirements)

Transient Student Information

Transient students are students who are enrolled in another college or university and are coming to MDC to take one or a few courses. Transient students should be advised, preferably in writing, by their own college or university concerning recommended courses to take at Miami Dade. Prerequisite and/or co-requisite course requirements may apply to course selections. Transient non-degree students at Miami Dade College may be required to have official transcript(s) sent directly to Miami Dade College from their previous college(s). Transient students are advised to use Florida's official online student advising system at www.facts.org.

Non-Degree Applicants

Non-degree applicants are students who wish to take selected college courses without the intent of completing an associate or baccalaureate degree program. These students must fill out an application for admission and provide evidence of high school graduation. Many people attend the College because they want to upgrade their job skills, for transfer credit purposes or for their own personal interest and enjoyment. Nondegree students who wish to enroll in a math or English course or who have earned more than 15 credits as a nondegree student are required to complete the Computerized Placement Test (CPT), or provide valid ACT or SAT scores. If, at a later time, these students become associate degree candidates, regular admissions procedures regarding all transcript(s) requirements will apply.

Special Admissions Categories

In each of the following categories, the regular admissions procedures apply:

- A. **Dual Enrollment** Selected high school students (10th, 11th or 12th grades) may enroll for a maximum of two courses each semester, excluding labs, up to a maximum of 24 credits each academic year. Acceptance in the Dual Enrollment program is based on the following:
 - 1. Minimum 3.0 (unweighted) high school grade point average.

- Permission from the parent(s), high school guidance counselor and principal.
- 3. A student's expressed intent to pursue a post-secondary degree.
- 4. Successful completion of the appropriate section of the College's Computerized Placement Test (CPT). Students who do not successfully complete the appropriate test will not be permitted to enroll at MDC until after high school graduation.
- 5. Interview with a member of the College's advisement/counseling staff to determine that the student has the potential to complete college credit courses successfully. A special form for parental/high school approval is provided by the Admissions Office. This form is to be submitted prior to each term of enrollment to assure continuity of appropriate approvals. All information about dual enrollment may be accessed on the Web at www.mdc.edu.
- B. Early Admission Academically superior high school students may attend Miami Dade College in lieu of their senior year in high school. In addition to the requirements for Dual Enrollment above, the applicant for early admission must prepare and present to a high school counselor a comprehensive educational plan justifying early admission. The College will accept for screening only those applicants who have received approval from their principal to apply for early admission.

The applicant also must have advance approval from the high school principal to apply college credits toward high school graduation. Normally, a minimum of 24 college credits meets the requirements for the student's senior year and high school graduation. A special approval form is available in the College's Admissions Office.

Readmission to the College

Submit an application for readmission and a new residency statement if any of the following apply:

1. The student was admitted for a specific term but did not enroll

- 2. The student did not attend any one of the four preceding terms
- The student attended other colleges or universities since the last time enrolled at MDC. In this case, official transcripts from those institutions will be required for degree-seeking students
- 4. The Florida student residency was completed more than 12 months ago. The readmission form may be found on the Web site at www.mdc.edu and click on "Prospective Students" then "Admissions."

College Preparatory Courses

Degree-seeking students who have never attended college will be tested for proficiency in reading, writing and mathematics.

Students will be placed into college preparatory courses in the subjects where scores indicate a need for this instruction. Enrollment in certain other courses may be restricted until all college prep courses have been completed.

In accordance with §240.321, ES., students may use adult basic education, adult secondary education or private provider instruction as an alternative to traditional college preparatory instruction.

State law requires students to complete college prep courses by the time 12 credits are accumulated.

Florida Board of Education rules limit the number of times a student can take a college prep course. Enrollment beyond the 100 percent refund deadline is considered an "attempt," and students can attempt a course only three times. Contact Academic Advisement for additional information.

Eligibility for Placement Into Select College Programs and Programs Leading to Licensure

All candidates for admission to the College are accepted for enrollment as stipulated in the College "Admissions Policy Statement."

However, some specialized programs, such as those offered by Medical Center Campus, have specific eligibility requirements due to enrollment limitations imposed by physical facilities, state licensure regulations or related criteria.

Students requesting placement into such programs will receive specific eligibility requirements from the divisions or departments concerned. A selection committee determines final approval for placement into these specific programs. The department chairperson provides notification of placement into these programs to each individual candidate.

Students who are not selected for a specific program are encouraged to continue their studies in other courses and programs at the College. Counseling and advisement offices will assist all such students to determine alternative educational objectives.

A limited number of programs have supplementary admissions requirements. Applicants who have been convicted of a felony and/or subjected to an arrest pertaining to a controlled substance and are applying to a program that leads to licensure may be ineligible for that license. Applicants in this situation should check with the appropriate regulatory/licensing agency to determine whether this would be the case These students still can be admitted to the program, but need to understand that program completion may not result in licensure or employment. Additionally, there are usually other requirements for licensure, such as physical and psychological criteria, completion of unpaid internships, criminal history verification and other background checks. It is the student's responsibility to understand and meet these requirements.

General Educational Development (GED) Tests and Diploma

Adults who are not high school graduates can obtain an equivalent to a Florida high school diploma by successfully completing the General Educational Development (GED) test. A GED holder is eligible for admission to associate degree programs at the College.

To qualify to take the Florida GED test, individuals must be at least 16 years old and reside in the state. A 16- or 17-year-old must meet College criteria to be eligible to prepare for and take the GED test.

Preparation for the GED test is available at all MDC campuses. Individuals should contact campus Community

Education departments for assistance and further information. The GED test covers writing skills, reading skills, social studies, science and mathematics. A fee is charged to take the test battery, and there is an additional charge, although nominal, to retake subtests.

Teacher Certification Information

Before taking courses to meet Teacher Certification requirements, teachers should confirm from their public school district's certification office or the Florida Department of Education's Office of Teacher Education, Certification and Staff Development, that the courses in which they wish to enroll meet specific certification requirements.

College credit courses offered by Miami Dade College, as approved by the Certification Office, may be used for extension, reissuing, other vocational certificates, reinstatement of certificates and for recency of credit. Additionally, information about courses required for general and professional preparation certification is available at the Department of Education or campus Academic Advisement offices.

Florida Residency

Miami Dade College policy concerning Florida residency requirements complies with the laws of Florida (§1009.21, ES.) and Rule 6A-10.044, EA.C., which are reprinted as follows: §1009.21, ES. determination of resident status for tuition purposes.

Students shall be classified as residents or non-residents for the purpose of assessing tuition fees in public community colleges and universities.

- (1) As used in this section:
 - (a) The term "dependent child" means any person, whether or not living with his parent(s), who is eligible to be claimed by his or her parent(s) as a dependent under the Federal Income Tax Code.
 - (b) The term "institution of higher education" means any public community college or state university.
 - (c) A "legal resident" or "resident" is a person who has maintained his or her residence in this state for the preceding year, has purchased a home which is occupied by him or her as his or her residence, or has established a domicile in

- this state pursuant to §222.17, FS.
- (d) The term "parent" means the natural or adoptive parent or legal guardian of a dependent child.
- (e) A "resident for tuition purposes" is a person who qualifies as provided in subsection (2) for the in-state tuition rate; a "non-resident for tuition purposes" is a person who does not qualify for the in-state tuition rate.
- (2) (a) To qualify as a resident for tuition purposes:
 - 1. A person or, if that person is a dependent child, his or her parent(s) must have established legal residence in this state and must have maintained legal residence in this state for at least 12 months immediately prior to his or her qualification.
 - Every applicant for admission to an institution of higher education shall be required to make a statement as to his or her length of residence in the state and, further, shall establish that his or her presence or, if the applicant is a dependent child, the presence of his or her parent or parents in the state currently is, and during the requisite 12-month qualifying period was, for the purpose of maintaining a bona fide domicile, rather than for the purpose of maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education.
 - (b) However, with respect to a dependent child living with an adult relative other than the child's parent, such child may qualify as a resident for tuition purposes if the adult relative is a legal resident who has maintained legal residence in this state for at least 12 months immediately prior to the child's qualification, provided the child has resided continuously with



- such relative for the five years immediately prior to the child's qualification, during which time the adult relative has exercised day-to-day care, supervision, and control of the child.
- (c) The legal residence of a dependent child whose parents are divorced, separated, or otherwise living apart will be deemed to be this state if either parent is a legal resident of this state, regardless of which parent is entitled to claim and does in fact claim, the minor as a dependent pursuant to federal individual income tax provisions.
- (3) An individual shall not be classified as a resident for tuition purposes and, thus, shall not be eligible to receive the in-state tuition rate until he or she has provided such evidence related to legal residence and its duration as may be required by officials of the institution of higher education from which he or she seeks the in-state tuition rate.
- (4) With respect to a dependent child, the legal residence of such individual's parent or parents is prima facie evidence of the individual's legal residence, which evidence may be reinforced or rebutted, relative to the age and general circumstances of the individual, by the other evidence of legal residence required of or presented by the individual. However, the legal residence of an individual whose parent or parents are domiciled outside this state is not prima facie evidence of the individual's legal residence if that individual has lived in this state for five consecutive years prior to enrolling or re-registering at the institution of higher education at which resident status for tuition purposes is sought.
- (5) In making a domiciliary determination related to the classification of a person as a resident or non-resident for tuition purposes, the domicile of a married person, irrespective of sex, shall be determined, as in the case of an unmarried person, by reference to all relevant evidence of domiciliary intent. For the purposes of this section:

- (a) A person shall not be precluded from establishing or maintaining legal residence in this state and subsequently qualifying or continuing to qualify as a resident for tuition purposes solely by reason of marriage to a person domiciled outside this state, even when that person's spouse continues to be domiciled outside of this state, provided such person maintains his or her legal residence in this state.
- (b) A person shall not be deemed to have established or maintained a legal residence in this state and subsequently to have qualified or continued to qualify as a resident for tuition purposes solely by reason of marriage to a person domiciled in this state.
- (c) In determining the domicile of a married person, irrespective of sex, the fact of the marriage and the place of domicile of such person's spouse shall be deemed relevant evidence to be considered in ascertaining domiciliary intent.
- (6) Any non-resident person, irrespective of sex, who marries a legal resident of this state or marries a person who later becomes a legal resident, may, upon becoming a legal resident of this state, accede to the benefit of the spouse's immediately precedent duration as a legal resident for purposes of satisfying the 12-month durational requirement of this section.
- (7) A person shall not lose his or her resident status for tuition purposes solely by reason of serving, or, if such person is a dependent child, by reason of his or her parent's or parents' serving, in the Armed Forces outside this state.
- (8) A person who has been properly classified as a resident for tuition purposes but who, while enrolled in an institution of higher education in this state, loses his or her resident tuition status because the person or, if he or she is a dependent child, the person's parent or parents establish domicile or legal residence elsewhere shall continue

- to enjoy the instate tuition rate for a statutory grace period, which period shall be measured from the date on which the circumstances arose that culminated in the loss of resident tuition status and shall continue for 12 months. However, if the 12-month grace period ends during a semester or academic term for which such former resident is enrolled, such grace period shall be extended to the end of that semester or academic term.
- (9) Any person who ceases to be enrolled at or who graduates from an institution of higher education while classified as a resident for tuition purposes and who subsequently abandons his or her domicile in this state shall be permitted to re-enroll at an institution of higher education in this state as a resident for tuition purposes without the necessity of meeting the 12-month durational requirement of this section if that person has re-established his or her domicile in this state within 12 months of such abandonment and continuously maintains the reestablished domicile during the period of enrollment. The benefit of this subsection shall not be accorded more than once to any one person.
- (10) The following persons shall be classified as residents for tuition purposes:
 - (a) Active duty members of the armed services of the United States residing or stationed in this state, their spouses, and dependent children, and active members of the Florida National Guard who qualify under § 250.10 (7) and (8), ES., for the tuition assistance program.
 - (b) Active duty members of the Armed Services of the United States and their spouses attending a public community college or state university within 50 miles of the military establishment where they are stationed, if such military establishment is within a county contiguous to Florida.
 - (c) United States citizens living on the Isthmus of Panama, who have completed 12 consecu-

- tive months of college work at the Florida State University Panama Canal Branch, and their spouses and dependent children.
- (d) Full-time instructional and administrative personnel employed by state public schools, community colleges, and institutions of higher education as defined in § 1000.04, ES., and their spouses, and dependent children.
- (e) Students from Latin America and the Caribbean who receive scholarships from the federal or state government. Any student classified pursuant to this paragraph shall attend, on a full-time basis, a Florida institution of higher education.
- (f) Southern Regional Education Board's Academic Common Market graduate students attending Florida's state universities.
- (g) Full-time employees of state agencies or political subdivisions of the state when the student fees are paid by the state agency or political subdivision for the purpose of job-related law enforcement or corrections training.
- (h) McKnight Doctoral Fellows who are United States citizens.
- (i) United States citizens living outside the United States who are teaching at a Department of Defense Dependent School or in an American International School and who enroll in a graduate level education program which leads to a Florida teaching certificate.
- (j) Active duty members of the Canadian military residing or stationed in this state under the North American Air Defense (NORAD) agreement, and their spouses and dependent children, attending a public community college or university within 50 miles of the military establishment where they are stationed.
- (11) The Florida Board of Education and the Board of Governors shall adopt rules to implement this section.

History. - s.2, ch. 2002-270; s. 400, ch. 2002-387.

6A - 10.44 Residency for Tuition Purposes

The purpose of this rule is to establish consistent policies for the classification of students as residents for tuition purposes. The determinations of classification or reclassification shall be consistent to assure that students are classified the same regardless of the institution determining the classification.

- (1) The classification of a student as a Florida resident for tuition purposes by an institution or entity governed by Section 1009.40, Florida Statutes, shall be recognized by other public postsecondary institutions to which the student may later seek admission, provided that student has attended the institution or entity making the classification within the last twelve (12) months and the residency is noted on the student's transcript. Once a student has been classified by an institution or entity as a resident for tuition purposes, institutions to which the student may transfer are not required to re-evaluate the classification unless inconsistent information suggests that an erroneous classification was made or the student's situation has changed.
- (2) Non-U.S. citizens such as permanent residents, parolees, asylees, refugees, or other permanent status persons (e.g., conditional permanent residents and temporary residents), who have applied to and have been approved by the U.S. Bureau of Citizenship and Immigration Services with no date certain for departure shall be considered eligible to establish Florida residency for tuition purposes.
- (3) Nonimmigrants holding one of the following visas shall be considered eligible to establish Florida residency for tuition purposes. Persons in visa categories not listed herein shall be considered ineligible to establish Florida residency for tuition purposes.
 - (a) Visa category A Government official.
 - (b) Visa category E Treaty trader or investor.
 - (c) Visacategory G-Representative of international organization.
 - (d) Visa category H-1 Temporary

- worker performing professional nursing services or in a specialty occupation.
- (e) Visa category H-4 Only if spouse or child of alien classified H-1.
- (f) Visa category I Foreign information media representative.
- (g) Visa category K Fiancé, fiancee, or a child of United States citizen(s).
- (h) Visa category L Intracompany transferee (including spouse or child).
- Visa category N Parent or child of alien accorded special immigrant status.
- (j) Visa category O-1 Workers of "extraordinary" ability in the sciences, arts, education, business, or athletics.
- (k) Visa category O-3 Only if spouse or child of O-1 alien.
- (l) Visa category R Religious workers.
- (m) Visa category NATO 1-7 -Representatives and employees of NATO and their families.
- (n) Visa category T Victims of trafficking, who cooperate with federal authorities in prosecutions of traffickers, and their spouses and children.
- (o) Visa category V Spouses and children of lawful permanent residents.
- (4) Non-U.S. citizens who fall within the following categories shall also be considered eligible to establish Florida residency for tuition purposes:
 - (a) Citizens of Micronesia.
 - (b) Citizens of the Marshall Islands.
 - (c) Beneficiaries of the Family Unity Program.
 - (d) Individuals granted temporary protected status.
 - (e) Individuals granted withholding of deportation status.
 - (f) Individuals granted suspension of deportation status or cancellation of removal.
 - (g) Individuals granted a stay of deportation status.
 - (h) Individuals granted deferred action status.
 - (i) Individuals granted deferred enforced departure status.

- (j) Applicants for adjustment of status.
- (k) Asylum applicants with INS receipt or Immigration Court stamp.

The above Florida residency laws and rules are for informational purposes. There are additional state guidelines that govern the documentation required to prove Florida residency. Please refer to the Admissions Office at any campus for further information or consult the Web site at www.mdc.edu and click on prospective students.

Specific Authority 229.053(1), 240.325, ES., Law Implemented 240.1201, ES. History - New 10-6-92, Amended 10-17-2000.

International Student Admissions

Admission - Miami Dade College is authorized under United States Federal Law, Immigration and Nationality Act, §(101)(a)(15) (F or M) to enroll nonimmigrant alien students. In addition to following the regular admission procedures, international students are required to provide an English language placement test scores, such as TOEFL if a non-native speaker, proof of mandatory health insurance coverage, and official bank letter of financial resources to support education costs.

Registration and placement into courses and programs is dependent on English language proficiency, advisement and counseling, assessment/placement testing and course or program requirements. Academic transcript(s) of secondary school, college, university, technical and other post-secondary schools attended must be certified as official. Transcript(s) in languages other than English must include official certified English translations, authentic verifying statements and signatures.

Deadlines - International applicants should apply at least three months prior to enrollment at the college. International mail, transcript verifications, international money transfers, consular appointments, travel and housing arrangements and advisement/testing requirements all take a great deal of time and may cause delays. Applications for admission, including all admissions credentials and

TOEFL test scores (if available), must be received at least 90 days prior to the start of the term in which the applicant plans to enroll. The Test of English as a Foreign Language (TOEFL) is usually administered several times each year at centers in most countries of the world. Information and application forms for TOEFL may be obtained from international centers, by writing to TOEFL, Box 899, Princeton, NJ 08541, USA, or by visiting their Web site at www.toefl.org.

Deadlines for International Student Admissions

Spring Term	ct. 2
Summer Term Fe	b. 15
Fall Term Ma	v 26

Readmission - Readmission to the College for the international student requires submitting a new application for admission, new official transcripts of post-secondary education attempted since last attendance at Miami Dade College, official bank letter of financial resources to support education costs and a letter explaining the circumstances requiring readmission. Transcript(s) in languages other than English shall include official certified English transla-

tions, authentic verifying statements and signatures.

English Language Requirements - Miami Dade College courses are taught in the English language. The College will provide English language training for students who have insufficient English language skills. English language test scores determine placement into college courses. Students with TOEFL scores (or an equivalent score on other standardized tests) of 550 (213 on the computerized version or 79-80 on the Internetbased version) or higher are eligible to take the Basic Skills Assessment Test to determine placement in courses leading to an Associate degree. Alternative placement tests will be administered to students without TOEFL scores or with scores below 550 (213 on the computerized version or 79-80 on the Internet-based version). Students requiring English language training may need to attend additional semesters at the College in order to complete all associate degree requirements.

Financial Requirements - All international students must have sufficient funds to pay full college matriculation



and non-resident fees, textbooks, living expenses, transportation expenses, health Insurance coverage and other incidental expenses while attending college in the United States. Financial requirements are included with the application for admissions form. Documentary evidence of means of financial support must be provided to the College to be issued a Certificate of Eligibility (SEVIS I-20). This evidence is also required by the American Embassy or Consulate when applying for a student visa to enter the United States.

Students must have these funds available when they register for classes each term. College financial aid is not available to students on visa. See the "Fees" section in this catalog for details concerning matriculation, non-resident and other fee requirements. (Page 23)

Employment - Visa students in the United States are not allowed to be employed outside the College, unless permission has been granted by the United States Citizenship and Immigration Services (USCIS). On-campus employment may be authorized by the International Student Services advisors.

Health and Accident Insurance Certificate - Prior to registration, international students must purchase the mandatory health insurance policy available in the International Student Services Office. This insurance coverage must continue for the entire period of enrollment at the College.

Duration of Status - International students on a visa are admitted to the United States for the entire time estimated for them to complete their approved program of study as indicated on the SEVIS I-20. Students must fulfill the following conditions to maintain Duration of Status: pursue a full course of study at the educational institution they are authorized to attend, make normal progress, keep a current passport that is valid for at least six months, maintain a valid SEVIS I-20 and cannot accept off-campus employment without USCIS approval.

Arrival in Miami - International students should arrive in Miami approximately 30 days before the beginning of the first term of enrollment based upon the program start date on the I-20. Students need the time to obtain housing, provide a local address to the College, participate in new student orientation, take English language and placement assessment tests, obtain advisement and counseling and register for courses.

Housing in the Community -Miami Dade College does not provide or supervise student housing. Each college campus has an International Student Advisor to assist students to locate housing. International students must bring sufficient funds to pay three months' rent in advance (first and last month's rent, plus a security deposit equal to one month's rent). The estimated expense information provided with the application for admission form provides important details.

Transportation - International students must provide their own transportation or use public transportation (buses or rail) to travel between home and the campus(es).

School Transfer - Completion of a degree program at the designated educational institution is recommended. International students who wish to transfer to another school must officially do so by requesting a release of their SEVIS record to the school they wish to transfer to and by providing an admission letter. That institution will notify Immigration of the student's transfer of schools. A student who transfers schools without completing this process is considered to be out of status.

Passport Validity - International students on a visa must have and maintain a current passport valid for a period of not less than six (6) months into the future. It is the student's responsibility to meet this requirement.



Full-Time Enrollment – International students are required by USCIS regulations to be enrolled full-time. Student(s) should make satisfactory progress in their approved program each term, otherwise the continuation of study on a student visa may be jeopardized and the Certificate of Eligibility (SEVIS I-20) rescinded. See Standards of Academic Progress in "Academic Regulations" section. (Page 40)

United States Department of Homeland Security Laws and Regulations - It is the student's responsibility to comply with all non-immigrant alien requirements as stated under the United States statutes I.N.A. 101(a) (15)(F); I.N.A. 214(m); IIRIRA 641. The College is required to report to the Department of Homeland Security international students who:

- 1. Do not register at the College by the first day of the semester.
- 2. Do not carry a full course of studies.
- 3. Do not attend classes to the extent normally required.
- 4. Become employed without authorization.
- 5. Terminate their attendance at the College.

Visa Student Advisement - Advisors are available at each campus to advise international students concerning academic programs and course objectives. Visa students should contact the International Student Services advisor each term for a review of the student's progress and for the updates and compliance of immigration regulations.

Admission to Continuing Education (Non-College Credit) Programs and Courses

Miami Dade College, through its Continuing Education Program, offers students opportunities for enrollment in Continuing Workforce Education Training and recreation and leisure courses.

Admission requirements are established by the nature of the particular program or course. A student who plans to register only for continuing education non-college credit courses need not apply for regular College admission.

Continuing **Education Courses - These courses** are for those students who have had prior employment in jobs related to the enrolled course or are presently employed in a career related to the Continuing Workforce Education course. Students enroll in the courses to upgrade their current skills, for re-employment purposes or to enhance their current employability. For purposes of state certification or registration and updating to meet various professional organization requirements, the College student registration system allows for the award of Continuing Education Units (CEUs) on the student's transcript. These units may be awarded when a Continuing Workforce Education course is completed and the course has been designated for the award of CEUs. Ten contact hours of classroom instruction equal one CEU.

B. Recreation and Leisure Courses – These non-credit courses are self supporting with the total program costs being paid by the students who are enrolled. There are no state or College funds provided to support these activities. The College offers these courses on demand from students and community, as space is available. The range of activities and courses are unlimited and are determined by the students enrolled. For further information please consult the Web site at www.mdc.edu/ce

Fees and Refunds

Fees are contingent upon approval of the District Board of Trustees and are subject to change. Special fees may also apply. Important note: Tuition and fee rates are determined annually by state and Board of Trustee processes. They almost always change from year-to-year. The best way to determine current tuition and fee rates is to check on the Miami Dade College Web site, www. mdc.edu, or to check at the Admissions & Registration Office at any MDC campus. The fees listed below are an example – for planning purposes only – of rates for the 2008–09 year only.

A. Registration Fees 2008-09 -College Credit Courses

Florida Residents*
 Matriculation
 Total.......\$78.24 per credit

Workforce
hese courses
ho have had
so related to
are presently
elated to the
cation course.
es to upgrade
e-employment
their current

2. Non-Florida Residents*
Matriculation
Total. \$282.27 per credit
*See Florida Residency section for
definitions

B. Registration Fees 2008–09 Vocational Credit Courses

1. Florida Residents*
Matriculation
Total. \$64.13 per

(Special fees may also apply)
2. Non-Florida Residents*

Total \$256.48 per vocational credit

vocational credit

*See Florida Residency section for definitions

Service fee includes the following fees: scholarship and capital improvement.

Upper-division

- 3. Florida Residents*
 Total. \$86.75 per credit
- 4. Non-Florida Residents*
 Total...... \$407.78 per credit

C. Special Fees and Charges

- 1. Admission Application fee a \$20.00 non-refundable college credit application fee is charged for processing a student's first application.
- Late Registration fee a \$50.00 non-refundable fee charged to students registering for college credit on or after the first day of classes.
- 3. Full cost of instruction out of state fee charged for students repeating courses more than allowed by state law (This is on a third or subsequent attempt).
- Examination fee a \$15.00 per credit non-refundable fee is charged for institutional credit by exam.
- Special course fees variable fees are charged in certain courses to cover the use of special supplies, materials, equipment or facilities. Such fees are listed on the student schedule.
- 6. Special fees in music courses that offer private lessons range from \$60.00 to \$110.00.

D. Registration Fees – Continuing Education Non-Credit Courses

1. Continuing Workforce Education (CWE) - Fees are variable and calculated to cover the cost of the course.



 Recreation and Leisure Courses - Fees are charged to cover all expenses for providing the course.

Fee Policy for Repeated Courses

The Florida legislature (ES.) 1009.28 and 1009.285 has enacted policies affecting the assessment of fees for community college students who repeat a course due to withdrawal or failure. The fee for a third attempt of the same course is equal to 100 percent of the cost of instruction. Since state law prescribes student fees to equal 25 percent of the cost of instruction, the fee for a repeated course is approximately four times that of an initial attempt.

State law and College policy allow one-time exceptions to the increased fees for courses. Students assessed such a fee should consult an advisor for more information.

Refund Policy

Refunds of registration fees are made only if the student drops or withdraws from a course(s) and the drop is confirmed within the stated refund deadlines. For more information on deadlines, students should refer to the sections on "Refund Deadlines" below.

Students withdrawn from a course due to cancellation of that class are entitled to a full refund of registration fees. Students who are withdrawn from a course or courses for disciplinary reasons are not entitled to a refund. All students who maintain bank accounts can also pay course fees by means of e-check (electronic check). The e-check payment method is rapid and secure and can be accessed via the MDC Web page, www.mdc.edu. Miami Dade will accept a maximum of \$21,000 of foreign fund checks, for any one student, for any year, July 1 to June 30. Any bank fees charged for processing foreign fund checks will be paid by the student. A student who remits a United States bank check where the funds originated in a country other than the United States will be required to show his or her valid passport before receiving any excess funds.

1. Refund Deadlines – College Credit and Vocational Courses

Refund deadlines for each term are

published in the Academic Calendar. The dates vary, so students should be sure to check the deadlines. The Academic Calendar is found on pages 3 and 4 of this catalog, and copies are available from the Registrar's Office or on our Web site at www.mdc.edu. Weekday classes refer to classes meeting Monday through Friday. The number of days a student has to receive a 100 percent refund when withdrawing from courses is based on the length of the term, not individual course days.

This is an estimated refund schedule for weekday classes, for a 100 percent refund of applicable matriculation, tuition and special class (lab) fees:

For a Term	Student Has This
With This	Many Class Days
Number	to Make an Official
of Weeks	Withdrawal to Receive
	a 100 percent Refund
1 - 3	1
4 - 5	2
6 - 10	3
11 - 14	4
15 - 16	5
17 - 20	6
21 - 23	7
24 - 26	8
27 - 29	9
30 - 32	10

A procedure exists for handling specified exceptions to the refund policy. See the "Petitions Procedure" in the *Students' Rights and Responsibilities Handbook*.

2. Refund Deadlines - Continuing Education Courses

For one-day courses and workshops, the student must have paid in full and must make an official withdrawal at least one day prior to the day of class. For courses meeting for two or more days, the student must have paid in full and must make an official withdrawal at least one day prior to the second class meeting.

A procedure exists for handling specified exceptions to the refund policy. Students should see the Continuing Education chairperson on their campus.

Payment Policy

- 1. All fees are due and payable in full at time of registration. Fees and charges are subject to change without notice. Cash is not to be sent by mail.
- 2. Payment of Fees by Check Checks may be remitted to Miami Dade College

for payment of fees owed. Check payments are also accepted via the MDC Web page. All checks accepted in payment for fees must be drawn on a United States bank and must be payable to the College. If a student submits a check exceeding the amount owed to the College, he or she will not get cash back. If the overage is less than \$250, then the College will issue the student a check, but the student will have to wait between nine and 20 business days. If the overage is more than \$250, the check will not be accepted and the student will have to submit a new check.

Miami Dade College will accept a maximum of \$21,000 of foreign fund checks, for any one student, for any year, July 1 to June 30. Any bank fees charged for processing foreign fund checks will be paid by the student. A student who remits a United States bank check where the funds originated in a country other than the United States will be required to show his or her valid passport before receiving any excess funds.

- 3. Payment by Credit Card Miami Dade College will accept MasterCard or Visa for payment of course fees and for purchases in the campus bookstore (\$15.00 or more). Charge card payments are also accepted by mail or telephone, and via the MDC Web page, www.mdc. edu. Refunds for fees paid by credit card will be made by a check payable to the student unless the student has an open debit account (applications are available at any campus Student Life Office).
- 4.Paymentby an Employer, Company or Other Agency Prospective students whose registration fees will be paid in part or in full by an employer or other company or agency outside of Miami Dade College should have these arrangements approved by Student Financial Services at least two weeks prior to the expected day of registration.

For further information, contact Student Financial Services.

Florida Pre-Paid Tuition Program

The Florida Pre-Paid Tuition Program covers only defined matriculation, scholarship and capital improvement fees. Students are required to pay any special fees and other local service fees, which include student service fees and technology fees.

Financial Aid Information

Student Financial Aid

Financial aid is any grant, scholarship, loan or employment offered to assist a student to meet college expenses. Funding is usually provided by federal and state agencies, foundations, corporations, private donors and/or the College itself. Most financial aid is based on financial "need" as determined by the federal government's system of needs analysis.

The amounts and types of financial aid that a student can receive are determined by federal, state and institutional guidelines. Financial aid is usually offered in "packages," which may consist of a combination of grants, loans, employment and scholarships. Grants and scholarships are regarded as a "gift" and need not be repaid. Loans are usually offered at low interest rates and can be repaid over an extended time period. When aid is offered in the form of employment, the student is paid an hourly rate for work performed (usually minimum wage).

Students who wish to be considered for financial assistance offered by or through the College, including short-term tuition loans, must complete and submit the FAFSA (Free Application for Federal Student Aid, see "How to Apply" on page 25). The availability of certain types of financial aid is dependent upon the student's immigration status. Financial aid is available for approved and/or certified credit and vocational certificate programs of study.

Philosophy of Financial Aid

The objective of the student financial aid program at Miami Dade College is to provide financial assistance to students who, for lack of funds, would be unable to attend the College. The College stands ready to help students who are willing to help themselves and whose families will contribute as their income and assets permit. Well-trained financial aid officers are available to counsel and assist the student and parents seeking additional or alternative sources of aid.

Parents and prospective students are strongly encouraged to contact the Financial Aid Office at any one of our campuses to obtain additional information regarding financial aid opportunities.

What is Financial Need?

Financial need is defined as the difference between the cost of education and the amount the student (and parents) can be expected to contribute to offset educational expenses. Financial need is based on federal regulations and information provided by the student and/or student's family on the Free Application for Federal Student Aid (FAFSA, see below).

How to Apply

To be considered for most types of financial assistance, a student must complete the Free Application for Federal Student Aid (FAFSA). The FAFSA is available online at www.fafsa.ed.gov, at local high schools or any campus Financial Aid Office. The application process begins Jan. 1 for the academic year that begins in August. Applications completed on the Web are more accurate and have a faster turnaround. The results of the federal analysis are transmitted electronically to the College and are also sent to the student in the form of a Student Aid Report (SAR) via e-mail or regular mail.

Students should carefully read all of the instructions received with the SAR and, in a timely manner, provide information to the College or to the Federal Processor, if the information originally submitted has to be corrected. Students do not need to bring their SAR to the Financial Aid Office, unless specifically requested by the Financial Aid Office.

Miami Dade College reserves the right to request supplemental information from parent(s), guardian(s), spouse and/or student as required by the financial aid staff to assess the need of the student. Students who are eligible to receive outside educational assistance such as Veterans Administration benefits and vocational rehabilitation assistance

are expected to apply for this assistance through the appropriate agencies.

Application Priority Deadline

The College priority deadline for filing for need-based financial aid is March 15, for awards that will start in August of that same year. Students should plan on submitting the FAFSA during early or mid-February to ensure that it is received and processed by March 15. Applications received after this deadline will be processed based on the availability of funds at the time the file is evaluated.

Verification

The Federal Processor selects 30 percent of the financial aid applicants for verification, to determine the accuracy of the information provided on the FAFSA. The College may also select additional applications for verification if it has reason to believe an application is incorrect or for which it has conflicting information.

If selected for verification, a student will be asked to provide additional information such as tax returns, a Verification Form, documentation of independent status, etc. Student files will not be pro-





cessed until verification is complete and all corrections have been made.

Reapplying

Financial aid is not automatically renewed each year. To be considered for financial assistance from one year to the next, all students must reapply. Since the amount and type of aid are based upon the family's financial situation each year, it is quite possible that financial aid awards may change from one year to the next.

Basis on Which Financial Aid is Granted

The amount of financial assistance a student receives is generally determined by the need of the applicant, the availability of funds from federal, state, institutional and private sources, as well as the order in which the applications were completed (first-come, first-served basis).

Students receiving federal financial aid are required to achieve and maintain an acceptable level of academic progress to receive financial aid. Specific eligible categories are posted on the Financial Aid Web page, and information is available in the Financial Aid Office.

Who Qualifies for Financial Aid

To be considered for most needbased assistance, you must meet the following basic eligibility requirements:

- · Demonstrate financial need
- Be a U.S. citizen or eligible noncitizen
- Be registered with selective service, if required
- Not be in default on a previous student loan or owe a repayment on previous federal financial aid received at any institution
- Be enrolled at least half-time in an eligible program of study (some aid is available only to full-time students)
- Maintain satisfactory academic progress.

Additional requirements may apply depending on the financial aid awarded to you.

Refunds and Repayments

Federal regulations mandate that financial aid recipients who drop all

courses or officially withdraws from the College before completing 60 percent of their enrollment period for the semester may be liable to repay a portion of the federal aid disbursed. The amount of the return is calculated using a federal formula that depends on the date the student ceased attendance. A student who owes a repayment will not be eligible for additional financial aid until the repayment is made in full.

Miami Dade College Student Assistance Programs

Scholarships and Grants

Scholarships and grants are available annually for students who require additional financial assistance beyond that received from federal and state sources. College funds for scholarships and grants are provided by businesses, clubs and organizations, agencies and from individual friends of the College through the Miami Dade College Foundation Inc. The primary criterion on which grant and scholarship recipients are selected is financial need. However, academic achievement is strongly considered during scholarship recipient selection. A limited number of grants are made available annually for service to the College and to students who may not be eligible for other types of financial assistance. Students who complete the FAFSA and the MDC Institutional Grant Application will be considered for a College grant. Students must complete an MDC Scholarship Application online at www. mdc.edu/scholarships to be considered for a scholarship. Scholarship candidates may be required to submit additional materials, information and personal references.

Short Term Loans

The Short Term Loan is available to students who are unable to pay the full amount of their schedule by the tuition payment due date. These loans are repayable before the end of the term in which the money is borrowed or upon withdrawal from the College. To apply for this loan visit any campus Financial Aid Office with a copy of your class schedule.

Tax Help for Educational Expenses

The Taxpayers Relief Act of 1997 offers several tax credits and deductions for educational expenses. For more information regarding these programs, go to the IRS Web page at: www.irs.gov/hot/not7-60.html.

Veterans Administration Assistance

The Veterans Benefit Program is designed exclusively for providing educational assistance to veterans of the United States armed forces and eligible dependents. Miami Dade College is an approved institution for the education and training of veterans and eligible dependents under all public laws now in effect. The College assists veterans and eligible dependents wishing to receive V.A. educational benefits. Personal and academic counseling, registration fee deferments, tutorial assistance and V.A. Work-Study programs are available. Veterans are encouraged to contact any campus Registrar's Office to obtain further information.

Other Sources of Financial Assistance

Benefits for the Disabled - The state of Florida provides funding for the purchase of special equipment and services for all persons with disabilities enrolled in public postsecondary institutions.

Contact the campus coordinator of Disabled Student Services.

Accessing the Financial Aid Office

- Counseling Financial Aid counselors are available at all MDC campuses, on a walk-in basis to assist students.
- Online You can access the Financial Aid Office Web page at www.mdc. edu/financial_aid/ to obtain more detailed information on financial aid programs, procedures and to check the status of your application and financial aid award.
- E-Mail Communications Regardless of the campus you attend, you can communicate with the Financial Aid Office via e-mail at: finaid@mdc.edu

Student Sprvices

STUDENT SUPPORT SERVICES

- Advisement 29
- 29 Degree Audit
- Basic Skills Assessment Program 29
 - 30 **Bookstore**
 - Career Services 31
 - Class Schedules 31
- College Level Academic Skills Test (CLAST) 31
 - Library and Media Services 32
 - 32 New Student Center
 - Registration and Records 32
 - Services for Students with Disabilities 32
 - Student Health Services 32

INFORMATION AND POLICIES

- 33 AIDS Policy
- Automobiles on Campus 33
- Family Educational Rights and Privacy Act (FERPA) 34
 - Grievance Policy 35
 - 35 Housing
 - 35 Identification
 - Students' Rights and Responsibilities 35
 - Safety and Security 35













CAMPUS ACTIVITIES

Clubs and Organizations 35

Intercollegiate Athletics 35

Student Government Association 36

> 36 Student Publications



Student Support Services

Advisement

The Academic Advisement/ Counseling Department assists students in selecting courses and programs of study to satisfy their educational objectives. A staff of full-time advisors representing diverse educational and professional backgrounds is available to provide this service.

All students are encouraged to meet with an advisor after gaining admission to the College. In order to best take advantage of the consultation, this appointment should occur after assessment testing and before registration. Returning students with declared majors should seek advisement from faculty in their major department. At that time, the student and the advisor may chart an appropriate choice of courses based on the student's academic performance, results from the Basic Skills Assessment Test (CPT, SAT, or ACT), the student's chosen program and outside commitments.

Students are especially encouraged to consult with an advisor in the term preceding the term of expected graduation. Conferring on graduation eligibility at this time may be crucial to a student's success in meeting his or her goal. Advisors are also available to assist students in making career choices.

During enrollment at Miami Dade College, students are encouraged, and sometimes required, to see an advisor when they encounter academic problems or contemplate a change in educational goals. In addition to helping students chart their educational and professional careers, advisors work with students to resolve problems affecting academic performance. Students may be referred for testing or to community agencies when appropriate, as a means to aid decision-making.

Degree Audit

The Degree Audit is for advisement purposes only. The catalog should be consulted for program/degree requirements.

Basic Skills Assessment Program

In an effort to provide more effective educational services for students, the College has established a Basic Skills Assessment Program. Through this program, the College can identify the student's academic strengths and weaknesses in reading, writing and mathematics.

Results from the assessment are used to advise students on how best to take advantage of their strengths. Regarding weaknesses, assessment results are used to guide a student into courses designed toward improvement in the respective discipline.

MDC administers the ACCUPLACER/ Computerized Placement Test (CPT) free of charge to MDC students. Students may schedule a convenient time to take this test. The CPT is not timed, and it consists of three sections: reading comprehension, sentence skills and elementary algebra. Arithmetic or college-level math subtests may also be administered.

The Florida Board of Education requires that first-time-in-college students who are degree-seeking provide scores of an entry-level placement examination. The rule specifies that a student has to submit a CPT, SAT or ACT to meet this requirement. If a student presents valid SAT or ACT scores that meet or exceed the state minimum score requirements, he or she does not have to take the CPT. All scores presented must have been obtained within the past two years. Note: Beginning with the 2007-1 fall term and at least through the 2008-1 fall term, the state of Florida is allowing MDC to use FCAT scores to exempt students from placement testing as part of an FCAT Pilot To find out what minimum scores a student needs to be excused from taking the CPT, or for other reasons why a student may not be required to take the CPT, students are asked to call the campus Testing Department. This information may also be acquired by visiting the Testing Information Web site, accessed from MDC's Homepage (www.mdc.edu) by clicking on "Current" or "Prospective Students," and then, "Testing Information." If a student does have to take the CPT, he or she should take the Practice-CPT (known as "PASS") first. Taking the PASS will give the student a better idea of what to expect on the CPT.

Students whose English-language proficiency is insufficient to be tested on the CPT will be given the College-approved alternative for placement into appropriate English as a Second Language courses. Upon completion of the English instructional curriculum, students will take the required CPT for further course placement.

If a student's scores on one or more of the subtests of the CPT fall below minimum passing scores established by the Florida Board of Education, he or she must enroll for at least one course in the College Preparatory program. In accordance with Florida law, students may use adult basic education, adult secondary education or private provider instruction as an alternative to traditional college preparatory instruction.

Further evaluation may be conducted in classes, and course placement changed, based on the results of the additional assessments. If a student meets a minimum score but is identified as likely to benefit from a preparatory course, he or she may enroll in such a course.

The state requires agencies offering Post-secondary Career Certificate Education programs (VCC) to assess the basic skills level of students entering programs of 450 or more contact hours. MDC offers the Tests of Adult Basic Education (TABE) for these vocational students. The minimum passing scores vary among the vocational programs, so a student must check with his or her advisor for these scores. A student must take the TABE within the first six weeks of admission into the program. Academic support labs are available to prepare students to take the TABE. If a student is enrolling in an Adult General Educational program, he or she also must take the TABE.

Adult Education students without English proficiency are given the College-approved alternate for place-

WWW.MDC.EDU

ment into appropriate Adult English for Speakers of Other Languages (ESOL) or English Literacy for Career and Technical Education (ELCATE) program courses. Upon completion of the English instructional curriculum adult education students transitioning to career certificate (VCC) programs will take the required TABE to determine program eligibility.

If a student has any questions regarding the TABE, including exemption from taking the test, he or she should contact the campus Testing Department. This information may also be acquired by visiting the testing information Web site, accessed from MDC's homepage (www. mdc.edu) by clicking on "Current" or "Prospective Students," and then, "Testing Information."

Students seeking entrance into MDC's School of Justice are exempt from the TABE testing requirement, but they are required to pass the Florida Basic Abilities Test (F-BAT). If a student has any questions regarding the F-BAT, he or she should contact the School of Justice. Students may also visit the F-BAT Web site, accessed from MDC's homepage (www.mdc.edu) by clicking on "Campuses," then "North Campus," and then, "F-BAT."

Bookstore

Bookstores are located on all of the campuses. Hours vary during the term and at each location, with longer hours in the early weeks of the semesters. Here are the locations and the phone numbers:

Carrie P. Meek Entrepreneurial Education Center: 305-237-1991, Room 1215. When closed visit the North Campus bookstore.

Hialeah Campus: 305-237-8806, Room 1113, located near Public Safety.

Homestead Campus: 305-237-5042/5043, located in Building F, Room F102, next to the Cafeteria.

InterAmerican Campus: 305-237-6019/6696, located in Building 1000, Room 1114, across from the Library.

Kendall Campus: 305-237-2361/2063, located in Building 8, Room 8105, across from the Cafeteria and pool.

Medical Center Campus: 305-237-4178, Room 1180, located between Buildings 1 and 2.

North Campus: 305-237-1247, Room 4101, Building 4000, located just inside the breezeway and the entrance to the Cafeteria.

West Campus: 305-237-8953, located on the first floor.

Wolfson Campus: 305-237-3236, Room 2102, Building 2, located beside Fourth Street and near the Cafe.

The best time to purchase textbooks for an upcoming term is at the beginning of classes. If a student has a schedule and/or syllabus, he or she can purchase textbooks before the class begins. When going to purchase textbooks, a student should bring his or her schedule as the bookstore is organized alphabetically by course abbreviation and by reference number (6-digit code identifying the class). If a student cannot locate textbooks, the professor's name or reference number on the shelf tags, the student should ask for assistance at the customer service desk. Also, the store's textbook manager and sales staff can assist in answering questions. If a student purchases a textbook before attending class and later finds that the textbook is incorrect, it can be returned if the student has the original cash register receipt. The textbook must also be in the original shrink-wrap (if applicable), and in the exact condition as when purchased. The refund policy and dates for each term are posted in all of the bookstores and on the cash register receipts. If a student needs any information concerning the refund policy and dates, the student should contact the campus bookstore at the phone number listed above. During the refund periods, new and used textbooks will be fully refundable when returned in the same condition as purchased. If a textbook is not in the same condition as originally purchased, the textbook will be returned at 25 percent markdown from the original price. If the student does not have the original receipt the book can be sold back to the bookstore at buyback. Shrink-wrapped packages are non-refundable if opened; however if the student has all of the components of the package then a return may be done for a 25 percent markdown from the original price.

Any textbook purchased during the last week of classes or during final exams is not fully refundable, but may be sold back at buyback. If a student has textbooks which are no longer needed, he or she can sell the books back to the bookstore at anytime of the year. The price for the buyback textbooks will



vary, depending on the level of demand for the upcoming term and the inventory in the store. If the bookstore has a need for a textbook, a student can receive up to 50 percent of the new price whether it was purchased new or used. Another feature the bookstore offers is online ordering of textbooks at www.efollett.com. Students can either log in directly to www.efollett.com or upon registering for a class on the MDC Web site, proceed through Book Now with a link to efollett.com to purchase the textbooks required for their class. By selecting the state, institution, and classes, as well as purchasing information, a student may order textbooks and have them delivered directly to his or her home or have them ready for pick up at the bookstore on campus.

Career Services

The mission of Career Services at Miami Dade College is to assist students with their career planning, transfer and employment needs.

Career Services serves students who are undecided about their academic programs as well as those seeking career direction and vocational counseling. Through the use of career assessments and occupational information students are provided with assistance in clarifying their occupational and educational goals. Career related events, including seminars and career decision-making workshops, are scheduled throughout the academic year.

Career Services also provides information on transfer options and transfer assistance to students wishing to continue their education upon completion of their programs at the College. Students are able to meet with admission representatives from colleges and universities during regularly scheduled visits to Miami Dade College campuses and during the annual College Fairs. Transfer resources, including college catalogs, scholarship information and information on the College's Articulation Agreements with local, in-state and out-of-state institutions are also available through Career Services.

Additionally, Career Services assists students and alumni with job readiness through a comprehensive employability skills program which includes workshops, seminars and job-shadowing opportunities. Assistance with the job search is provided via annual Job Fairs and regularly scheduled employer on-campus recruitment visits as well as through access to employment and internship opportunities via the College's online employment system.

Class Schedules

Although the College tries to accommodate every student through a wide array of course offerings, no guarantee can be made that a student will be able to get his or her desired class schedule. Registering early is the student's best method for achieving a schedule compatible with individual needs. Once registered, the schedule of a student's classes is printed. This document also includes financial information about tuition/fees due or paid. It is advised that the student keep this schedule handy for the entire term. Students often need to refer to their schedule for important information.

College Level Academic Skills Test (CLAST)

In Florida, the state Board of Education maintains "minimum and uniform standards of college-level communication and computation skills" as a means of ensuring quality in higher education systems. Before a student can receive an Associate in Arts degree or advance to the upper-division of the State University System of Florida, he or she must demonstrate competence in English language, reading and mathematics.

Students can demonstrate competence in these skills by achieving minimum grade point averages in specific college level courses, or by achieving scores on the SAT or ACT which meet or exceed the minimum requirements. (The Advisement Office can tell students what the current minimum GPA and scores are.) If a student's GPA (or SAT or ACT score) does not meet the minimum requirements, he or she can take the College-Level Academic Skills Test (CLAST). Passing scores on the various subtests are determined by the state

board and vary according to when a student first took the examination. Current passing scores are: Reading, 295; English, 295; Mathematics, 295 and Essay, 6.

Students are permitted to take the CLAST only after they have completed 18 college credits. For the English language skills, reading and essay subtests, students must have successfully completed ENC 1101. For the mathematics subtest, students must have passed one college-level mathematics course (excluding MAT 1033, QMB 2100, and MTG 2204). If a student has passed all portions of the entry-level placement examination (the CPT), then he or she does not have to pass ENC 1101 (or a math class) before taking the CLAST.

Students may use CLAST alternatives to satisfy the graduation requirement. Note that successful CLAST scores or an optional approved examination are necessary for admission into a College of Education program and other MDC baccalaureate programs.

Students may retake any CLAST subtest until a passing score is obtained, but must follow CLAST guidelines before retaking a subtest for the third (or higher) attempt. If a student has taken and failed any subtest of the CLAST at least four times, a request for a waiver for that subtest may be initiated. Students should contact the Advisement Office for details. Disabled students may also request waivers for CLAST subtests. These students should see the ACCESS Department for details.

Students who do not meet the CLAST minimum score requirements on the four subtests, or who fail to meet one of the alternative requirements; will not be awarded the Associate in Arts degree. However, students who satisfy three of the four subtests may, if otherwise qualified for admission, enroll for up to 36 semester credits in upper-division courses at public universities in Florida. Once 36 credits are achieved, the student is required to satisfy the fourth subtest.

The CLAST is only offered three times per year, and Florida requires students to register by the deadline set for each test. Advisement and Counseling offices, as well as Testing Departments, have information about how and when to register for the CLAST. There is a computer version of the CLAST (CATCLAST) which may be taken at addi-

32 WWW.MDC.EDU

tional times, but there is an additional cost as well. The CLAST is available by computer at North, Kendall, Wolfson and InterAmerican campuses, but the essay subtests can only be taken on the three regular test dates. The fee for the CAT-CLAST is \$30.00; the paper-and-pencil version is free for MDC students. Students may schedule appointments to take the CAT-CLAST according to the guidelines published by their Campus Testing Department.

If students have any questions regarding the CLAST, they should contact the campus Testing Department. Students may also visit the Testing Information Web site, accessed from MDC's Homepage (www.mdc.edu) by selecting Current or Prospective Students, and then, Testing Information.

Library and Media Services

The six Miami Dade College campuses, including the two outreach center libraries, have a combined book collection of more than 325,000 titles. The libraries subscribe to hundreds of periodical titles available in print, and have access to thousands of online full-text periodicals. Access to these databases is available twenty-four hours a day, seven days a week, from any computer that has an Internet connection.

The libraries offer a variety of services beyond the traditional scope of lending materials and providing in-house reference. Additional services include education using information resources for research, classroom instruction and an online reference service. The College libraries actively participate in arrangements with other libraries throughout the state and nation to secure information resources not in the Miami Dade collections.

The campus Media Services Departments have more than 35,000 media titles in a variety of formats, including the latest in multimedia resources and technology, all of which are available to students and faculty. The Media Services Departments also support the College's technology needs for audio-visual presentations.

New Student Center

The New Student Center is the first point of contact for prospective and new students who are attending college for the first time or who are transferring from another institution. Prospective students are encouraged to meet with a pre-admission advisor to obtain information on degree and vocational program options, admissions requirements, assistance with the admissions process and the steps a new student will take from admission through course registration.

The New Student Center conducts orientation sessions prior to each semester. All new degree-seeking students are required to participate in an orientation program. The objective of the new student orientation sessions is to provide practical information to assist new students in transitioning to college life. The New Student Center at the Medical Center Campus assists students as they transition from taking general education requirements at the other campuses to being admitted to programs at the Medical Center Campus.

Registration and Records

Registration is held each term on the dates scheduled by the campus Registration Office. Students may register for courses in person at the Registrar's Office. Students may also register via the Internet by going to the Current Students section of the College's Homepage (www.mdc.edu). The Registrar's Office is the designated custodian of all official academic records. The office maintains official student transcripts, processes final grades at the end of each term and updates student records with address, name and approved grade changes. It provides both official and unofficial copies of student transcripts to students, or to institutions or agencies upon request from students. The College also participates in the electronic transmission of student transcripts (to other participating institutions). Transcripts can be ordered online by students through the MDC Web site.

Services for Students with Disabilities

ACCESS - A Comprehensive Center for Exceptional Students' Services

Federal and state laws and regulations guarantee students with disabilities equal access and equal opportunity in post-secondary education. The College has developed special support services and accommodations to assist students with disabilities in achieving equal opportunity. These services include, but are not limited to, assistance (with registration, advisement and financial aid), service accommodations (readers for blind persons, interpreters for deaf students and note takers), and technological aids (adaptive technology, special equipment and special testing accommodations). Tutoring and/or specialized classes may be available. Florida law enables the College, in certain instances, to waive entrance and graduation requirements.

A student with a disability may qualify for a substitution of specific courses, or for the waiver of a subsection of the CLAST or TABE tests. Students may find out about additional services (and eligibility for these) by calling the main number for each campus and asking for the department which provides services for students with disabilities.

Student Health Services

Miami Dade College is not legally or financially responsible for medical care and does not provide the services of a physician on any campus. The Fire Department Rescue Service provides first aid emergency health service.

At the time of application, each student should provide the name of a person to contact in an emergency on the appropriate line of the application form. If that contact person changes while the student is attending the College, the student should update that information with the Registrar's Office. Students should carry emergency information at all times, as well as any medical insurance card(s).

Information and Policies

AIDS Policy

Miami Dade College will offer students and employees diagnosed as HIVpositive the same opportunities and benefits offered to other students and employees. These include access to educational programs, advisement and counseling services, employment opportunities and financial aid. The College is committed to a policy of non-discrimination in the conditions and privileges of employment for those having been diagnosed as HIV-infected, but who are otherwise qualified and physically capable of performing assigned duties and responsibilities. Except where coursework or employment requires involvement with body fluids, no special policies, procedures or rules will be imposed on students or employees diagnosed as HIV-infected that will limit or restrict the students' participation in College activities, programs or the employees' rights to employment, use of benefits or livelihood.

The College has implemented an HIV education program for students and employees, and will adopt such work and educational procedures as necessary to maintain and utilize universal disease control procedures as defined by the Centers for Disease Control (CDC).

The individual campuses will be responsible for the initial management of students and employees who are identified as HIV-positive. Each campus president shall appoint a campus task-force responsible for overseeing the appropriateness of this management and all campus HIV education activities.

Automobiles on Campus

Student and faculty parking areas are designated on each campus. The MDC ard may be required for access to a lot or a garage. Students must have the MDC parking sticker affixed to their car's rear window or bumper. The parking sticker is issued upon acceptance to the College. Parking stickers are good for one year. Updated stickers are available from the Student Life Office on each campus.

Miami-Dade County and municipal police enforce traffic and parking regulations on and around each campus. Citations are issued for traffic and parking irregularities; violators may be towed at their own expense.

Although campus security officers patrol parking areas, the College assumes no responsibility for the care or protection of a vehicle or its contents at any time. If a vehicle must be left on campus overnight, students should notify the Campus Security Office.

Visitor parking policies vary by campus, so visitors should phone ahead for information. Visitors parked in unauthorized spaces may be subject to traffic citations and towing at the owner's expense.

Kendall Campus has a multi-story parking facility with more than 700

student, staff and visitor parking spaces, as well as a number of parking lots. The parking garage is open Monday through Friday from 6 a.m. to 11 p.m. and Saturday from 6 a.m. to 6 p.m. The facility is closed on Sundays. During some special events, visitors may obtain parking passes in advance from the Campus Information Booth, from Campus Security (located on the south side of Building 5000), or from the event's sponsor.

Wolfson Campus has a multi-story parking garage open to students, faculty and staff. The garage, also known as Building 7, is located between First and Second avenues and between Fifth and Sixth streets. Entrances are on Fifth Street, Sixth Street, and and First Avenue. Students must use the MDCard to gain access. Hours of operation vary, so students need to check with security if



planning to leave a car after hours.

Medical Center Campus operates a parking lot at Northwest 10th Avenue and 20th Street. This lot is equipped with electronic control arms monitored by Campus Patrol Officers from 6 a.m. to 10:30 p.m. Monday to Thursday, and 6:30 a.m. to 6 p.m. Fridays, Saturdays and Sundays. Handicapped parking is available east of Building 2. Limited shuttle service is provided to and from the Santa Clara Metro-Rail station from 6:30 a.m. to 10:30 a.m. and from 3:30 p.m. to 5:30 p.m., Monday through Friday. Dropoff and pick-up at the Campus are north of Building 2. The driveway is posted as a "NO PARKING" and "TOW-AWAY" zone. Vehicles parked illegally in this area will be towed. Campus Patrols enforce traffic laws on campus. Identification is verified before entry to the lots.

Homestead Campus provides visitor, student, faculty and staff parking in designated areas. The College and the Homestead Police Department enforce traffic and parking regulations on the campus.

InterAmerican Campus has a multistory parking garage and several offcampus facilities for students. These facilities offer parking free of charge and access is gained upon presentation of an MDCard (or a class schedule with the Registrar's indication that the student has paid tuition). Direct access to campus buildings is available from the parking garage.

North Campus has numerous lots, though some are accessible only by faculty and staff.

Family Educational Rights and Privacy Act (FERPA) – Information Statement

Release of Student Information

Miami Dade College has a longstanding commitment to the concern for and protection of students' rights and privacy of information. This commitment will continue as a matter of College practice. The College complies with the provisions of the Federal Family Educational Rights and Privacy Act (FERPA), state of Florida law, and Florida State Department of Education, Florida Division of Community College rules. These federal and state requirements concern accessibility and confidentiality of student records. Miami Dade College Procedure 4085, Release of Student Information, provides pertinent details concerning classifications of student records and access and release provisions. The College procedure is available to students, faculty, administration and staff in the Dean of Student Services Office, as well as other offices and departments at each campus. In addition, the complete procedures are published in the Student's Rights and Responsibilities Handbook.

In accordance with U.S. Public Law 93-380(FERPA), and §229.782, F.S., students at Miami Dade College have the right to inspect their educational records and to correct such records if warranted. All student records are open for inspection and review by the student unless he or she waives this right. These records are protected from release of information without written consent. The parent(s) of a dependent student, as defined in Title 26 U.S.C. §.152 of the Internal Revenue Code, also has this right to inspect records which are maintained by the College on behalf of the student.

There are three distinct categories of records: (1) Directory Information Records, (2) Limited Access Records and (3) Sole Possession Records.

(1) Directory Information, which may be made public, includes the student's name, last known address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of athletes, degrees and awards received. The office of the Dean of Student Services or designee will only release this information after the requestor has demonstrated a legitimate need to have such information. Students not wishing the dissemination of Directory Information must complete a statement in the Registrar's Office, otherwise Directory Information may



be disclosed for legitimate purposes by the College.

(2) Limited Access Records pertain to the permanent academic records of the student, disciplinary records, financial information and testing data. This category also covers all records maintained officially by the College, which do not come under the categories of Directory Information, or Sole Possession Records. The College will not release information in Limited Access Records without written permission of the student or parent, except as provided by law.

(3) Sole Possession Records pertain to records of instructional, supervisory, and administrative personnel, which are in the sole possession of the maker and are not accessible or revealed to any other person except their designated substitute. Additional details concerning the release of student information, including exceptions, challenges to the content of records and related matters, may be obtained by consulting with the Dean of Student Services, the Registrar's Office, or designee, at any campus.

Grievance Policy

In compliance with federal and state requirements, the College has an institutional grievance policy for students alleging discriminatory practices or sexual harassment. The initial contact point for students to lodge a claim of discrimination or sexual harassment is the office of the Dean of Student Services at Kendall, North and Wolfson campuses, Dean of Students and Administration Support Services at Medical Center and InterAmerican campuses, and the Dean of Academic and Student Services at Homestead.

Housing

As a college, Miami Dade does not provide or supervise housing facilities. Two or three months' advance payment is generally required for rental housing. Out-of-area students should arrive approximately two to four weeks in advance of registration in order to locate suitable housing.

Identification

The MDCard is the official identification card for students and employees. This card will provide immediate access to the library, laboratories, parking lots, cafeterias, and vending, copying and automatic teller machines, as well as for many additional services in the near future. Students with questions should see the Student Life Office at any campus for details.

Students' Rights and Responsibilities

The Students' Rights and Responsibilities publication, available to all students, sets forth the rights of students with corresponding responsibilities. This document details the relationship between student and College. The document covers protection in academic pursuits and privacy of records, sets forth the conditions for responsible behavior on the campus and lists the various appeal mechanisms and grievance procedures available to students. The section on student discipline complies with Rule 6A-14.56, F.A.C., and § 240.132, 240.133 and 877.13, F.S. This section concerns control and discipline of community college students. The document complies with relevant federal regulations such as the award of financial aid, protection of privacy of records and equal access/equal opportunity.

Safety and Security

As required by the Federal Student Right to Know Legislation, the College publishes the annual crime statistics for each campus. These statistics may be obtained at the campus bookstore, Registrar's Office or the Security Office. Prospective students may request a copy from the Admissions Office.

Campus Activities

Campus Activities, Clubs and Organizations

There are many opportunities for students to get involved in campus

activities. Each year, outstanding artists, musicians, singers, dancers, lecturers and other performers share their talents and expertise with students. Student Life committees, composed of representatives from student groups, assist with the establishment of these programs and the policies governing these activities. In addition, there are on-campus art exhibits, dance programs, music concerts and theatrical productions presented by different campus departments.

Students have the opportunity to join 85 clubs chartered on the various campuses. The best time to find out about clubs and organizations on each campus is at the beginning of the semester, when most campuses hold special events to publicize the various clubs. Students may also visit the campus Student Life Office to find out how to get involved. Descriptions for student organizations are listed in the Student Life Handbooks located at each campus. All students are encouraged to actively participate in clubs and organizations.

North Campus Pen Players and Kendall Campus Caravan players present several full-length theatrical productions each year and tryouts are open to all students. In addition, there are several programs of experimental one-act plays produced and directed by students. At Wolfson Campus, Prometeo presents a number of productions in Spanish, and the New World Players give performances in English, both on and off campus. Interested students should contact the campus theater department.

The College bands, choruses and ensembles are open to all students regardless of their major, and in some cases students can receive college credit for participating in a music group. These groups present numerous concerts each year, both on and off campus, and participate in various College activities. Students can check with each group's director to find out if they need to audition to join. The campus music department is the best resource for information on music groups.

Intercollegiate Athletics

Students with outstanding athletic abilities may try out for one of the following intercollegiate sports teams: for

36 WWW.MDC.EDU

men, basketball or baseball; for women. basketball, volleyball or softball. Miami Dade College teams, all known as The Sharks, compete at the highest level of the National Junior College Athletic Association. Each year, Shark teams travel around the state to compete against other community college teams, and they consistently finish in the higher rounds of conference and state events. Sharks also have the opportunity to compete for the National Junior College Championship, and have the chance to be selected for NJCAA All-America teams and other special awards. MDC offers first-rate athletic facilities, training and conditioning services and a talented coaching staff. For information on trying out for an athletic team, contact the college director of athletics, based at Kendall Campus.

Student Government Association

Students are given an opportunity for self-government. A student-run governing body works with faculty and administration to formulate appropriate policies. The Student Government Association (SGA) provides an opportunity for students to gain the leadership skills vital in today's competitive job market.

Student Publications

The College newspapers, the Falcon Times at North, the Catalyst at Kendall, the Metropolis at Wolfson, and the Antidote Newsletter at Medical Center, are under the guidance of advisors who work with student editors and staff members. The newspapers serve as the media for student expression on matters involving the curricular and extracurricular activities of the College. The newspapers also provide training for those interested in journalism.

The Students' Rights and Responsibilities Handbook provides students on each campus with basic information about College-wide policies and procedures.

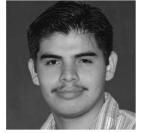


Academic Regulations

- Attendance in Class 39
 - Audit 39
 - Course Load 39
 - Grading System 39
- Petitions Committee 40
- Student Ombudsman 40
- Standards of Academic Progress 40
 - Suspension 41
 - Transcript of Records 42
 - Withdrawals 42



MDC









Academic Requiations

Attendance in Class

Students are expected to attend every class meeting and to arrive on time. Students who expect to miss a class, or those anticipating tardiness, should let the instructor know. In most courses, attendance requirements are listed on the syllabus. It is the responsibility of the student to make up work missed.

Students expecting an extended absence should notify the Dean of Student Services.

Audit

Students desiring to enroll in a course at Miami Dade College, but who do not wish to receive a grade or credit for the class, may elect to audit. Students will not be allowed to change from an audit status to a credit status (or from credit to audit) after the 100 percent refund date for each term.

Audit courses will be included in the student's academic record with a non-punitive grade of "X." Courses and credits enrolled for audit purposes do not count in the computation of a student's full-time or part-time enrollment status. College Preparatory students, who are required to be certified as completing competency-based College Preparatory instruction, cannot be enrolled under audit status.

Auditing a class costs the same as enrolling for credit, and as an audit student it can be difficult to get a space in some classes.

Course Load

All credit courses carry a specified number of credits. A 3-credit lecture course normally meets three hours per week during the 16-week terms, and eight hours per week during the sixweek terms. Lab classes generally meet for two hours per credit.

The fall and spring terms are called "major terms" and are approximately 16 weeks long. During a major term, a full course load is considered to be between

12 and 17 credits. The summer term consists of two 6-week summer sessions (1st 6-weeks/2nd 6-weeks). Some courses are scheduled for the combined summer sessions of 12 weeks. During the six-week summer session a full load is considered to be 6-7 credits.

It is suggested that students who are employed should reduce their college load as follows:

Work Hours	# Credits	# Credits
per week	fall/spring	summer A/B
20	12-15	6-7
25	8-11	5-6
40	6-7	3

Grading System

Students in College credit and vocational credit courses are graded according to the following grade point average (GPA) system:

A. Used in GPA computation:

Grade	Interpretation	Point Value
A	Excellent	4
В	Good	3
C	Average	2
D	Poor	1
F	Failure	0
\mathbf{U}	Unsatisfactory	0

B. Not used in GPA computation:

I	Incomplete
W	Withdrew
X	Audit
S	Satisfactory
P	Progress - course requirement
	not completed, student
	must repeat
NR	Grade not reported
	by instructor

"S" and "P" grades are not included in the cumulative grade point average (GPA) if the course number is below 1000 or above 9000. Credits for these courses are indicated on the transcript as credits registered and earned.

Final grades are available on the College's Web site following the end of the term.

Grade Point Average (GPA)

Each letter grade has a point value (see above). To compute the grade

points for a course, multiply the grade point value by the number of credits. For example, a "B" in a 3-credit course, is worth 9 points. A "B" in a 4-credit course is worth 12 points. To calculate a GPA, add the total grade point values for all courses and divide that figure by the total number of credits attempted.

Example:

ENC 1101	3 credits	Grade A	(4 points) = 12
HUM 1020	3 credits	Grade C	(2 points) = 6
ISS 1120	3 credits	Grade F	(0 points) = 0
ISS 1161	3 credits	Grade B	(3 points) = 9
ART 1300C	3 credits	Grade C	(2 points) = 6
DAA 1160	1 credit	Grade B	(3 points) = 3
Total Credit	s 16		Total Points 36
Divide 36 p	oints by 16	credits = 2.	25 GPA

In order to receive an A.A. or A.S. degree, or to qualify for entry into a bachelor's degree program, a student should have a minimum 2.0 GPA in all work attempted.

Repeating Courses

Students may repeat courses taken at MDC if they received a "W," "U," "D," or "F" grade.

State rule limits the number of repeat attempts to three per course. The third and final repeat attempt (i.e., the fourth time a student attempts the course) may only be granted if the student petitions through the academic appeals process, and if the student has documentation to convey extenuating circumstances. However, a student is not permitted to withdraw during the third or fourth attempt (i.e., a grade must be assigned). Repeated surcharges apply to any third or fourth attempt. All courses originally taken and then repeated will appear on the student's transcript with assigned grades, but the cumulative GPA will be recomputed to count the last attempt only.

Specific courses, as identified in the course description section, may be repeated multiple times for additional credit. All attempts of these courses will be included within the cumulative GPA. Students should note that some state universities and colleges may not accept courses repeated for additional credit.

Students should also be aware that some private colleges or universities

40

WWW.MDC.EDU

might not accept the grade of a repeated course, and that some institutions compute the grade originally assigned.

Incomplete "I" Grade

When a student is unable to complete the requirements of a course by the end of the semester, the student may be assigned an "Incomplete" or "I" grade. The "I" grade is recorded by the instructor if the student has valid reasons for not being able to finish the work. The student and instructor complete an "Agreement for Grade of Incomplete" form, which stipulates the work to be completed for a grade. Students have until the end of the next major term to finish the coursework or a failing grade for the course may be assigned.

Grade Appeals

The responsibility for the academic evaluation and assignment of grades is that of the faculty member teaching the course. A student who believes that he or she has been unfairly graded should first appeal the grade to the faculty

member. If satisfaction is not achieved, the student may appeal through administrative channels (Department Chair, Academic Dean or the grade appeals committee).

Academic Amnesty

Students with credits more than ten years old may petition to have these grades excluded from cumulative GPA calculation. This is a one-time privilege. Students may not request specific courses to be removed; it must be the entire prior record. Students may obtain a petition form at the Dean of Student Services Office.

Petitions Committee

The Petitions Committee considers exceptions to financial and withdrawal policies as stated in this catalog. Students should submit a written petition to the committee. The committee will make a recommendation to the Dean of Student Services for approval and implementation. The decision of the Dean is final.

Petitions should identify the student (complete name and student number), and clearly and concisely state the request (by writing a personal letter and supplying supporting documentation for the reason stated in the letter). Students should address the petition to: Petitions Committee, Dean of Student's Office, Hialeah, Homestead, Medical Center, North, Kendall, Wolfson or InterAmerican Campus.

Petitions must be made by the end of the next major term (fall and spring).

Student Ombudsman

The student ombudsman is a person who serves as the initial point of contact for students who have concerns, complaints or issues involving the awarding and posting of credits or the access to courses. The student ombudsman is not a student, however, but an employee of the College. The student ombudsman has the authority to investigate the issue, as well as to arrange meetings among the involved parties in order to reach a resolution.

The ombudsman listens to student concerns and directs students to the appropriate College/campus office and College procedures/policies. Such referrals should be made for 1) Grade Appeals, 2) Petitions for Withdrawals and Refunds, 3) SOAP (Standards of Academic Progress) Appeals, 4) Discipline and 5) Sexual Harassment. In these situations, the student ombudsman acts as a referral agent. If asked, the ombudsman can assist students in completing required forms.

Standards of Academic Progress

The "Standards of Academic Progress" (SOAP) establish a formal process through which the administration and faculty at MDC can identify and provide assistance to students who experience academic difficulty.

Most MDC students make satisfactory academic progress, but some experience difficulty. MDC alerts these students so that their academic weaknesses may be strengthened early in their college careers. This is particularly important for students receiving financial aid, because the College's "Standards of Satisfactory



Academic Progress" must be maintained to remain eligible for aid.

When academic progress has not been satisfactory, the Standards require students to limit the number of credits for which they register. At this time, the College provides special academic assistance. The Standards are not intended to discourage or penalize students who are sincerely trying to make good use of the College's instructional services. The objective of the Standards is to improve performance by students experiencing academic difficulty. SOAP reflects the commitment of the MDC faculty and administration to provide students with as much assistance as possible to ensure success in achieving their educational goals.

Academic Standards

Consequences of sustained poor academic performance are summarized below.

Credits		Credits	
Registered	GPA	Earned	Result
	less		Academic
7-16.9	than 1.5	n/a	Warning
		less than	Academic
17-29.9	n/a	two-thirds	Warning
	less		Academic
17-29.9	than 1.5	n/a	Probation
			Academic
30-44.9	1.50-1.79	n/a	Probation
		less than	Academic
30-44.9	n/a	two-thirds	Probation
45 or			Academic
more	1.5-1.99	n/a	Probation
30 or	less		Academic
more	than 1.5	n/a	Suspension
45 or		less than	Academic
more	n/a	two-thirds	Suspension

Incomplete and audit grades are not calculated when determining whether a student has earned "two-thirds" of the credits registered.

Academic Warning

"Academic Warning" limits a student's enrollment to 12 credits in the fall term, 12 credits in the spring term, and 12 credits in the summer term (6 credits in the first six weeks and six credits in the second six weeks). This includes 3 credits of prescribed program intervention courses. This may include College Preparatory courses, a study skills course, career counseling or a combination of all three.

Academic Probation

"Academic Probation" limits a student's enrollment to 9 credits in the fall term, 9 credits in the spring term, 6 credits in the summer term, (3 credits in the first six weeks and 3 credits in the second six weeks). This limitation includes 3 credits of prescribed intervention courses. Students remain on "Academic Probation" until they maintain a 2.0 overall GPA and earn credit in two-thirds of the credits for which they register.

Academic Suspension

"Academic Suspension" requires a student to discontinue enrollment at Miami Dade through the next major term. A suspended student may achieve probation status if he or she successfully appeals the academic suspension. In this case, students may continue to register on extended "Academic Probation" provided that they maintain a 2.0 term GPA and earn credit in at least two-thirds of their registered coursework.

Students who discontinue their enrollment because of suspension during a major term may re-enter the College and continue for each subsequent term of enrollment, provided they maintain a 2.0 term GPA and earn credit in at least two-thirds of the credits for which they register.

Academic Dismissal

"Academic Dismissal" represents a separation of students from Miami Dade College for at least twelve months. "Academic Dismissal" occurs if a student fails to meet the minimum requirements during an extended academic probation after suspension. If, after being readmitted following suspension, the student fails to meet minimum standards (maintaining a 2.0 term GPA and earning at least two-thirds of the credits for which he or she has registered), the student will be separated from the College.

Students are eligible to apply for enrollment to the College after the dismissal period. This request will be on an appeal basis. In order for re-enrollment to be approved, the appeal must present evidence of some change in the student's circumstances.

Standards of Progress for Students Receiving Financial Aid - A student receiving financial aid must be meeting "Standards of Academic Progress." Federal regulations state that students are eligible to receive financial aid benefits for up to 150 percent of the number of credits registered to complete the degree or certificate. After the 150 percent mark, benefits will terminate. This applies to all registered credits, including courses which were attempted or withdrawn from, but not including "I" grades or audits. Thirty credits of College Preparatory and AP credits are exempted from this 150 percent rule. Students who meet or exceed the 150 percent are no longer eligible to receive federal/state financial aid. For extenuating circumstances, students may appeal through the Petition for Financial Aid Waiver

Standards of Progress Veterans - A student receiving educational benefits from the U.S. Department of Veterans Affairs (V.A. student) must maintain satisfactory progress (cumulative GPA of 2.0 or better) at the end of any term. A V.A. student who does not have a 2.0 cumulative GPA at the end of a term will be placed on "Academic Probation" for the next two terms. If the V.A. student has not attained a 2.0 cumulative GPA by the end of the probationary period, the student's V.A. educational benefits will be terminated. After one term has elapsed, the student may petition the school to be re-certified for V.A. educational benefits. The student may be re-certified only if there is a reasonable likelihood that the student will be able to attain and maintain satisfactory progress for the remainder of the program. Veterans enrolled in Career Technical Education programs will have their V.A. benefits suspended if they accumulate three or more unexcused absences during any calendar month. An individual whose benefits are suspended for excessive absences may be reinstated once during a semester upon written permission of the instructor.

Suspension

By the act of registering at Miami Dade College, a student agrees to abide by the Code of Conduct of the College. A student who violates the Code of Conduct while on College property 42

WWW.MDC.EDU

or while participating at a Collegesponsored event may be suspended.

Transcript of Records

A transcript is a printed list of all the courses taken, the number of credits and grade earned. Transcripts summarize the GPA and also indicate the receipt of any certificates or degrees. Students must submit a written request to the Registrar's Office in order to have a transcript sent to a particular location.

Students will be unable to get a transcript if an obligation to the College has not been satisfied. These obligations include unpaid fees or overdue loans, as well as the return of library books, audiovisual media and athletic equipment.

Withdrawals

Withdrawal from Courses

A student desiring to withdraw from a course after the first week of classes should initiate withdrawal procedures with the classroom instructor. Withdrawals are not official until the withdrawal (drop) card is completed and submitted to the Registrar's Office. Withdrawal deadlines are published in the official College calendar.

A reduction in course load may jeopardize a student's eligibility to participate in campus activities and athletics, or to receive financial aid and veteran's benefits. Student visa status may also contain course load stipulations.

The student may withdraw without academic penalty from any course by the midpoint in the semester. Withdrawals after the midpoint would be granted only through established institutional procedures.

Effective fall term 1997, state rule specifies that a student will be permitted a maximum of three attempts per course. Upon the third attempt, the student will not be permitted to withdraw and he or she will receive a grade for that course.

Administrative Withdrawal from Courses

As determined by departmental guidelines, faculty members have the right to withdraw a student from class due to excessive absences.

If students are withdrawn from a course because the class is cancelled, they should see an advisor about selecting another course. A full refund is automatically granted for canceled courses.

Withdrawal from College

In order to withdraw completely and officially from the College, a student must go through the following steps:

At North, Kendall, Wolfson, Inter-American, Homestead, Hialeah and West campuses, students must complete an official withdrawal card and turn it in to the Registrar's Office. At Medical Center Campus, students must initiate the withdrawal procedure with the appropriate department chair. This representative will prepare an official withdrawal card. The student then clears with the library and turns in his or her withdrawal card to the Student Services Office.

Failure to follow these steps may cause the student to fail courses unnecessarily, and in some cases may prevent the receipt of a refund.

If illness makes it impossible to return to campus, a letter to the Registrar's Office will initiate withdrawal.



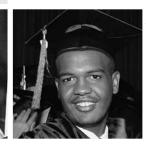
Craduation Requirements

Graduation Requirements	45
Continuous Enrollment for Graduation Requirements	45
Baccalaureate Degree	45
Foreign Language Requirements	46
General Education and Miami Dade College Learning Outcomes	47
General Education Requirements for the Associate in Arts	48
Other Assessment Procedures for College Level Communication and Computation Skills (6A-10.030)	49
General Education Requirements for the Associate in Science/Associate of Applied Science	50
Advanced Technical Certificate Programs	50
College Credit Certificate Programs	50









Special Recognition for Outstanding Academic Performance *51*

Career Technical Education Programs

Transfer Information 51

Commencement

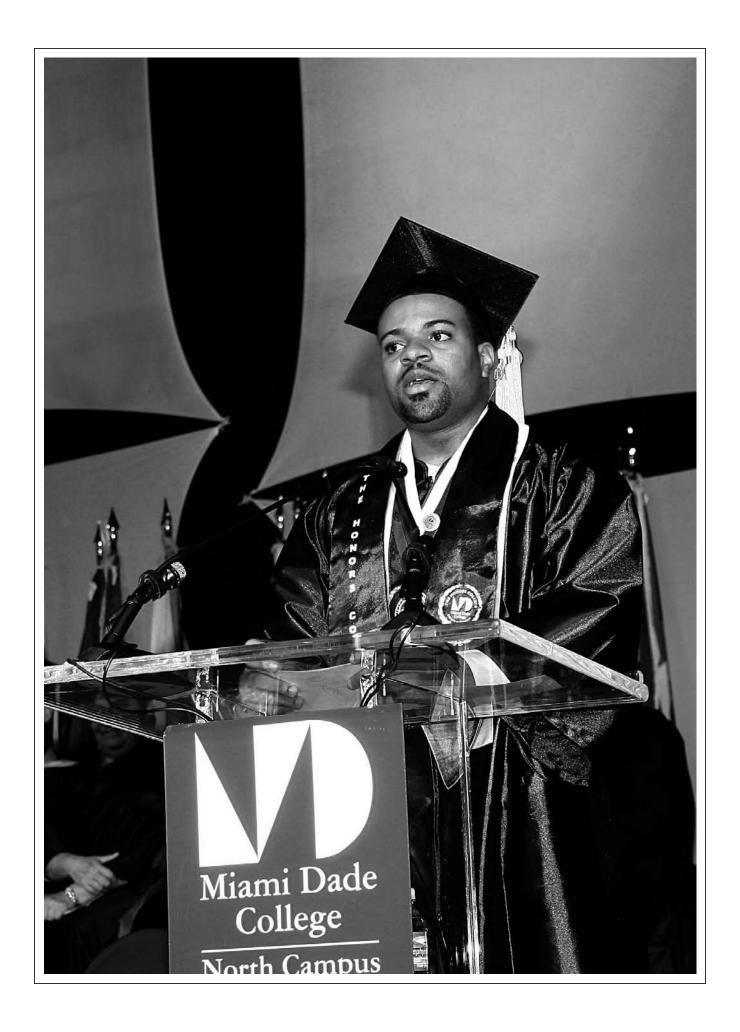
51 Articulation

51

51

State of Florida Articulation Agreement 51

> Additional Agreements 52



Graduation Requirements and Transfer Information

Graduation Requirements

Miami Dade College awards baccalaureate degrees in education, public safety management and nursing, the Associate in Arts, Associate in Science and the Associate of Applied Science. MDC also offers college credit certificates, advanced technical certificates and vocational credit certificates. Students must meet the general education requirements and any program requirements to be eligible for a degree.

Continuous Enrollment for Graduation Requirements

The College graduation requirements are based upon the year and term of entry to Miami Dade College. Those requirements apply as long as the student continues to register for at least one term during any 12-month period. If a student does not register for a period exceeding four terms, he or she is subject to the graduation requirements in effect for the year and term of reentry to the College.

State graduation requirements, like the College Level Academic Skills Test (CLAST) or a state-approved alternative for the Associate in Arts degree, apply to all students, regardless of whether the student has been continuously enrolled.

Requirements for All Associate Degrees

- A. Complete at least 15 of the last 30 credits applied toward the degree at Miami Dade College.
- B. Complete a minimum of 24 credits in discipline-related courses at Miami Dade College for Associate in Science degree programs.
- C. Complete an application for graduation before the published deadline date. (See Academic Calendar)
- D. Fulfill all financial obligations to the College.

Baccalaureate Degree

Required Hours and GPA

Successful completion of a minimum of 120 semester hours.

A minimum GPA of 2.0 on all course work taken at Miami Dade College and an overall 2.0 average on all college-level work attempted. Note: higher grade point averages may be required for specific majors.

Thirty (30) semester hours must be earned in courses numbered at the 3000 or 4000 level.

General Education, Gordon Rule and CLAST

Satisfactory completion (a minimum GPA of 2.0) of Miami Dade College General Education courses (36 semester hours) as follows:

- Area I. English Composition (6 semester hours)
- Area II. Oral Communication (3 semester hours)
- Area III. Humanities/Fine Arts (6 semester hours)
- Area IV. Behavioral/Social Science (6 semester hours)
- Area V. Natural Science (6 semester hours)
- Area VI. Mathematics (6 semester hours)
- Area VII. General Education Elective (3 semester hours)

Satisfactory completion of §1007.25, E.S., the "Gordon Rule," requirements (see p. 49).

Satisfactory completion of the Florida CLAST or approved alternative (p. 31).

Computer Skills Competency

All undergraduates at Miami Dade College must demonstrate basic computer skill competencies prior to graduation.

Final 30 Credit Hours in Residency Requirement

Bachelor degree-seeking students must complete the final 30 semester

hours in residence at Miami Dade College. In cases of emergency, a maximum of 6 hours of the final 30 semester hours may be completed by correspondence or residence at another accredited senior institution with the approval of the academic dean. College-Level Examination Program (CLEP) credit earned may be applied to the final 30 hour requirement provided that the student has earned at least 30 semester hours credit at Miami Dade College.

Requirements for Admission to Upper Division

Students should contact the Office of Admissions for specific baccalaureate admission criteria.

EDUCATION MAJORS (B.S.)

The Miami Dade College School of Education, through a dynamic and prepared faculty, offers academic programs to prepare teachers for the classrooms of the 21st century. Baccalaureate programs are approved by the Florida Department of Education.

- The Exceptional Student Education major prepares students to teach in Exceptional Student Education classes in Kindergarten through grade 12;
- The Secondary Mathematics Education major prepares students to teach in middle schools and high schools; and
- The Secondary Science Education major prepares students to teach in middle schools and high schools. These programs are designed to prepare students to gain the knowledge, skills, and dispositions that will enable them to be effective teachers. Programs have been designed to meet professional standards including certification requirements that will allow program graduates to become teachers immediately after graduation. Students in the baccalaureate programs are required to complete the Student Teaching component, this culminating activity consists of an internship in a school setting under the supervision of a clinically trained educator.

PUBLIC SAFETY MANAGEMENT (BAS)

The BAS with a major in Public Safety Management is a workforce education based degree, combining rigorous academic training with hands-on, practical experience. It is a 120 credit hour program incorporating lower- and upper-division course work, including 45 credit hours of general education and elective requirements, 30 credit hours of lower-division requirements, 30 credit hours of upper-division requirements, and 15 credit hours in one of the following 10 applied tracks:

- Law Enforcement
- Corrections
- Probation and Parole
- · Security and Loss Prevention
- Emergency Management
- Crime Scene Investigation
- Field Internship Placement
- · Basic Law Enforcement Academy
- Basic Corrections Academy
- · Criminal Justice

Qualified students selecting into either the Basic Law Enforcement Academy track or Basic Corrections Academy track spend the last semester of their four-year program in one of our basic recruit training programs. Students completing either academy track will find that in four years they have earned a BAS in Public Safety Management and are eligible to sit for the State Officer Certification Exam in either Law Enforcement or Corrections.

For further information please visit: https://sisvsr.mdc.edu/ps/sheet.aspx

BACHELOR OF SCIENCE IN NURSING (BSN)

The primary goal of the Bachelor of Science in Nursing (BSN) degree at

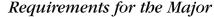
Miami Dade College is to provide students and practicing nurses with a high quality, accessible, cost-effective and seamless academic program designed to meet the critical workforce need for baccalaureate-prepared nurses in the state of Florida.

General Education Requirement

All areas of General Education must be satisfactorily completed. Students must have an overall GPA of at least 2.0 in their General Education courses. Students must have a "C" or better in each course designated as "Gordon Rule."

Foreign Language Requirement

The state of Florida requires that baccalaureate degree-seeking students be proficient at the intermediate level in one language other than English. Students who did not demonstrate foreign language proficiency prior to admission may satisfy the requirement by completing course work through the 2000 level of a classical or modern foreign language. A student taking course work to fulfill the foreign language requirement must earn at least a C or better. Native speakers of another language and other students who wish to demonstrate proficiency by means other than course work should consult the ESL/Foreign Language Department for testing. Miami Dade College will accept American Sign Language (ASL) through SPA 2614C and SPA 2615C (American Sign Language 3 and 4) for the foreign language requirement.



Departments are responsible for disseminating major requirements to students. Each candidate for the baccalaureate degree must complete requirements in their chosen major. The major normally consists of approximately thirty (30) semester hours, depending on the department in question. See departmental entries for specific requirements.

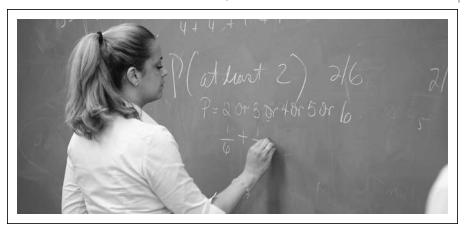
Dual Degree Versus a Double Major

Students should note that there is a difference between a **double major** (second major) and a **dual degree** (second baccalaureate degree).

To obtain a double major, one must meet all requirements of the school/ department of the primary major but only the major requirements of the secondary major.

Students may receive a second baccalaureate degree provided that 1) the requirements for each major/minor as well as individual college requirements for both the first and the second degrees are satisfied; and 2) 30 semester hours in residence are completed, in addition to the hours required for the first degree. The additional 30 semester hours must be completed in residence after the completion of the first degree. Hours earned by the student during the completion of the first baccalaureate degree, over and above those extra credit hours actually required for the first degree, may not be included in the 30 semester hours. There are no General Education or Florida CLAST requirements for the second (dual) degree.

STUDENTS IN ALL PROGRAMS SHOULD CHECK THEIR INDIVIDUALIZED DEGREE AUDIT REPORT TO DETERMINE THE SPECIFIC GRADUATION POLICIES IN EFFECT FOR THEIR PROGRAM OF STUDY. REQUIREMENTS MAY CHANGE BASED ON THE YEAR AND TERM A STUDENT ENTERS MIAMI DADE COLLEGE. THE DEGREE AUDIT REPORT INCLUDES CURRENT GRADUATION REQUIREMENTS. THE FINAL RESPONSIBILITY FOR MEETING GRADUATION REQUIREMENTS STATED IN THE DEGREE AUDIT REPORT RESTS WITH THE STUDENT.



Associate in Science/ Associate of Applied Science Degrees

The Associate in Science degree is awarded to students who successfully complete one of the occupational, education or allied health programs. These areas of study are designed primarily to prepare students for immediate employment. However, credits earned for many courses in these programs are acceptable to upper-division colleges should the student decide to continue toward a four-year degree. To be granted upperdivision standing at a state university, the student must meet the admissions criteria, including successful completion of the College Level Academic Skills Test (CLAST) or state-approved alternative criteria.

Requirements for Associate in Science/Associate of Applied Science Degrees

- 1. Complete an approved program with 60 or more credits specified in courses numbered 1000-2999, including the general education core courses.
- 2. Earn a minimum 2.0 GPA in the 60 or more program credits presented for graduation.
- 3. Complete the general education courses with a minimum of a C grade.

General Education and Miami Dade College Student Learning Outcomes

General Education: Student Learning Outcome Foundation

Academic study has its foundation in the required courses and designated elective areas of general education. Through this coursework, the student begins the acquisition of fundamental knowledge, skills and attitudes. What begins in specified general education coursework is reinforced and expanded through the general and intentional presence of Student Learning Outcomes throughout each student's degree program and cocurricular learning.

Student Learning Outcomes: A Promise between Students and Faculty

The 10 Miami Dade College Student Learning Outcomes listed below were formally recognized in a 2007 covenant signing ceremony. Students and faculty pledged to share in "the development of knowledge, skills, and attitudes that foster effective citizenship and life-long learning." Students promised to prepare and engage in active study and to articulate the learning outcomes in their lives and work. Faculty accepted their obligations as teachers and mentors to design engaging coursework, programs and activities that intentionally address the learning outcomes and actively engage students As a result, each degree student, regardless of major or specialty, is provided multiple and varied opportunities to achieve these Student Learning Outcomes and to become an effective citizen and life-long learner:

- 1. Communicate effectively using listening, speaking, reading, and writing skills.
- 2. Use quantitative analytical skills to evaluate and process numerical data.
- Solve problems using critical and creative thinking and scientific reasoning.
- 4. Formulate strategies to locate, evaluate, and apply information.
- 5. Demonstrate knowledge of diverse cultures, including global and historical perspectives.
- 6. Create strategies that can be used to fulfill personal, civic, and social responsibilities.
- 7. Demonstrate knowledge of ethical thinking and its application to issues in society.
- 8. Use computer and emerging technologies effectively.
- 9. Demonstrate an appreciation for aesthetics and creative activities.
- 10. Describe how natural systems function and recognize the impact of humans on the environment.



40



General Education Requirements for the Associate in Arts Degree

To receive an Associate in Arts degree, students must complete 36 "General Education" credits with the minimum grade requirement of "C" (except in the three "General Education" elective credits). **Designates Gordon Rule course.

Students must complete the following:

GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE IN ARTS DEGREE

1. **COMMUNICATIONS** (6 credits)

**ENC 1101 English Composition 1
**ENC 1102 English Composition 2

2. ORAL COMMUNICATIONS

(3 credits)

**ENC 2300 Advanced

Communication Skills

**LIT 2480 Issues in Literature

and Culture

**SPC 1026 Fundamentals of

Speech Communication

3. HUMANITIES (6 credits)

Students must take 3 credits from Group A and 3 credits from Group B. Students are encouraged to choose courses from different disciplines in Group A and B. Students who are majors in architecture, art, dance, interior design or music should choose courses for their respective major identified under the "Majors Only" in both Group A and Group B.

Group A (3 Credits)

ARH 1000 Art Appreciation

DAN 2100 Dance Appreciation

HUM 1020 Humanities

MUL 1010 Music Appreciation

PHI 2604 Critical Thinking and Ethics

(Prereq: ENC 1101)

Majors Only

ARC 2701 History of Architecture 1 (architecture majors only;

dept. permission required)

ARH 2050 Art History 1

(art majors only; dept.

permission required)

IND 1100 History of Interiors 1

(interior design majors only; dept. permission

required)

MUH 2111 Survey of Music History 1
(Music majors only; dept.
permission required)

Group B (3 credits)

**ARH 2740 Cinema Appreciation

**LIT 2120 A Survey of

World Literature

**MUL 2380 Jazz and Popular

Music in America

**PHI 2010 Introduction to Philosophy

**THE 2000 Theatre Appreciation

Majors Only

**ARC 2702 History of Architecture 2
(Prerequisite: ARC 2701;
architecture majors only;
dept. permission required)

**ARH 2051 Art History 2

(Prerequisite: ARH 2050; art majors only;

dept. permission required)

**DAN 2130 Dance History 2

(dance majors only; dept. permission required)

**IND 1130 History of Interiors 2 (Prerequisite IND 1100;

interior design majors only;

dept. permission required)

**MUH 2112Survey of Music History 2
(Prerequisite: MUH 2111;
music majors only; dept.
permission required)

4. BEHAVIORAL/SOCIAL SCIENCE

(6 credits)

Students must take 3 credits from Group A and 3 credits from Group B. If students select a 1000 level course from one group, they must select a 2000 level course from the other group.

Group A (3 credits)

ANT 2410 Introduction to

Cultural Anthropology

DEP 2000 Human Growth

and Development

ISS 1161 The Individual In Society

CLP 1006 Psychology of

Personal Effectiveness

PSY 2012 Introduction to Psychology

SYG 2000 Introduction to Sociology

Group B (3 credits)

AMH 2010 History of the

United States to 1877

AMH 2020 History of the

United States since 1877

**ECO 2013 Principles of

Economics (Macro)

ISS 1120 The Social Environment

POS 2041 American Federal

Government

WOH 2012 History of World Civilizations to 1715 WOH 2022 History of World Civilizations from 1715

5. NATURAL SCIENCE (6 credits)

Students must take 3 life sciences and 3 physical sciences credits, excluding labs

Life Sciences (3 credits)

BOT 1010	BSC 1084	HUN 1201
BSC 1005	BSC 2010	OCB 1010
BSC 1007	BSC 2020	PCB 2033
BSC 1030	BSC 2085	PCB 2340C
BSC 1050	BSC 2250	ZOO 1010

Physical Sciences (3 credits)

AST 1002	GLY*	PHY*
CHM*	MET*	PSC 1121
ESC*	OCE*	PSC 1515

* = any course with this prefix (excluding labs)

Majors in one of the natural sciences, architecture, engineering, nursing and allied health programs should select the appropriate sequence of courses beginning with one of the following:

BSC 2010 CHM 1045 BSC 2085* PHY 2048

* = Students are strongly recommended to complete CHM 1033/1033L prior to registering for BSC 2085/2085L.

PHY 2053

6. **MATH** (6 credits) (Gordon Rule: no writing required)

Any 6 credits excluding labs:

MAC MAS QMB 2100 MAD 2104 MGF STA 2023 MAP MTG 2204

7. REQUIRED GENERAL

EDUCATION ELECTIVE (3 credits) Select 3 credits from any of the following options.

• Cross-Cultural Studies

ANT 2410 GEO 2420 LIT 2480 ECO 2013 INR 2002 SYG 2230 EDG 2701 ISS 2270 WOH 2012 EEX 2000 LIT 2120 WHO 2022

- •Any approved general education course previously listed but not used to satisfy another general education requirement
- •Any AST, BOT, BSC, CHM, GLY, MET, OCE, PHY, PSC, Z00, HUN 1201, PCB 2033 or linked lab
- Any MAC, MAP, MAS, MGF, MTG 2204, STA 2023, QMB 2100 (excluding labs)
- •Computer Science: 1 to 3 credit transferable computer course

•Health - Wellness: HSC 1121, HSC 2400, HLP 1080 or HLP 1081

•Any 3 credit introductory course in a major field that satisfies statewide general education requirements:

ACG 2021	EDF 1005	PSY 2012
AMH 2010	LIT 2120	REL 2300
ANT 2410	PHI 2010	SYG 2000
ARH 1000	PHY 2048	THE 2000
CHM 1045	POS 2041	
ECO 2013	POS 2112	

- •Any foreign language course at the 2000 level.
- •Sign Language: SPA 2614C or SPA 2615C

8. COMPUTER COMPETENCY

By the 16th earned college-level credit (excluding English for Academic Purposes [EAP] and college preparatory courses), a student must take the computer competency test and **pass**.

OR

By the 31st earned college-level credit (excluding EAP and college preparatory courses), a student must **pass** CGS 1060, an equivalent continuing education or vocational credit course or retest with

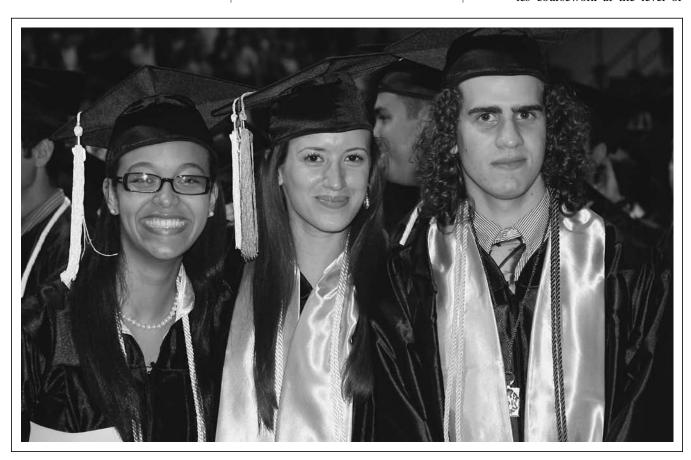
a **passing** score on the computer competency test.

Other Assessment Procedures for College-Level Communication and Computation Skills (6A-10.030)

Adoption of the rule revisions by both the Florida State Board of Education and the Board of Governors will relieve the burden of "counting words" (Gordon Rule) for institutions and ease student transfer across institutions while maintaining high standards for the completion of the general education requirements

(1) In addition to assessments that may be adopted by the Florida State Board of Education or Board of Governors to measure student achievement in college-level communication and computation skills, other assessment requirements shall be met by successful completion of coursework in English and mathematics. For the purposes of this rule, a grade of "C"

- or higher shall be considered successful completion.
- (2) Prior to receipt of an Associate in Arts degree from a public community college or university or prior to entry into the upper division of a public university or college, a student shall complete successfully the following:
 - (a) Six semester hours of English coursework and 6 semester hours of additional coursework in which the student is required to demonstrate college-level writing skills through multiple assignments. Each institution shall designate the courses that fulfill the writing requirements of this section. These course designations shall be submitted to the Statewide Course Numbering System. An institution to which a student transfers shall accept courses so designated by the sending institution as meeting the writing requirements outlined in this section.
 - (b) Six semester hours of mathematics coursework at the level of



50

WWW.MDC.EDU

college algebra or higher. For the purposes of this rule, applied logic, statistics and other such computation coursework which may not be placed within a mathematics department may be used to fulfill 3 hours of the 6 hours required by this section.

- (c) Students awarded college credit in English based on their demonstration of writing skills through enrollment, advanced placement, or international baccalaureate instruction pursuant to Rule 6A-10.024, F.A.C., and students awarded college credit based on their demonstration of mathematics skills at the level of college algebra or higher through one or more of the acceleration mechanisms in Rule 6A-10.024, F.A.C., shall be considered to have satisfied the requirements in subsection 6A-10.030(2), F.A.C., to the extent of the college credit awarded.
- (3) Exemptions and Waivers. Any public community college or university desiring to exempt its students from the requirements of subsection 6A-10.030(2), F.A.C., shall submit an alternative plan to the Department of Education. Upon approval of the plan by the department, the plan shall be submitted to the Florida Board of Education or the Board

of Governors as appropriate. Upon approval by the Florida Board of Education or the Board of Governors, said plan shall be deemed effective in lieu of the requirements of subsection 6A-10.030(2), F.A.C.

Specific Authority 1001.02(1) and (2)(n) ES. Law Implemented 1001.02 FS., Section 15, Chapter 87-212, Laws of Florida. History – New 1-11-82, Formerly 6A-10.30, Amended 6-8-88, 12-18-2005.

General Education Requirements for the Associate in Science/ Associate of Applied Science Degrees

To receive an Associate in Science degree, students must complete the following courses and earn a minimum of a "C" grade:

Communications

ENC 1101 English Composition 1
Oral Communications

SPC 1026 Fundamentals of Speech Communications

Humanities

PHI 2604 Critical Thinking and Ethics **Behavioral Sciences**

CLP 1006 Psychology of

Personal Effectiveness

Math/Science (any 3 credits excluding labs):

1403).



Math

MAC • MAP • MGF • QMB •

MAD • MAS • MTB • MTG 2204 STA 2023

Science

AST • CHM • MCB • PCB 2033 •

ZOO • BOT • GLY • MET • PSC •

BSC • HUN 1201 • OCE • PHY

To receive an Associate of Applied Science degree, students must complete the General Education Requirements identified on the program outlines and earn a minimum "C" grade.

Computer Competency

By the 16th earned college-level credit (excluding EAP and college preparatory courses), a student **must** take the computer competency test and **pass**.

OR

By the 31st earned college-level credit (excluding EAP and college preparatory courses), a student must **pass** CGS 1060, an equivalent continuing education or vocational credit course or retest with a **passing** score on the computer competency test.

In order to be eligible to enroll in the communications courses, students must achieve specified scores on the reading and the writing assessments. Students who do not demonstrate the required proficiency on these assessments must register for college preparatory courses.

Advanced Technical Certificate Program

The Advanced Technical Certificate is available to students who have already been awarded an Associate in Science degree and wish to upgrade their skills. Students must successfully complete a prescribed set of courses at the advanced level in order to be awarded the certificate.

College Credit Certificate Programs

A College Credit Certificate is awarded to students who complete all course requirements for state-approved college credit certificate programs offered at MDC. All college credit certificate program courses also apply toward the

related Associate in Science degree. See pages 119 and 120 for a description of college credit certificate programs.

Career Technical Education Programs

To receive a Career Technical Education Certificate (formerly V.C.C.), students must successfully complete all courses specified within the program, meet the reading and computational skills required for the particular program and apply for graduation.

Commencement

(Graduation Ceremony)

Students who anticipate completing their program during the academic year should meet with an academic advisor to ensure that all graduation requirements will be met. Also, students must apply for graduation by the deadlines published in the academic calendar. Students planning to graduate in spring or summer terms should note that the deadline is very early in the spring term.

The commencement ceremony is held once a year, at the end of spring term (late April or early May). Caps and gowns are available at campus bookstores for those who have applied for graduation. There is no cost for these items.

Special Recognition for Outstanding Academic Performance

(College Credit Students Only)

The College gives special recognition to students who demonstrate outstanding academic performance while working toward a degree. Students are eligible for the following recognition:

Dean's List - recognizes students who have a term GPA of 3.5 or above for 12 or more credits earned in the fall or spring term, and for 6 or more credits earned in the summer A or summer B terms.

Letter of Congratulations - the campus academic dean sends a special letter of congratulations to students who earn a term grade point average of 4.0 for 12 or more credits earned in the fall or spring terms (excluding courses which do not satisfy degree requirements).

In addition, special designations are entered on transcripts of students awarded an Associate in Arts or Associate in Science degree as follows:

Honors

A cumulative GPA of 3.5-3.69 is required to graduate with Honors.

Highest Honors

To graduate with Highest Honors, a student must achieve a cumulative GPA of 3.7 or higher.

Honors and Distinction

A cumulative GPA of 3.5-3.69 and at least 15 credits earned in honors courses is required to graduate with Honors and Distinction.

Highest Honors and Distinction

A cumulative GPA of 3.7 or higher and at least 15 credits earned in honors courses is required to graduate with Highest Honors and Distinction.

Phi Theta Kappa

To be eligible for induction into Phi Theta Kappa, the International Honor Society of the Two-Year College, a student must have completed a minimum of 12 college-level credits leading to an Associate degree, with a minimum 3.5 GPA and the student must be currently enrolled. Upon graduation, initiated students will have those noted on their transcript.

Transfer Information

Students who have been awarded the Associate in Arts degree may transfer to an upper-division institution (public or private) to complete the baccalaureate degree. A limited number of Associate in Science degree programs may also transfer to specific institutions if other requirements are met.

Campus Career Centers offer students a variety of career-related services. Students who are undecided about their academic major or career goals, or who are interested in a systematic investigation of the universities best suited for their needs, should visit the Campus Career Center.

Articulation

Articulation is a system designed to provide for smooth movement of students from high school, through the community college system and into the State University System of Florida. There are a number of types of articulation agreements which create special opportunities for students.

Inter-Institutional Articulation Agreement

Miami Dade College and Miami-Dade County Public Schools have created interinstitutional articulation agreements. These range from the formalized New World School of the Arts, to agreements for transfer of specific adult vocational credits to Associate of Applied Science and Associate in Science degrees, certificate programs and tech prep articulation agreements.

State of Florida Articulation Agreement

If a student graduates from a Florida public community college with an A.A. degree, the articulation agreement guarantees, within certain limitations, that he or she will receive priority admission into a state university. The articulation agreement also guarantees that the general education and elective courses students take at MDC will all be accepted as transfer credit. This ensures that students will enter state universities as juniors.

However, each university has some programs with admission limits or additional requirements. These are designated as "limited access programs," and they require higher GPAs or other specific criteria for admission at the junior level. Students are advised to contact the program director at the university well before completion of the A.A. degree (or applicable A.S. degree) to obtain the list of admission requirements.

If a student attempts to transfer to a Florida state university without first

52



completing the A.A. degree (or applicable A.S. degree), that university will expect the student to meet the same admission requirements as high school seniors applying for freshman admission. These admission requirements are based on (1) high school graduation (2) GPA in high school academic core courses (3) admissions test scores, and (4) course distribution requirements. Moreover, the state university may require a student to take additional courses. The classes the student took at MDC will be reviewed individually and will not automatically transfer if the student did not complete the A.A. degree.

These "Two-Plus-Two" articulation policies encourage students to attend public community colleges as their starting point for higher education, but students need to complete the A.A. to benefit from the agreements. As established in \$1007.23, F.S., and Rule 6A-10.024, F.A.C., the articulation agreement states: "Every Associate in Arts graduate of a Florida community college shall have met all general education requirements and must be granted admission to the upper division of a state university except to a limited access or teacher certification program or a major program requiring an audition."

Independent Colleges and Universities of Florida (ICUF)

There is also an articulation agreement between the Florida Division of Community Colleges and the Independent Colleges and Universities of Florida (ICUF). Under the agreement, community college students holding an Associate in Arts degree are guaranteed junior standing in any member institution, recognition of their completed general education core and the application of a minimum of 60 earned credit hours toward a baccalaureate degree.

Additional Agreements

In addition, Miami Dade College has developed several unique arrangements with local and out-of-state colleges and universities that make it possible for a student to apply for admission toward a baccalaureate degree. As a general rule, participating institutions will accept associate degree credits and work out a schedule for the additional bachelor's degree requirements. Agreements have been signed with the following institutions:

Barry University*, Miami, FL Beacon College*, Leesburg, FL Bethune-Cookman University*, Daytona, FL

California State University, Dominguez Hills, Carson, CA

Canisius College, Buffalo, NY Capella University, Minneapolis, MN Carlos Albizu University, Miami, FL Cibertec - Universidad Peruana de

Ciencias Aplicadas, Lima, Perú Drexel University, Philadelphia, PA Eckerd College*, St. Petersburg, FL Edward Waters College*, Jacksonville, FL Embry-Riddle Aeronautical University*, Daytona, FL

Flagler College*, St. Augustine, FL Fisk University, Nashville, TN Florida Atlantic University (FAU) Geographic Information Systems, Boca Raton, FL

Florida College*, Temple Terrace, FL Florida Gulf Coast University (FGCU) A.S. to B.S. in Legal Studies/ Biotechnology, Fort Myers, FL

Biotechnology, Fort Myers, FL Florida Hospital College of Health Sciences*, Orlando, FL

Florida Institute of Technology*, Melbourne, FL

Florida International University (FIU)
A.S. to B.S. agreements in
Business Management; Hospitality
Management; Nursing; Allied Health;
Criminal Justice, Miami, FL

Florida Memorial University*, Miami, FL Florida Southern College*, Lakeland, FL Georgia Institute of Technology,

Atlanta, GA
Heidelberg College, Tiffin, OH
Hodges University*, Naples, FL
Indiana University, Bloomington, IN
Jacksonville University*, Jacksonville, FL
Keiser University, Fort Lauderdale, FL
Kettering University, Flint, MI
Long Island University, Long Island, NY
Lynn University*, Boca Raton, FL
Michigan State University, East Lansing,

Mount Holyoke College, So. Hadley, MA Nova Southeastern University*, B.S. in Health Science, Ft. Lauderdale, FL Palm Beach Atlantic University*, West Palm Beach, FL

Parsons School of Design, New School University, New York, NY

Pine Manor College, Chestnut Hill, MA Robert Ross International University of Nursing, St. Kitts, Leeward Island Rollins College*, Winter Park, FL

Saint Leo University*, St. Leo, FL School of the Museum of Fine Arts, Boston, MA

Smith College, Northampton, MA Southeast Florida Engineering Education Consortium (FAU and FIU), Boca Raton, FL

Southeastern University*, Lakeland, FL St. Peter's College, Jersey City, NJ St. Thomas University*, Miami, FL Stetson University*, Deland, FL Strayer University, Washington, D.C.

The University of Tampa*, Tampa, FL University of Bridgeport, Bridgeport, CT

University of Florida (UF) Engineering, Gainesville, FL University of Maryland University

University of Maryland University College, Adelphi, MD University of Miami (UM)

Engineering, Coral Gables, FL University of Phoenix, Phoenix, AZ University of South Florida (USF) B.S. in Education with Technology

Education Cert., Tampa, FL University of Texas-Pan American, Edinburg, TX

University of Wisconsin-Madison, Madison, WI

U.S. Department of Agriculture, Beltsville, MD

Walden University, Minneapolis, MN Warner Southern College*, Lake Wales, FL

Webber International University*, Babson Park, FL

*Independent Colleges and Universities of Florida (ICUF) - institutions that participate in articulation agreement with the Florida Division of Community Colleges.

For additional information relating to articulation agreements, contact the Academic Advisement Department, The Honors College, the Career/Transfer Center at the campuses, the Collegewide Office of School and College Relations or visit www.mdc.edu/asa/articulation. asp.

Academic Programs

Baccalaureate Degre	es	55
---------------------	----	----

- Associate in Arts Degrees 56
- Associate in Science/Associate of Applied Science Degrees 63
 - Advanced Technical Certificate Programs 73
 - College Credit Certificate Programs 73
 - Career Technical Education Programs 79
 - Allied Health/Nursing Programs 85
 - Collegewide Schools 97
 - Special Academic and Other Programs 102
 - Time-Saving Degree Opportunities 109
 - Special Information 111

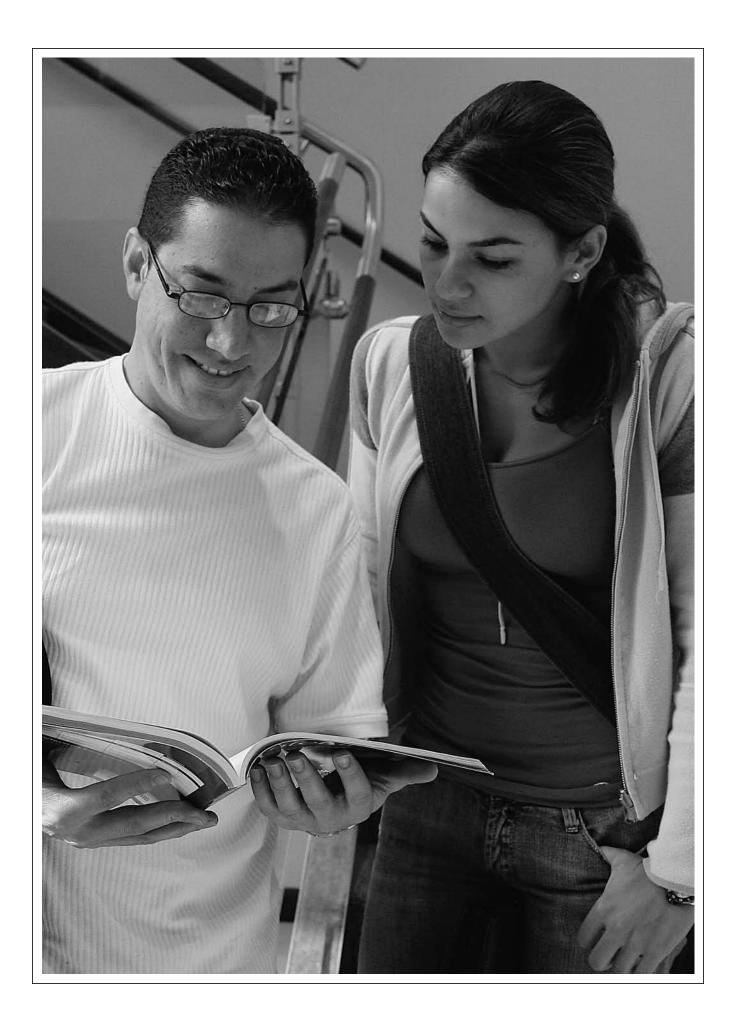












Baccalaureate Degrees

Bachelor of Science in Education

The Miami Dade College School of Education, through a dynamic and prepared faculty, offers academic programs to prepare teachers for the classrooms of the 21st century. Baccalaureate programs are approved by the Florida Department of Education.

- The Exceptional Student Education major prepares students to teach in Exceptional Student Education classes in Kindergarten through grade 12;
- The Secondary Mathematics Education major prepares students to teach in middle schools and high schools; and
- The Secondary Science Education major prepares students to teach in middle schools and high schools. These programs are designed to prepare students to gain the knowledge, skills, and dispositions that will enable them to be effective teachers. Programs have been designed to meet professional standards including certification requirements that will allow program graduates to become teachers immediately after graduation. Students in the baccalaureate programs are required to complete the student teaching component, this culminating activity consists of an internship in a school setting under the supervision of a clinically-trained educator.

Admission Requirements for the Bachelor of Science in Education Programs

Requirements for admission to junior standing in the School of Education include:

- Passing scores on the CLAST or General Knowledge (GK) Test.
 Waivers or exemptions are permitted for CLAST if GK scores are presented for admission. For more information about CLAST or GK, visit the Testing Office at one of the MDC campuses.
- Completion of an A.A. degree from a regionally-accredited college or at least 60 semester credit hours of postsecondary education from an accredited college or university.
- · A cumulative grade point average of

2.5 on a 4.0 scale in all postsecondary coursework (including common prerequisite coursework).

- Completion of all general education requirements and lower division state-mandated common prerequisites, including the following three Education common prerequisites:
 - o EDF 1005 Introduction to Education
 - o EDG 2701 Teaching Diverse Populations
 - o EME 2040 Introduction to Technology

Grades in these three courses must be no lower than C.

 Applicants must agree to submit to and clear background checks by the Florida Department of Law Enforcement (FDLE) and the Federal Bureau of Investigation (FBI). These clearance procedures are coordinated by the School of Education for all education students.

In addition, some school districts require drug testing for student interns and/or student teachers. Students with felony arrests may wish to consider this carefully and seek advice from an advisor before applying to programs in the School of Education.

Prospective students are advised to ask the School of Education for current information regarding specific programs of interest. Effective curriculum, a dynamic faculty, a supportive administration and a caring staff are in place to assure that students meet with success.

Bachelor of Applied Science with a Major in Public Safety Management

The Miami Dade College School of Justice offers a Bachelor of Applied Science (BAS) with a major in public safety management. Additional information can be found on page 46.

Bachelor of Science in Nursing

The Miami Dade College School of Nursing offers a Bachelor of Science in Nursing (BSN). Additional information can be found on page 46.

EDUCATOR PREPARATION Institute (EPI)

The Miami Dade College School of Education offers a Florida Department of Education approved program for individuals with bachelor's or higher degrees in fields other than education, to complete requirements that will lead to teacher certification in Florida.



56

<u>ww</u>w.mdc.edu

Associate in Arts Degrees

A.A. Degree Programs

Miami Dade College offers courses for a wide range of majors for the Associate in Arts degree. The A.A. degree prepares students to enter the junior year at four-year upper-division colleges and universities.

Four-year institutions vary in the required number and nature of courses a student needs to take during the freshman and sophomore years. The State University System (SUS) of Florida has identified common prerequisites for most majors. Students should see an advisor for additional information or refer to FACTS.org.

Students who have determined which profession or major they plan to pursue should become familiar with the requirements of the upper-division institutions. With the help of advisors and through using the degree audit, students may choose electives best suited for pursuit of a baccalaureate degree.

Students must be high school graduates or have a high school equivalency diploma (GED) to enroll in Associate in Arts degree courses.

Each area of concentration is comprised of courses specified by one or more of the universities in the SUS or by local private institutions. The first two years of these transfer programs contain specialized courses as prescribed by the respective university (refer to FACTS.org for the Common Prerequisite Manual information). All general education requirements are included. Students should be aware that credits earned in excess of the 60 credits required for graduation might not be accepted for transfer by the upper-division university.

Note: The A.A. degree does not prepare students to be eligible to take certification/licensure exams or to practice in the healthcare professions.

STUDENTS IN ALL PROGRAMS SHOULD CHECK THEIR INDIVIDUALIZED DEGREE AUDIT REPORT TO DETERMINE THE SPECIFIC GRADUATION POLICIES IN EFFECT FOR THEIR PROGRAM OF STUDY. REQUIREMENTS MAY CHANGE BASED ON THE YEAR

AND TERM A STUDENT ENTERS MIAMI DADE COLLEGE. THE DEGREE AUDIT REPORT INCLUDES CURRENT GRADUATION REQUIREMENTS. THE FINAL RESPONSIBILITY FOR MEETING GRADUATION REQUIREMENTS STATED IN THE DEGREE AUDIT REPORT RESTS WITH THE STUDENT.

A.A. Degree University Parallel Programs

Accounting

This program offers fundamental instruction in accounting and related subjects (such as economics or business). Students who wish to become an accountant may transfer to senior colleges or universities that offer baccalaureate degrees in accounting. Accountants work in a variety of settings such as corporations, small businesses, financial institutions and government agencies.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Agriculture

Agriculture is the art, science and industry of managing the growth of plants and animals for human use. Study at MDC emphasizes a strong foundation in the sciences of biology (including botany), chemistry and/or physics. The range of careers in agriculture extends from rural farming to urban landscaping, with numerous specializations in areas such as hydroponics, agricultural engineering, animal husbandry, food packing and processing and soil chemistry.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Anthropology

Anthropology studies all aspects of human life by evaluating society, evolution and culture. Course offerings prepare the student in the four fields of the discipline: cultural anthropology, physical anthropology, anthropological linguistics and archaeology. Most anthropologists are researchers who work in

museums or educational institutions. Students majoring in anthropology should plan to obtain the Ph.D. to fully succeed in the field.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Architecture

This program provides a foundation in areas such as architectural drawing, design and structure, as well as necessary courses in mathematics. Students may transfer to any of the universities in Florida or other states that have accredited programs in architecture. An architect designs and oversees the construction or remodeling of buildings, working with engineers and contractors toward a prescribed goal.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Area and Ethnic Studies

The undergraduate major in area and ethnic studies is a flexible, interdisciplinary program that emphasizes the history, politics and literature of various groups. Students can concentrate in a specific area such as African-American or Black Studies, American Studies, Asian Studies, Jewish Studies, Latin American Studies or Women's Studies. These studies could lead to careers in sociology, political science, or academic work in areas such as comparative literature or history.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Art or Art Education

This program offers hands-on instruction in media such as ceramics, jewelry making and metalsmithing, painting, photography, print making and sculpture. Additionally, the curriculum includes design, art history and education classes, so that students may work as artists or art teachers.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Atmospheric Science and Meteorology

To transfer to a four-year program in atmospheric science and meteorol-

ogy, students must take science and math courses as well as introductory courses in meteorology. Job opportunities may include weather forecasting in aviation, marine or shipping companies, government agencies, broadcasting or transportation industries. Additionally, meteorologists may work with other scientists researching phenomena such as volcanoes, hurricanes and global warming.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Pre-Bachelor of Arts

The Pre-Bachelor of Arts program at MDC is designed for students who seek a general degree program and greater freedom to explore intellectual fields of their particular interest. This program challenges students to assume major responsibility for the direction of their own education. The program also provides a broader range of educational opportunities than in specialized programs. At the upper division, a major theme or area of concentration is usually required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Biology

Biology, or life science, is the study of all aspects of living organisms, emphasizing the relationship of animals and plants to their environment. This program provides the first two years of a four-year curriculum for students planning to major in biology, botany, zoology, marine biology, ecological studies or microbiology. Biology majors may also enter professional schools in medicine, dentistry, veterinary medicine, optometry or podiatry.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Biotechnology (Interdisciplinary Sciences)

Biotechnology is the practice of using living organisms to make products or improve processes. It combines elements of biology, chemistry, engineering, and computing. This program provides the first two years of a four-year curriculum for students planning to major in biotechnology, biology, chemistry, or bioinformatics. Majors

may also enter professional schools in related disciplines.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Building Construction

This program is for students primarily interested in the construction of buildings rather than their architectural design. Coursework includes math and science subjects as well as courses in business and construction. A four-year degree in this program will prepare students to enter the building construction industry at the management level.

For further information please visit bttps://sisvsr.mdc.edu/ps/sheet.aspx

Business Administration

Business Administration includes courses in accounting, business law and finance, as well as more generalized courses in mathematics. Students may transfer to senior colleges or universities that offer baccalaureate degrees in business administration. Ultimately, graduates may work in the fields of banking, finance, marketing, information systems or real estate.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Chemistry

Chemistry is the science that investigates the composition, properties and change of properties of elementary forms of matter. In addition to coursework in chemistry, the A.A. is a science and math-intensive program that includes courses in botany, biology, physics, geometry and calculus. Chemists may work as researchers, analysts, or quality control specialists in companies that manufacture anything from pharmaceuticals to food products. Additionally, students may pursue careers in medicine, environmental science, chemical engineering or many other fields.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Computer Arts Animation

This program enables students to develop creative and artistic skills in conjunction with advanced computer skills. Studies include basic drawing and figure drawing, use of computer animation software and general education, as well as evaluation of trends and standards in the animation industry for television and film.

For further information please visit https://sisvsrmdc.edu/ps/sheet.aspx

Computer Information Systems (CIS)

CIS focuses on the structure, management and control of information resources on computers. Coursework includes business and math classes, as well as courses in information systems and programming languages. Students





transfer to four-year institutions and major in computer information systems, computer and information sciences, information -sciences, or management information systems. Degrees lead to careers in systems analysis, computer application programming, database management, network services and IT support.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Computer Science

As the name suggests, Computer Science is a more science-intensive program than CIS. In addition to courses in programming and applications, the program provides a thorough grounding in mathematics, biology, chemistry and physics. Computer scientists design technical programs, do research, create new technologies, develop operating systems, code device drivers, write specialized programming languages and implement complex applications in a variety of settings. Computer Science requires skills in mathematics and physics. Students must complete Calculus II and Physics with Calculus II before entering their junior year.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Criminal Justice Administration

The Associate in Arts in Criminal Justice Administration is a transferable degree. In addition to coursework focusing on criminal justice and law, this program includes classes in history, sociology and political science. Pre-law students will find this program suitable, as well as those seeking bachelor's degrees in public safety related fields such as law enforcement, corrections, security and loss prevention, probations and parole, emergency management, crime scene investigation, and criminal justice. The A.A. degree offers students a seamless transition to the MDC's Bachelor of Applied Science degree with a major in public safety management.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Dance

Studio classes feature modern dance and ballet, and the program also

includes theoretical courses. This curriculum meets the pre-professional and general education course requirements for transfer, but students should meet with an advisor to discuss the specific requirements of the four-year institution they plan to attend. Often, departments in four-year institutions will require an audition. This program is designed to prepare students pursuing careers in choreography or the performance of ballet and jazz or contemporary forms of dance. The program is also suited for students wishing to become teachers of dance.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Dietetics

This program provides the science education needed to transfer to a four-year program in dietetics. Chemistry, biology, anatomy and physiology are emphasized in this program. Dieticians and nutrition specialists may work as meal planners in institutions such as schools and hospitals, in the food products or health and fitness industry, or in a range of health and medical professions.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Drama or Drama Education

This is a comprehensive program in all aspects of theatrical production, including lighting, costuming, make-up and other aspects of stagecraft. Students participate in stage productions which are presented to the public throughout the academic year. While this program does provide the necessary coursework to transfer to a four-year institution, some departments in four-year colleges and universities will require an audition or portfolio, depending on the student's intended area of study. Careers in drama include education, theatrical production, casting, acting and a wide variety of stagecraft.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Economics

Economics is the study of how people produce, trade and consume goods and services. The A.A. degree program emphasizes fundamental coursework in business and mathematics. While many students choose to obtain graduate degrees, economists with bachelor's degrees can work in fields such as business economics and forecasting, urban real estate and regional planning, analysis of markets and industrial regulation, management consulting and in banking and financial services.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Engineering

Miami Dade College offers ten engineering A.A. degree programs: architectural, chemical, civil, computer, electrical, industrial, mechanical, ocean, science and surveying and mapping. Each has its own curriculum to best prepare students for transfer to a four-year institution. Interdisciplinary fields can include the study of biomechanics, kinesiology, nutrition and related areas.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

English Literature & English Education

English literature is the study of great written works and how they were shaped by historical and cultural events. This program also includes education courses to prepare students for careers as teachers. However, students who graduate with a bachelor's degree in English are equipped to work in publishing, and may be qualified to work as a writer in virtually any field.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Environmental Studies

Environmental Studies examines environmental issues from both ecological and sociological standpoints. It is an interdisciplinary major which combines life sciences, social sciences and the humanities. Students at MDC take mostly science and mathematics courses to prepare for transfer into a baccalaureate program. This field is projected to grow in the 21st century, as the need for environmental researchers, analysts, engineers and journalists will grow.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Exercise Science

Exercise Science studies the relationship of physical exercise to human health and disease prevention. This program at MDC prepares students for transfer with coursework in human anatomy and physiology, nutrition, health and exercise. Exercise science is a growing field with professionals working in diverse settings, such as hospitals and health clubs, research facilities and sports teams. Specialists also work in corporate, industrial and educational environments.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Foreign Languages

Foreign language programs train students to achieve reading, writing and verbal fluency in one or more foreign languages. The demand for interpreters, translators and language instructors is projected to grow in the 21st century, and graduates with bachelor's degrees can work almost anywhere in the world for corporations, businesses, governments non-profit agencies or schools.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Forestry

Forestry studies the ecology and economy of forest management. Students should be aware that the University of Florida is the only in-state university offering this program, with majors in forest resources, and conservation and urban forestry. Foresters manage, develop and protect woodlands and their resources (timber, water, wildlife, forage and recreational areas).

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Geology

Geologists study the structure, composition and history of the Earth. This program provides basic coursework in geology, calculus, biology and chemistry. Some examples of employers of geologists include agencies targeting pollution or urban waste, corporations searching for new sources of petroleum or natural gas and research organizations studying volcanoes or earthquakes.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Graphic or Commercial Arts

Graphic Arts emphasize studio courses in design, drawing and digital techniques. Graduates may work in advertising agencies, design studios, exhibit and display businesses, department stores and industrial organizations.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Health Services Administration

This program provides the fundamental science coursework for transfer to a baccalaureate program in health services administration. The baccalaureate degree prepares students for entry-level management positions in health services delivery organizations. Persons licensed in clinical health often pursue this degree, as do medical care professionals who do not have an undergraduate degree. The baccalaureate also prepares individuals for graduate study in this field.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

History

History is the study of the events, patterns and cycles that have shaped our present world. Depending on the area of specialization, history may examine political events, social evolution, cultural developments or a combination of these. The two-year program at MDC prepares students for transfer with courses in American, African-American and Latin American history, and surveys of American, English and world literature. Professional historians (e.g. museum curators and educators) tend to pursue the doctoral degree, but the bachelor's degree in history can prepare students for graduate work in law or political science, and apply to careers requiring good writing or analytical skills.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Hospitality Administration/ Travel & Tourism Management

This field combines traditional business and management education with training specific to the tourism, travel and hospitality industries. Careers in the hospitality/travel and tourism industry include hotel and restaurant, food and beverage management, and entry and mid-level positions with cruise lines, airlines, land-based tourism companies, as well as travel agencies.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Interior Design

Interior Design studies combine architecture, art and design courses, training the student to understand the relation of interior spaces to the total design of structures (including architecture, landscaping and lighting). An interior designer encounters a variety of challenging work, available in professional, institutional and private settings.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

International Relations

Students can obtain the coursework necessary to transfer to four-year programs in international relations, a major which usually includes political science and economics courses. Employment opportunities are available at the baccalaureate level in business, government, journalism and political organizations. Many students, however, go on to pursue graduate work or law school.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Landscape Architecture

The A.A. in landscape architecture prepares students for transfer by offering courses in architecture, horticulture and botany. Landscape architects plan the arrangement of outdoor areas for public use and enjoyment, making recommendations for the types and location of plantings, circulation, drainage and other harmonizing improvements with existing land features and architectural structures. The University of Florida and Florida International University offer the only in-state programs in landscape architecture.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Pre-Law

Although no specific area of study is mandatory for the Pre-Law major, the

MDC program offers courses in criminal justice, government, history and business to best prepare a student for future coursework. Students should work with an advisor to determine the best four-year degree to pursue.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Mass Communication/ Journalism

Mass communication examines the role of media in society. Coursework includes media criticism and analysis, U.S. history and government, sociology and a study of the broadcast, cable and Internet industries. Depending upon the student's area of interest, study may also include journalism, and television and radio production. A bachelor's in mass communication equips one to work in journalism, corporate communication, or in certain business or managerial positions in television or radio.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Mathematics

The mathematics A.A. emphasizes math and science training, and includes coursework in computer programming. Mathematics is both a science and a tool essential for many kinds of work in industry and business. As a result, employment opportunities for graduates

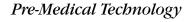
trained in mathematics have expanded rapidly in industries such as aviation and communications, sciences such as oceanography and meteorology, and government agencies such as the U.S. Census Bureau.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Pre-Medical Science/ Pre-Dentistry/Pre-Physician's Assistant

The A.A. degree does not prepare students to be eligible to take certification/ licensure exams or to practice in the medical science, dentistry or physician's assistant (P.A.) professions. This program is designed to meet the first two years of required courses for students planning careers in medicine and dentistry. Pre-medical education should include a foundation in chemistry, biology, mathematics, and physics, as well as a broad education in the humanities and social sciences. This program enables the student to transfer to colleges or universities that offer a baccalaureate degree in P.A., or other pre-medical degrees such as biology. Admission to a professional school is dependent upon academic coursework and scores on a national test. Applicants should have a minimum "B" average.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx



The A.A. degree does not prepare students to be eligible to take certification/licensure exams or to practice in the medical technology profession. This program provides the science coursework necessary to transfer to a four-year baccalaureate program. Students must transfer to an upper-division institution for the third year. Generally, the fourth year is spent in a clinical setting, usually in a hospital where students learn laboratory techniques. Members of this profession work in clinical laboratories performing the wide variety of tests which aid physicians in the diagnosis and treatment of patients. Most medical technologists work in hospitals, physician's public health laboratories, universities, or in industry.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

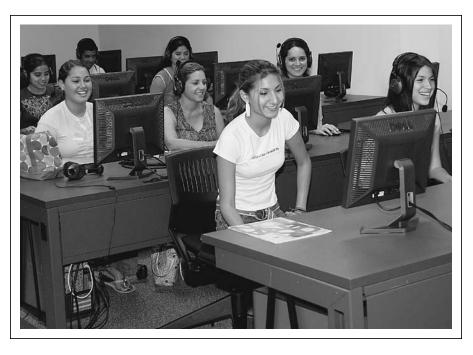
Music or Music Education

Music or music education students must be proficient in music theory and music history as well as be a skilled performer. Careers in music include individual and group performance, conducting, composing and teaching. Music graduates may also have jobs working in ancillary professions such as retail, publishing and recording.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Pre-Nursing

The A.A. degree does not prepare students to be eligible to take certification/licensure exams or to practice in the nursing profession. This program includes the pre-professional courses necessary for admission to a Bachelor of Science in Nursing (BSN). The first two years at the community college level consist of general education and science courses. The professional nursing courses are taken in the last two years at the upper division. Upper-division programs are limited access, require an above average academic record, and have widely differing pre-professional course requirements. Therefore, students are advised to check with the nursing department of the senior institution they wish to attend. Most upperdivision programs also offer a track for registered nurses (R.N.s) completing an



Associate in Science degree to earn a BSN degree.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Pre-Occupational Therapy

The A.A. degree does not prepare students to be eligible to take certification/licensure exams or to practice in the occupational therapy profession. The A.A. prepares students for transfer by offering courses in human anatomy and physiology, human behavior, growth and development, along with more basic science courses. Occupational therapists use creative/recreational activities and manual skills to evaluate and treat physical and mental illnesses. Employment possibilities include civilian, military, and government hospitals, rehabilitation centers, long-term and extended-care facilities, community mental health centers and clinics for the physically limited.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Pre-Optometry

The A.A. degree does not prepare students to be eligible to take certification/licensure exams or to practice in the optometry profession. This program provides the fundamental science coursework necessary to transfer to a four-year institution, where students can obtain a degree in an appropriate field, such as biology. To be an optometrist, one must earn the Doctor of Optometry (O.D.) professional degree. A bachelor's degree with a strong science background is required for admission. Graduates must pass a state licensure exam in order to practice.

Optometrists prescribe glasses, contact lenses and visual therapy, and offer non-surgical treatment of eye diseases and the rehabilitation of patients with visual disabilities.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Pre-Pharmacy

The A.A. degree does not prepare students to be eligible to take certification/licensure exams or to practice in the Pharmacy profession. The Pre-Pharmacy program provides the math and science education needed to transfer to a baccalaureate program. Career opportuni-

ties in pharmacy include positions in a hospital or institutional pharmacy, in industry or manufacturing, in a retail or clinical pharmacy, in government service, in pharmacy administration, in laboratories and in pharmaceutical journals. The University of Florida, Florida A&M University and Nova Southeastern University are the only in-state institutions that offer the baccalaureate and/or doctorate in this field.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Philosophy

Philosophy investigates the fundamental principles of being, knowledge or conduct. There are numerous systems of philosophical discourse and the two-year program introduces students to many of these. Unless a student wishes to earn a doctorate and teach at the college level, a bachelor's degree in philosophy is generally useful only in indirect ways. It can prepare students for graduate work in other fields such as law or theology, and the study of philosophy usually sharpens a student's analytic skills.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Physical Education Teaching and Coaching

This program is designed for students interested in pursuing careers in physical education at the pre-school, elementary, secondary, college or community program level. This curriculum meets the pre-professional and "General Education" course requirements for transfer, but due to variations in prerequisites, students should confer with a departmental advisor. Employment opportunities include teaching, coaching, sports communications, sports psychology, sports history, sports sociology and sports medicine. Target populations include the able-bodied, physically limited and aged, and the environments include educational, governmental, public and/or private settings.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Pre-Physical Therapy

The A.A. degree does not prepare students to be eligible to take certification/

licensure exams or to practice in the Physical Therapy profession. This program prepares students for transfer by providing intensive coursework in mathematics and science. Most upper-division programs have selective admissions and transfer requirements vary, so students should work with an advisor in planning a program of study. Physical therapists help rehabilitate individuals who have been disabled by injury or disease. They usually work in healthcare settings such as hospitals or nursing homes.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Physics

Physics is the study of the motion and force of energy and matter. This science is applied to different kinds of energy and matter, as in thermodynamics, astrophysics, nuclear physics and wave motion analysis. The A.A. coursework provides a fundamental education in mathematics and science topics so that students may transfer to pursue their area of interest. Careers in research are available both in government agencies and private industries, as well as in educational institutions, though in most cases graduate degrees are required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Political Science

Political science examines the role and effects of government actions on society. The A.A. program prepares students for transfer with coursework in history, literature, economics and government. Political scientists may work in various government jobs, or may work as lobbyists, researchers, political analysts or journalists. In addition to graduate work in the field, a bachelor's degree in political science also prepares students for law school.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Psychology

Psychology is the science of human behavior and mental processes that affect mental and physical health. A.A. coursework covers the science and mathematics subjects needed to transfer to a four-year institution. While the bachelor's degree in psychology could



be useful in a number of careers, professional psychologists must continue to graduate study. Employment opportunities with a graduate degree include teaching or counseling in a wide variety of settings.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Public Administration

This is an interdisciplinary program gearing the combined study of business, government and economics toward a career in the public sector. Although some students pursue graduate degrees, those with bachelor's degrees may obtain work managing budgets, or developing programs and policies in government, education and non-profit settings.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Recreation

To prepare for upper-division work in recreation, students take courses in accounting, economics, human anatomy and physiology, and health sciences. This curriculum meets the pre-professional and general education course requirements for transfer, but due to variations in upper-division requirements, students should confer with an advisor. Recreation professionals often work in youth agencies, but may also develop careers in industries such as healthcare, fitness, and travel and tourism.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Religion

Religion majors may compare religions of the world, study the inherent values of various religions, examine the impact of religion on culture and society and explore one religious system in depth. The two-year curriculum offers basic coursework in world and western religions, as well as an array of history courses. Students who obtain the bachelor's degree may pursue graduate theological studies or a ministerial career or they may seek work immediately in a religious organization.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Social Work

This program prepares students for upper-division education in social work by offering courses in science and sociology. Social workers provide the link between organized social services and individuals and families unable to provide for themselves or needing assistance in problem solving. Potential employers include hospitals, mental health centers, rehabilitation centers, government agencies, schools and correctional institutions.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Sociology

Sociology is the systematic study of human interaction, that is, society, social relationships, social structures and social change. Coursework emphasizes liberal arts topics such as literature, cultural anthropology, theatre appreciation and history, as well as introductory courses in sociology. Graduates with a bachelor's degree can work within community organizations, government agencies and the criminal justice field. Many students go on to pursue graduate degrees and work in social policy, public administration, law, government or social services.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Speech Pathology and Audiology

This program provides fundamental coursework in biology and communications so that students may transfer to a four-year institution. The curriculum leading to the baccalaureate degree is usually designed as pre-professional education for a graduate program. Speech language pathologists and audiologists provide clinical services to individuals with speech, language and hearing impairments. Eligibility for the Certificate of Clinical Competence from the American Speech-Language-Hearing Association and state licensure are not possible until requirements for the graduate degree are met.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Teaching

This program prepares students to major in education by providing a comprehensive curriculum in the areas of science, liberal arts and the pedagogy necessary for transfer to Florida colleges and universities, including Miami Dade's baccalaureate programs offered by the School of Education. Areas of specialization include elementary, pre-elementary/early childhood, exceptional student and secondary education. Available areas of specialization in secondary education are biology, chemistry, earth/space science, English and foreign language, mathematics, physics and social science. Additionally, a specialization in vocational secondary education is available. A curriculum appropriate to each area of specialization is featured in the specific A.A. program. Students should work with an advisor to determine the appropriate coursework for transfer into their intended area of study. The MDC Bachelor of Science in Education degree, approved by the Florida Department of Education, prepares students to enter the teaching profession. Areas of specialization include: exceptional student education (K-12); secondary mathematics education (6-12) and secondary science education (6-12).

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Pre-Veterinary Medicine

The A.A. degree does not prepare students to be eligible to take certification/licensure exams or to practice in the Veterinary Medicine profession. Veterinary medicine is the study of the diagnosis, treatment and control of disease and injuries among animals. Veterinarians may specialize in the health and breeding of certain animals, performing surgery, prescribing and administering drugs and vaccines and research. Veterinarians may also concentrate on the inspection of meat, poultry and other foods as part of federal and state public health programs. The University of Florida is the only state school that offers a veterinary program.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Associate in Science/Associate of Applied Science Degrees

A.S. College Credit Programs

The two-year Associate in Science degree is designed for individuals looking for specialized study at the college level leading to immediate entry into a career upon graduation. The A.S. degree programs are comprised mostly of courses directly related to the identified career area. The remaining courses are comprised of general education courses such as English, oral communications, math/science, behavioral/social science and humanities. Several of the A.S. degree programs are covered by a statewide articulation agreement that allows transfer to the corresponding bachelor's degree program at Florida public universities (refer to FACTS.org for the Statewide Articulation Manual information). In addition, many of the other A.S. degree programs have established articulation agreements with selected universities. The general education component of the A.S. degree is transferable to the upper divisions. Allied Health programs are offered at the Medical Center Campus only. See page 85.

STUDENTS IN ALL PROGRAMS SHOULD CHECK THEIR INDIVIDUALIZED DEGREE AUDIT REPORT TO DETERMINE THE SPECIFIC GRADUATION POLICIES IN EFFECT FOR THEIR PROGRAM OF STUDY. REQUIREMENTS MAY CHANGE BASED ON THE YEAR AND TERM A STUDENT ENTERS MIAMI DADE COLLEGE. THE DEGREE AUDIT REPORT INCLUDES CURRENT GRADUATION REQUIREMENTS. THE FINAL RESPONSIBILITY FOR MEETING GRADUATION REQUIREMENTS STATED IN THE DEGREE AUDIT REPORT RESTS WITH THE STUDENT.

Accounting Technology Associate in Science

Total credits required for the degree: 64

The Accounting Technology program is designed mainly for students who intend to seek immediate employment

in the field of accounting and for those presently employed in business but seeking advancement. Completion of this program prepares the student for employment as a paraprofessional in the accounting field. Instruction emphasizes accounting competencies required at the entry-level while also providing the student with a broad business overview and the required general education courses. The Associate in Arts degree is also available to the student planning to transfer to a senior institution after graduation from Miami Dade College. Please consult a business advisor about additional courses for such plans.

For further information please visit https://sisvsrmdc.edu/ps/sheet.aspx

Air Conditioning Refrigeration/Heating Systems Technology Associate in Science

Total credits required for the degree: 64

The Air Conditioning Refrigeration/ Heating Systems Technology program prepares the student to perform engineering design of air conditioning environmental control systems. The graduate will qualify for positions as an engineering technician with a consultant engineer, architect, contractor, project manager, sales engineer, maintenance or operations supervisor, and other similar air conditioning positions. The graduate may apply the degree towards a state of Florida Mechanical Contractor's License. Consult with an air conditioning advisor prior to registration.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Architectural Design and Construction Technology Associate in Science

Total credits required for the degree: 66

The Architectural Design and Construction Technology program offers courses that enable the student to translate the design and systems of the architect into graphic and written form and assists the professional in rendering architectural services. The attainment of theses skills qualifies the student for several specialties, such as, architectural drafting, cost estimating, material selecting, specification writing and preparing presentations, drawings and models.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Automotive Service Management Technology Associate in Science

Total credits required for the degree: 68

The Automotive Service Management Technology program is offered for students who have completed or are concurrently enrolled in a nationally certified and approved 1,440 contract-hour Automotive Mechanics program. The graduate will be prepared to progress from an automotive technical position to administrative, service or sales positions in the automotive sales and services industry. Students are required to possess a high school diploma or equivalent in order to complete the A.S. degree in Automotive Service Management Technology. To be awarded the Associate in Science degree, a student must complete the general education requirements, courses in business and management and other technical and oral communication courses, in addition to completing the certified Automotive Mechanics program at a technical center.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Aviation Administration Associate in Science

Total credits required for the degree: 64.

The Aviation Administration program is designed to prepare students to succeed in the dynamic aviation industry. The program focuses on the necessary entry-level skills for most aviation employment fields. The air traffic control option provides students with the opportunity to be hired with the Federal Aviation Administration (FAA).



Accordingly, graduates find opportunities in airline sales and reservations, air cargo, airport operations and many dataentry positions required by the airline management.

Additional Information: Contact the Aviation Department at 305-237-5950 for information and advisement.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Aviation Maintenance Management Associate in Science

Total credits required for the degree: 83

The Aviation Maintenance Management is a special program in which 45 semester hours are awarded to students who possess the Federal Aviation Administration Aircraft and Powerplant (A&P) certificate. The 38 additional required credits consist of

general education and aviation requirements needed by the licensee for the Associate in Science degree.

Additional Information: Contact the Aviation Department at 305-237-5950 for information and advisement.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Biomedical Engineering Technology Associate in Science

Total credits required for the degree: 68

The Biomedical Engineering Technology program prepares students for employment as biomedical engineering technicians/technologists and in related occupations in health-related fields. The program also provides supplemental training for persons currently or previously employed in these occupations. The program focuses on the

understanding and applying of concepts in electronics, in addition to trouble-shooting techniques, to digital, microprocessor, or computer-based systems as they relate to medical devices. Assembly, installation, operations maintenance, calibration, trouble-shooting, repairing and elementary design on medical systems are taught using an integrated, applied and theoretical approach.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Biotechnology Associate in Science

Total credits required for the degree: 61

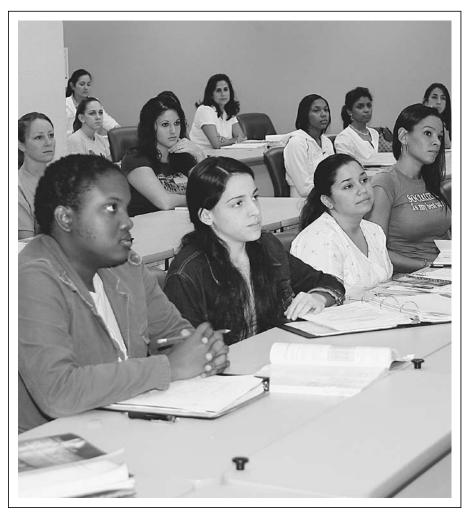
The Biotechnology Program exposes students to a breadth of topics and emphasizes hands-on learning in a variety of techniques and procedures necessary for employment in the bioscience industry. The program includes modules designed to enhance critical thinking and technical communication skills. It focuses on developing broad transferable skills and stresses understanding and demonstration of laboratory/industry protocols and regulations, bio-safety and safe operating procedures, ethical and environmental issues, product generation/formulation, quality control, validation, instrumentation, and computing.

Building Construction Technology Associate in Science

Total credits required for the degree: 64

The Building Construction Technology program is designed to furnish technically trained personnel for the building construction industry. The graduate may work with a contractor as part of the administrative team in such entry-level job positions as those leading to estimators, job coordinators or project managers. Technical jobs may also be available in the following areas: land and project developers; technical sales for building materials, systems, and equipment; with local, state, and federal government agencies as well as various financial institutions.

For further information please visit bttps://sisvsr.mdc.edu/ps/sheet.aspx



Business Administration Associate in Science

Total credits required for the degree: 64

* This program transfers to four-year institutions. See department for information.

The Business Administration program trains individuals to assume management or supervisory positions in business, industry, and government. It provides basic skills in a broad range of business functions including accounting, computer usage, management and marketing. Successful completion of this program earns the student entry into any university in the State University System as part of the A.S. to B.S. program.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Civil Engineering Technology Associate in Science

Total credits required for the degree: 63

The Civil Engineering Technology program is designed for those students who wish immediate job placement prior to or after graduation. This program also satisfies many of the civil engineering freshman and sophomore requirements for the Bachelor of Engineering Technology degree offered by certain universities. Consult your Civil Engineering advisor prior to registration.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Computer Engineering Technology Associate in Science

Total credits required for the degree: 68

The Computer Engineering Technology program prepares students for employment as computer engineering technicians/technologists and in related occupations in electronics. It also provides supplemental training for persons currently or previously employed in these occupations. The program focuses on the understanding and applying of hardware and software concepts, in addition to troubleshooting

techniques to digital, microprocessor or computer-based systems. Assembly, installation, operation, maintenance, calibration, troubleshooting, repairing and elementary designs of medical systems are taught using an integrated and theoretical approach.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Computer Information Technology Associate in Science

Total credits required for the degree: 63

The Computer Information Technology program provides an opportunity for students to establish a basic foundation in computer applications. Graduates are prepared for positions as microcomputer support specialists, user support specialists, applications system specialists and computer information managers to meet the demands of today's automated offices. In addition, program objectives are designed to assist students in their development of interpersonal and communication skills required by office professionals.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Computer Programming and Analysis Associate in Science

Total credits required for the degree: 63

The Computer Programming and Analysis program provides an opportunity to establish a basic foundation in computer programming in scientific, commercial, industrial and government information technology applications. Graduates are prepared for positions as entry-level application programmers, programmer specialists, computer programmers and programmer analysts. There is only one A.S. program for Computer Programming and Analysis. Students may select one of the two options: Application Programming or Game Development Programming. The student will be awarded the Computer Programming and Analysis degree only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Court Reporting Technology Associate in Science

Total credits required for the degree: 73.

The Court Reporting Technology program provides training for students who desire to enter the field of court reporting. Court reporters play an important part in the judicial process by providing an official record of court proceedings. They are employed by the court or work on a freelance basis and earn an excellent salary. Upon successful completion of the prescribed program of study, the student will earn an Associate in Science degree.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Criminal Justice Technology: Basic Law Enforcement Associate in Science

Total credits required for the degree: 64

The Associate in Science degree in Criminal Justice Technology: Basic Law Enforcement is a technical degree. This degree is for the student who wishes to continue his/her education following completion of the Basic Training Academy in Law Enforcement. The Criminal Justice Technology program is designed to provide competencies for the diverse field of criminal justice. Upon successful completion of the courses within the program, the student will be awarded the Associate in Science degree in Criminal Justice Technology. There is only one A.S. program in Criminal Justice Technology. Students may select one of the three options available: basic law enforcement, generic or corrections, but the degree is awarded only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Criminal Justice Technology: Corrections Associate in Science

Total credits required for the degree: 64

The Associate in Science degree in Criminal Justice Technology-Corrections is a technical degree. This degree is for the student who wishes to continue his/



her education following completion of the Basic Training Academy in state corrections or the Basic Training Academy in county corrections. The Criminal Justice Technology program is designed to provide competencies for the diverse field of criminal justice. Upon successful completion of the courses within the program, the student will be awarded the Associate in Science degree in Criminal Justice Technology. There is only one A.S. program in Criminal Justice Technology. Students may select one of the three options available: basic law enforcement generic or corrections, but the degree is awarded only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Criminal Justice Technology: Generic Associate in Science

Total credits required for the degree: 64

The Associate in Science degree in Criminal Justice Technology: Generic is a technical degree. This degree is for students seeking non-sworn positions in public safety professions. The Criminal Justice Technology program is designed to provide competencies for the diverse field of criminal justice. Upon successful completion of the courses within the program, the student will be awarded the Associate in Science degree in Criminal Justice Technology. The A.S. degree in Criminal Justice Technology: Generic opens up entry-level non-sworn positions in juvenile justice, private sector security, law enforcement, corrections, and parole and probations. There is only one A.S. program in Criminal Justice Technology. Students may select one of the three options available: basic law enforcement, generic or corrections, but the degree is awarded to the student only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Database Technology Associate in Science

Total credits required for the degree: 63

The Database Technology program is designed to provide an opportunity to establish a basic foundation in the field of database administration for employment in commercial, industrial and government institutions. Graduates are prepared for positions as database administrators and database developers. There is only one A.S. program in Database Technology. Students may select from one of the four options listed, but the A.S. in Database Technology will be awarded to the student only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Drafting and Design Technology Associate in Science

Total credits required for the degree: 62

Drafting and Design Technology is a highly technical program which will adequately equip the student with the ability and skills necessary for acquisitions and advancement in the engineering technical aid and professional drafting fields. Specialized areas within the program include such specifics as structural steel drafting, welding, piping, technical illustration and computeraided drafting and design.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Early Childhood Education Associate in Science

Total credits required for the degree: 63

The Early Childhood Education program provides training for students who desire to enter the field of early childhood education. It combines classroom instruction and field work experience with an emphasis on developmentallyappropriate programming for young children. Within the program there is the option of earning a child development associate equivalency certificate. This option is designed for those students who intend to seek immediate employment in the field. Students who complete the A.S. degree in Early Childhood Education may also earn the A.A. degree in Teaching (Pre-Elementary/ Early Childhood) with some additional

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Electronics Engineering Technology Associate in Science

Total credits required for the degree: 68

This program transfers to four-year institutions. See department advisor for information.

The Electronics Engineering Technology program prepares students for work as technicians in various fields of electronics technology. No previous experience is required to enter. Courses offered cover basic and advanced electrical circuits, semi-conductors, integrated circuits, pulse circuits, digital computer circuits, electrical machinery, communication systems and industrial control. Theory and laboratory experience is provided.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Electrical Power Technology Associate in Science

Total credits required for the degree: 68

The Electrical Power Technology program prepares students for employment as an electrical, mechanical, instrumentation and control technician or in a related occupation in a nuclear power generation facility or in a related occupation in electrical power. Graduates of this program will be prepared for entry-level employment in electrical power technology related occupations. This program content includes, but is not limited to, DC/AC circuits, power generation, instrumentation and on broad, transferable skills and an understanding of the Electrical Power industry.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Environmental Science Technology Associate in Science

Total credits required for the degree: 64

Students pursuing the Environmental Science Technology Associate in Science degree will be able to conduct various forms of environmental sampling and analysis for either the public or private sector. There are five focus options,

which give students the opportunity to specialize in a particular area of environmental science. The options are: assessment/safety compliance, watershed management, environmental science technology, hazardous materials technology and conservation ecology. Students receiving this degree will have a wide variety of skills that can be applied to the expanding environmental job market. There is only one A.S. program in Environmental Science Technology. Students may select from one of the five options listed above, but the A.S. in Environmental Science Technology will be awarded to the student only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Film Production Technology Associate in Science

Total credits required for the degree: 64

The Film Production Technology program prepares students to learn all aspects of the film industry through hands-on, production-oriented classes both in the studio and on location. Students can receive training in cinematography, lighting, audio recording and editing. High-end equipment is used by students to shoot and edit sound 16mm film. Students are also exposed to video and the business aspects of the industry.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Financial Services Associate in Science

Total credits required for the degree: 64

The Financial Services program is designed to meet the needs of students who plan to seek employment with commercial banks, stock brokerage companies and related financial organizations. It is also planned for students who are currently employed and desire advancement to positions of greater responsibility with financial organizations. This program meets most of the requirements for the American Institute of Banking diploma/certificates. The Associate in Arts degree is also available to the student planning to transfer to a senior institution after graduation from MDC. Consult an advisor about which additional courses are included in that program. There is only one A.S. program in Financial Services. Students may select from one of the three options, but the A.S. in Financial Services will be awarded to the student only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Fire Science Technology Associate in Science

Total credits required for the degree: 60

The Fire Science Technology program prepares students for a wide variety of technical positions in the area of fire prevention and control. Students will learn about safety factors, building code requirements, national and local standards, hazardous materials, supervision and management skills, hydraulics, fire apparatus, tactics and strategy. The program has been designed to meet both the Florida Fire Fighters Pre-Officer Requirements and the NFPA 1021 Fire

Officer Level Two Requirements.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Funeral Services Associate in Science

Total credits required for the degree: 72

Students in the Funeral Services program are given a broad understanding of all phases of funeral home operations as well as the public health responsibilities of the funeral director and embalmer. This Funeral Service program is accredited by the American Board of Funeral Service Education Inc. (ABFSE), 3432 Ashland Ave., Suite U, St. Joseph, MO 64506, Office: 816-233-3747, FAX: 816-233-3793, e-mail: exdir@abfse.org, URL: www.abfse.org, approved by the Florida State Board of Funeral Directors & Embalmers and the Funeral Service Boards of most states. Students who plan Funeral Service licensure in other states must register as student trainees





with their respective state boards prior to enrollment at Miami Dade College in the Funeral Service education curriculum. Effective 2001-2, The Department of Funeral Sciences required that all students must pass both sections of the International Conference of Funeral Service Examining Boards Inc. exams with a score of 75 or higher as a requirement for graduation from Miami Dade College. The annual passage rate of first-time takers on the National Board Examination (NBE) for the most recent three-year period for this institution and all ABFSE-accredited funeral service education programs is posted on the ABFSE Web site (www.abfse.org).

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Graphic Arts Technology Associate in Science

Total credits required for the degree: 64

The Graphic Arts Technology Associate in Science degree program is designed to give students a comprehensive background in the printing and publishing industry. The degree will give students employability skills for the printing and publishing industry. Miami Dade College's graphic communications department offers one of the most extensive electronic publishing teaching facilities in the United States. Students take coursework on production workflow processes from the design concept to the finished printed product. Students will get hands-on experience with graphic design, estimating, color theory, electronic scanning, page makeup, imposition, electronic color retouching and presswork. This A.S. degree may transfer to upper-division universities offering a Bachelor of Science degree in Graphic Arts or Graphic Communications.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Graphic Design Technology Associate in Science

Total credits required for the degree: 64

The Graphic Design Technology program is designed to give creative students a rewarding and challenging career in the artistic field of printing. publishing, electronic communication and advertising. An art aptitude is required or supplemental classes may be taken. Miami Dade College's graphic department offers one of the most extensive electronic publishing teaching facilities in the United States. This degree will give students employability skills for the printing, publishing, electronic communication, design or advertising industries. This A.S. degree may transfer to upper-division universities with a Bachelor of Science degree in Graphic Design.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Graphic Internet Technology Associate in Science

Total credits required for the degree: 62

The Graphic Internet Technology program is designed to prepare creative students for a rewarding and challenging career as a Web designer. Students will develop a wide variety of internet communications skills and will learn to design, produce and distribute communications with the internet. Graduates will work in major corporations, Web design studios, internet service providers, government departments and various types of communications organizations.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Human Services -Addiction Studies Associate in Science

Total credits required for the degree: 73

The Human Services program with a specialization in Addiction Studies is designed to prepare students for employment as human services specialists, human services practioners, chemical dependency practioners, addiction specialists, mental health and social services practioners, or to provide supplemental training for persons previously or currently employed in these occupations. The program is also designed to provide most of the general academic and addiction specific reuirements of the Certification Board for Addiction Professionals of Florida.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Human Services -Generalist Associate in Science

Total credits required for the degree: 65

The Generalist Human Services program prepares students for employment in the network of programs and agencies which provide a vast array of human needs. These include areas such as child care, criminal justice, education, health, housing, income maintenance, mental health and retardation, among others. These needs are provided for a variety of settings, such as clinics, hospitals, nursing homes, rehabilitation centers and social agencies.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Hospitality and Tourism Management Associate in Science

Total credits required for the degree: 64

The Hospitality and Tourism Management program provides professional preparation for a career in the hospitality industry. Hospitality management is presented as a core curriculum with emphasis on hotel, cruise-line, resorts, conventions, and institutional management. An internship program is required to provide practical experience in the field of the student's choice. The Associate in Arts degree is also available to the student planning to transfer to a four-year institution after graduation from MDC. Consult an advisor about which additional courses are included in that program. This program transfers to four-year institutions. See department for information.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Industrial Management Technology Associate in Science

Total credits required for the degree: 60

The Industrial Management Technology program is primarily designed to provide additional competencies for administrative, managerial, supervisory and technical discipline

areas for personnel that have mastered technical proficiencies from prior training programs or work experiences. In addition, general education courses will be required to ensure good communication and computational skills. Most of the coursework required will enhance the prior technical skills mastered and prepare the graduate for supervisory and/or advanced technical positions.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Instructional Services Technology Associate in Science

Total credits required for the degree: 63

The Instructional Services Technology program provides training for students who desire to enter the field of education as paraprofessionals. Competencies covered in this program prepare paraprofessionals to support and extend instruction and services effectively, further increasing student learning. These competencies include the areas of instructional strategies in math, science, technology, behavior management, and human growth and development, as well as principles of language acquisition and literacy development. Students who complete the A.S. degree in Instructional Services Technology may also obtain an A.A. degree through appropriate course selection (please consult with your advisor).

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Interior Design Technology Associate in Science

Total credits required for the degree: 70

The Interior Design Technology program is planned to develop ability in the design of interiors, to encourage originality and to foster talent in this field. It includes theoretical and technical aspects of interior design. The program is open to those who study for pleasure and those preparing for a career.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Internet Services Technology Associate in Science

Total credits required for the degree: 63

The Internet Services Technology program provides an opportunity to establish a basic foundation in the field of Web site design and programming for employment in commercial, industrial and government institutions. Graduates are prepared for positions as Web technicians, Web administrators, Web site developers and Web masters.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Landscape Technology Associate in Science

Total credits required for the degree: 68

The Landscape Technology program has two options: Design and

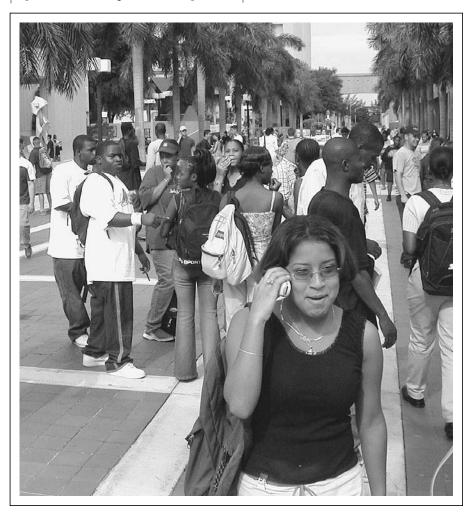
Installation and Maintenance Technician. The program, with its two options, trains students to manage, and is designed for those who are seeking immediate employment. There is only one A.S. program in Landscape Technology and students may select one of the two options available (maintenance technician or design and installation specialization). The Associate in Science degree will be awarded only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Marketing Management Associate in Science

Total credits required for the degree: 64

The Marketing Management program is designed mainly for students who intend to seek immediate employment in the fields of marketing, international business and trade, or real estate; also for those desiring to work in a non-profit



institution and those presently employed in marketing but seeking advancement. The Associate in Arts degree is also available to the student planning to transfer to a senior institution after graduating from Miami Dade College. Consult an advisor about additional courses for such plans. There is only one A.S. program in Marketing Management. Students may select one of the five options but the degree in Marketing Management will be awarded only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx.

Music Business Associate in Science

Total credits required for the degree: 63

The Music Business program is designed for students who intend to seek employment within the music business industry as an alternative to the strictly traditional Music degree program. The Associate in Science degree in Music Business combines a traditional music curriculum with industry-related courses and experiences. Music business majors will take courses in general academics, music business, music theory, sound engineering, music ensemble, marketing, small business entrepreneurship,

accounting and computer applications. Students will undertake an internship at a professional firm involved in some facet of the music industry. The internship experience is an important bridge between academic preparation and career development. The Music Business curriculum includes copyright, publishing, artist development, the recording industry, sales, retailing, live concert promotion and management, preparing well-rounded graduates knowledgeable in all aspects of the music industry. There is only one A.S. program in Music Business. Students may select one of the three options but the student will be awarded the Music Business degree only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx.

Networking Services Technology Associate in Science

Total credits required for the degree: 63

The Networking Services Technology program provides an opportunity to establish a basic foundation in the field of network design and administration for employment in commercial, industrial and government institutions.

Graduates are prepared for positions as information technology specialists, help desk specialists, network specialists, entry level security specialists and network systems analysts. There is only one A.S. program for Networking Services Technology. Students may select one of the three options (Microsoft, Cisco, or network security). The student will be awarded the Networking Services Technology degree only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx.

Office Administration Associate in Science

Total credits required for the degree: 63

The Office Administration program is designed to train information processors, secretaries and administrative professionals to meet the demands of the modern electronic office. Emphasis is placed on technology and related skills for office workers, such as document processing, computer literacy and applications, business communication and basic accounting principles. In addition, the program objectives are designed to help students develop the interpersonal and English communication skills needed by office professionals. There



is only one A.S. program for Office Administration. Students may select one of the three options. The student will be awarded the Office Administration degree only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx.

Paralegal Studies Associate in Science

Total credits required for the degree: 64

The Paralegal Studies program prepares students to obtain entry-level employment in law offices, government agencies, corporations or other business organizations. It also enables persons working in the field without a degree to upgrade their paralegal skills and receive a degree. The Paralegal Studies program is approved by the American Bar Association. A paralegal or legal assistant as defined by the American Bar Association is "a person qualified by education, training or work experience who is employed or retained by a lawyer, law office, corporation, governmental agency or other entity and who performs specifically delegated substantive legal work for which a lawyer is responsible." Paralegals cannot give legal advice, set fees, negotiate or represent clients in court as these activities involve the actual practice of law. While paralegals work under the supervision of attorneys, they are so much more than just "document preparers." They are valued members of the legal profession.

Additional Information: It is necessary to see an advisor prior to beginning the program and before registering each term. For more information please contact the Paralegal Studies program at 305-237-7813 or visit our Web site at www.mdc.edu/wolfson/academic/LegalAssistant/default.asp

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx.

Photographic Technology Associate in Science

Total credits required for the degree: 64

The Photographic Technology program is designed to meet individual student's needs for either further study or immediate employment in the field

of commercial and industrial photography. Students develop a wide variety of photographic and art-related skills and the ability to use these skills to produce commercially viable photographs. Instruction covers portrait photography, still photography, fashion photography, illustrative photography as well as the business skills needed to manage a photographic enterprise. Various internships such as in biomedical and forensic technology are available to students.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx.

Professional Pilot Technology Associate in Science

Total credits required for the degree: 64

The Professional Pilot Technology program is primarily developed to meet the challenging regional airline requirements for pilots; therefore, graduates of the program will earn the following Federal Aviation Administration (FAA) Certificates: Private, Commercial Pilot with Single and Multi-Engine Ratings. In addition, these certificates can be applied toward a Certified Flight Instructor (CFI) Certificate

Additional Information: Students interested in this program must first pass an FAA Class I medical evaluation prior to beginning classes.

Cost of flight training is in addition to normal tuition costs.

Contact the Aviation Department at (305) 237-5950 for information and advisement.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx.

Radio and Television Broadcasting Programming Associate in Science

Total credits required for the degree: 64

The Radio and Television Broadcasting Programming program is designed for students who intend to seek employment in radio, television and production companies, as well as allied fields such as in-house educational and industrial studios. The curriculum provides introductory and advanced courses essential to the professional program. It stresses

hands-on equipment use in both the radio and TV laboratories. Students will have access to high-end cameras, editing suites and video graphics animation facilities and will complete portfolioquality productions.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx.

Sign Language Interpretation Associate in Science

Total credits required for the degree: 72

The Sign Language Interpretation program is designed to develop the skills and knowledge necessary to interpret the communications between deaf or hard of hearing persons and hearing individuals in an accurate and effective manner. Also developed is a practical understanding of aspects of deaf studies and deaf culture and community. Graduates should be able to interpret at a basic level, and to achieve a minimum of Level 1 on the Quality Assurance Screening of the Florida Registry of Interpreters for the Deaf, which is traditionally required for employment as an interpreter in the state. In addition, the program will provide a foundation, especially with an accompanying Associate in Arts degree, for those persons who wish to pursue advanced degrees in preparation for careers in special education, vocational rehabilitation or other human service fields.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx.

Telecommunications Engineering Technology Associate in Science

Total credits required for the degree: 64

The Telecommunications Engineering Technology program prepares students for work as technicians in the field of telecommunications engineering. No previous experience is required to enter. The program focuses on the understanding and applying of new techniques in electronic technology for the purpose of testing, maintaining, repairing and upgrading digital as well as analog communication systems. The program is designed to be an integrated educational

72



curriculum taught using an integrated, applied and theoretical approach.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx.

Theatre and Entertainment Technology Associate in Science

Total credits required for the degree: 64

The Theatre and Entertainment Technology program is designed to prepare students for employment as theater and entertainment technicians, sound controllers, grips, dressers, prop makers, lighting equipment operators, high riggers, lighting technicians, stage hands or to provide supplemental education for persons previously or currently employed in these occupations. An internship is required to provide practical experience.

For further information please visit bttps://sisvsr.mdc.edu/ps/sheet.aspx.

Translation & Interpretation Studies Spanish/English Track or Haitian-Creole/English Track Associate in Science

Total credits required for the degree: 63

This program is designed to provide bilingual students with the knowledge and skills necessary to carry out the work associated with areas of translation (written) and interpretation (oral) in the workplace. Graduates are prepared for positions as court translators/ interpreters, in-house translators/interpreters for the private sector (including translation/ interpretation agencies), translators for government agencies, hospital interpreters/translators, freelance translators/ interpreters and telephone interpreters. Graduates will have the basic foundation to establish their own translation/ interpretation business.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx.

Travel Industry Management Associate in Science

Total credits required for the degree: 64

The Travel Industry Management program is designed to meet the educational and basic experience requirements for employment in the travel industry, e.g. travel agencies, airlines, cruise lines and private-business travel departments. This program combines general education courses, travel occupation courses and special travel laboratory courses in order to prepare the student for competent application of the skills required on the job.

For further information please visit bttps://sisvsr.mdc.edu/ps/sheet.aspx.

Associate of Applied Science (AAS)

The two year Associate of Applied Science degree is similar to the Associate in Science degree in that it prepares individuals for entry into a career upon graduation. The AAS was established to prepare individuals for careers requiring specialized study at the college level. The AAS degree does not usually articulate or transfer to the upper divisions. The AAS degree programs are comprised mostly of courses directly related to the identified career area. With the remaining courses comprised of general education classes such as English, oral communications, math/science, behavioral/ social science and humanities.

STUDENTS IN ALL PROGRAMS SHOULD CHECK THEIR INDIVIDUALIZED DEGREE AUDIT REPORT TO DETERMINE THE SPECIFIC GRADUATION POLICIES IN EFFECT FOR THEIR PROGRAM OF STUDY. REQUIREMENTS MAY CHANGE BASED ON THE YEAR AND TERM A STUDENT ENTERS MIAMI DADE COLLEGE. THE DEGREE AUDIT REPORT INCLUDES CURRENT GRADUATION REQUIREMENTS. THE FINAL RESPONSIBILITY FOR MEETING

GRADUATION REQUIREMENTS STATED IN THE DEGREE AUDIT REPORT RESTS WITH THE STUDENT.

Business Administration Associate of Applied Science

Total credits required for the degree: 64

The Business Administration Associate of Applied Science degree program is designed for students seeking employment or advancement in international business, management, marketing, non-profit management, real estate and small business management. Other degree programs are available for students planning to transfer to a senior institution after graduating from Miami Dade College. Consult an advisor about additional courses for such plans. There is only one Associate of Applied Science in Business Administration. Students may select one of the five options, but the Associate of Applied Science is awarded to the student only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Hospitality and Tourism Management Associate of Applied Science

Total credits required for the degree: 64

The Hospitality and Tourism Management program provides professional preparation for a career in the hospitality industry. Hospitality management is presented as a core curriculum with emphasis on hotel management specialization, a restaurant/food service management specialization and a cruise line management specialization. An internship program is required to provide practical experience in the field of the student's choice. To transfer to a four-year institution, please see the Hospitality and Tourism Management Associate in Science degree requirements or your program advisor. This A.A.S. does not transfer to a four-year institution.

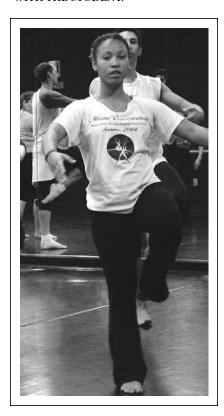
For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Other College Credit and Vocational Credit Programs

Advanced Technical Certificate Programs (ATC)

The Advanced Technical Certificate is available to students who have been awarded an Associate in Science degree and wish to upgrade their skills. Students must successfully complete a prescribed set of courses at the advanced level in order to be awarded the ATC.

STUDENTS IN ALL PROGRAMS SHOULD CHECK THEIR INDIVIDUALIZED DEGREE AUDIT REPORT TO DETERMINE THE SPECIFIC GRADUATION POLICIES IN EFFECT FOR THEIR PROGRAM OF STUDY. REQUIREMENTS MAY CHANGE BASED ON THE YEAR AND TERM A STUDENT ENTERS MIAMI DADE COLLEGE. THE DEGREE AUDIT REPORT INCLUDES CURRENT GRADUATION REQUIREMENTS. THE FINAL RESPONSIBILITY FOR MEETING GRADUATION REQUIREMENTS STATED IN THE DEGREE AUDIT REPORT RESTS WITH THE STUDENT.



Biotechnology Advanced Technical Certificate

Total credits required for the Certificate: 33

A fast-track certification program in Biotechnology is available for students with bachelor's degrees, or having at least an associate degree and a strong background in college-level math and science courses. This background, combined with selected courses in the biotechnology program, will provide students with the necessary skills to seek employment in Biotechnology and related industries.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Certified Flight Instructor Advanced Technical Certificate

(Homestead Campus Only)

Total credits required for the Certificate: 13

The Certified Flight Instructor (CFI) Advanced Technical Certificate program includes theory, flight and lab instruction. The program meets FAA requirements for a CFI. In addition to the FAA requirements, each student will learn to develop lesson plans and learn how to communicate effectively using a variety of instructional materials and feedback techniques. Students wishing to enroll in this program must possess a Commercial Pilot's License. Upon successful completion of this program, students will be able to demonstrate knowledge of private and commercial pilot certification: fundamentals of instruction in a single engine airplane; ability to recognize, analyze and provide correction of common student errors; and knowledge of the responsibilities of Certified Flight Instructors (CFI). Contact the Aviation Department at 305-237-5900 for information and advisement.

For further information please visit https://sisvsrmdc.edu/ps/sheet.aspx

College Credit Certificate Programs (CCC)

College Credit Certificate programs are subsets of selected Associate in Science degrees. The CCC meets the Florida Department of Education Certified College Credit program requirements and the student receives an institutional College Credit Certificate upon completion of the program, and the college credits granted in these programs will apply toward the related Associate in Science degree. The program's title is added to the student's transcript.

STUDENTS IN ALL PROGRAMS SHOULD CHECK THEIR INDIVIDUALIZED DEGREE AUDIT REPORT TO DETERMINE THE SPECIFIC GRADUATION POLICIES IN EFFECT FOR THEIR PROGRAM OF STUDY. REQUIREMENTS MAY CHANGE BASED ON THE YEAR AND TERM A STUDENT ENTERS MIAMI DADE COLLEGE. THE DEGREE AUDIT REPORT INCLUDES CURRENT GRADUATION REQUIREMENTS. THE FINAL RESPONSIBILITY FOR MEETING GRADUATION REQUIREMENTS STATED IN THE DEGREE AUDIT REPORT RESTS WITH THE STUDENT.

Accounting Applications College Credit Certificate

Total credits required for the College Credit Certificate: 27

The Accounting Applications College Credit Certificate program is designed to prepare students for employment as accounting clerks, data processing clerks, junior accountants and assistant accountants, or to provide supplemental training for persons previously or currently employed in these occupations. The program prepares individuals in the principles, procedures and theories of organizing and maintaining business and financial records, and the preparation of accompanying financial reports.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx 74



Addiction Studies College Credit Certificate

Total credits required for the College Credit Certificate: 39

The Addiction Studies Certificate prepares the student for employment as chemical dependency practioners, addiction specialists, mental health, or to provide supplemental training for persons previously or currently employed in these occupations.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Air Cargo Agent College Credit Certificate

Total credits required for the College Credit Certificate: 16

The Air Cargo Agent College Credit Certificate program is designed to give students the skills required to gain employment as an air cargo agent. The program can be completed in one or two semesters with classes offered during the day or evening hours. All of the credits earned can be applied towards an A.S. degree in Aviation Administration. Contact the Aviation Department at 305-237-5950 for information and advisement.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Airline/Aviation Management College Credit Certificate

Total credits required for the College Credit Certificate: 16

The Airline/Aviation Management College Credit Certificate program will provide the student with aviation management skills in an accelerated time frame. These include areas such as airline/aviation industry knowledge, management skills, marketing, law and operations. Students will learn how to take industry concepts and apply them both individually and as a team. They will be able to gain insight into the actual issues involved in running an airline at both the micro and macro levels, from a leadership perspective. They will also acquire up-to-date knowledge about airline/aviation technologies and law, and the latest management concepts and practical application of theories to real life aviation scenarios.

Additional Information: Contact the

Aviation Department at 305-237-5950 for information and advisement.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Airport Management College Credit Certificate

Total credits required for the College Credit Certificate: 16

The Airport Management College credit certificate program provides the student with the skills required to advance to management positions at airport (city & government) and/or airline terminal operations. Students will understand the cost centers, design processes and financial considerations required to be an effective manager in the aviation industry.

Additional Information: Contact the Aviation Department at 305-237-5950 for information and advisement.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Banking Management College Credit Certificate

Total credits required for the College Credit Certificate: 27

The Banking Management College Credit Certificate is designed to provide students who seek core knowledge and skills necessary for a successful pre-career in commercial lending. The intended audience includes entry-level commercial lenders, credit management trainees, employees from other banking areas who seek a career pathway to commercial lending and others who desire a broader understanding of banking and how to service the needs of a bank's corporate clients more effectively. Generally, positions could include first line banking supervisors, managers, administrators or financial management.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Banking Operations College Credit Certificate

Total credits required for the College Credit Certificate: 18

The Banking Operations College Credit Certificate program is designed to provide students with the knowledge to analyze companies and their ability to repay loans. The intended audience includes lending support personnel, junior credit analysts and others who seek a pathway to lending. Generally, positions could also include first line banking supervisors. Positions that could be available based upon this training include Credit Analysis and Financial Analyst. This program also meets the requirements for the Center for Financial Training national industry diploma.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Banking Specialist College Credit Certificate

Total credits required for the College Credit Certificate: 12

The Banking Specialist College Credit Certificate program provides students with both general knowledge and specific competencies that establish a foundation for a successful financial services career. Because the required courses provide an ideal foundation upon which to build banking-specific knowledge and skills, the certificate is well-suited for individuals planning to make banking their long-term career. In that regard, candidates for the certificate include career entry employees with clerical, administrative or customer service responsibilities who are establishing career pathways through professional development and related job experience, professionals who recently entered banking from other industries and management trainees who desire a broader understanding of the financial services industry. Generally, positions would include banking managerial support workers. Positions that could be available based upon this training include Customer Service Representative and Financial/ Banking Specialist. This program also meets the requirements for the Center for Financial Training national industry diploma.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Biotechnology College Credit Certificate

Total credits required for the College Credit Certificate: 19

The College Credit Certificate in Biotechnology seeks to prepare students for immediate entry-level employment

in the biotechnology-, pharmaceutical-, or medical device manufacturing- industry. The program prepares individuals in the principles, procedures, and practices used in the bioscience industries. The college credits granted in this program will apply toward an Associate in Science degree in Biotechnology.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Business Management College Credit Certificate

Total credits required for the College Credit Certificate: 24

The Business Management College Credit Certificate program is the third in a series of three College Credit Certificate programs designed to prepare students for the positions of manager trainee, supervisor or small business owner. It also provides supplemental training for persons previously or currently engaged in these activities. The program prepares individuals to become proficient in the planning, organizing, directing and controlling of a business, including organizational and human aspects, with emphasis on various theories of management, managing economic resources and decision making. Emphasis is given to the ownership of small business enterprises. There is only one College Credit Certificate in Business Management. Students may select one of the two options (Management or Small Business Management), but the certificate in Business Management is awarded only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Business Operations College Credit Certificate

Total credits required for the College Credit Certificate: 18

The Business Operations College Credit Certificate program is the second in a series of three College Credit Certificate programs designed to prepare students for employment and advancement in the following areas: accounting/budgeting, business/ management, customer service, finance, human resources, international business, marketing, nonprofit, real estate, retail and small business. There is only one

College Credit Certificate in Business Operations. Students may select one of the 11 options, but the certificate is awarded only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Business Specialist College Credit Certificate

Total credits required for the College Credit Certificate: 12

The Business Specialist College Credit Certificate program is the first in a series of three College Credit Certificate programs designed to prepare students for employment in entry-level positions in the following areas: accounting/budgeting, business/management, customer service, finance, human resources, international business, marketing, nonprofit, real estate, retail and small business. There is only one College Credit Certificate in Business Specialist. Students may select one of the 11 options, but the certificate is awarded only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Cisco Network Associate College Credit Certificate

Total credits required for the College Credit Certificate: 12

The Cisco Network Associate College Credit Certificate program is designed to provide an opportunity to establish a basic foundation in the field of Cisco network design and implementation, leading to certification as a Cisco Certified Network Associate (CCNA).

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Computer-Aided Design Assistant College Credit Certificate

Total credits required for the College Credit Certificate: 14

The Computer-Aided Design Assistant College Credit Certificate program is designed to prepare students to work as CAD assistants in an architectural office by acquiring a basic understanding of the architectural graphic skills needed to produce working and presentation drawings.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Computer-Aided Design Operator College Credit Certificate

Total credits required for the College Credit Certificate: 22

The Computer-Aided Design Operator College Credit Certificate program is designed to prepare students in an architectural office by obtaining intermediate skills in architectural graphics



needed to produce working and presentation drawings. After successfully completing the following courses, students can obtain employment assisting architects and drafters with computer-aided drawings and design presentations.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Computer Programming College Credit Certificate

Total credits required for the College Credit Certificate: 36

The Computer Programming College Credit Certificate program is designed to provide an opportunity to establish a basic foundation in computer programming for employment in scientific, commercial, industrial and government information technology applications. Graduates are prepared for positions as entry-level programmers, programmer specialists, computer programmers and senior programmers.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Computer Specialist College Credit Certificate

Total credits required for the College Credit Certificate: 27

The Computer Specialist College Credit Certificate program is designed to prepare students to work as Computer Repair Assistants in a computer repair shop or the computer maintenance division of a corporation, by acquiring a basic understanding of computer internal architecture and operations.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Food and Beverage Management College Credit Certificate

Total credits required for the College Credit Certificate: 30

The Food Service Management College Credit Certificate program is designed to prepare students with a theoretical and practical foundation for a successful career in the food and beverage industry. Students enrolled in this program are prepared for positions such as Catering/Banquet Manager, Food & Beverage Manager, Restaurant Manager and Bar/Lounge Manager. Credits earned can be applied to an Associate in Science degree in Hospitality Management, which is fully transferable to public universities within the state of Florida.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Infant/Toddler Specialization College Credit Certificate

Total credits required for the College Credit Certificate: 12

This program is designed to prepare students as early childhood education caregivers with an infant/toddler specialization or provide supplementary training for persons previously or currently employed in these occupations. Students will learn essential components of quality care and education including, but not limited to early childhood education, guidance techniques, establishing and maintaining a safe and healthy learning environment, rules and regulations, family interactions, nutrition, child growth and development and professional responsibilities. Employment opportunities include in-home or center-based programs for infants/toddlers.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Information Technology Support College Credit Certificate

Total credits required for the College Credit Certificate: 28

The Information Technology Support College Credit Certificate program is designed to provide an opportunity to establish a basic foundation in computer applications for employment in scientific, commercial, industrial and government institutions. Graduates are prepared for positions as data-entry specialists, software applications specialists and office systems specialists to meet the demands of today's automated offices.

Additional Information: Certificate Pre-Requisite: CGS1060 or a working knowledge of the Microsoft Operating System and Microsoft Office Application Suite. Operational understanding of the following microcomputer topics: Operating systems, memory, hard disks, types of central processing units (CPUs), communications ports, printer ports, display adapters and pointing devices.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Interpretation Studies: Spanish/English or Haitian-Creole/English Tracks College Credit Certificate

Total credits required for the College Credit Certificate: 30

The Interpretation Studies College Credit Certificate program is designed to provide bilingual students with the knowledge and skills necessary to carry out the work associated with areas of interpretation (oral) in the workplace. Those who complete the program are



prepared for positions as court interpreters, in-house interpreters for the private sector (including interpretation agencies), hospital interpreters, freelance interpreters and telephone interpreters.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Marketing Operations College Credit Certificate

Total credits required for the College Credit Certificate: 24

The Marketing Operations College Credit Certificate program is designed to prepare students for employment as advertising and display specialists, marketing, advertising, public relations managers, public relations specialists or to provide supplemental training for persons previously or currently employed in these occupations.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Microcomputer Repairer/Installer College Credit Certificate

Total credits required for the College Credit Certificate: 15

The Microcomputer Repairer/ Installer College Credit Certificate program is designed to prepare students to work as Computer Repair Assistants in a computer repair shop or the computer maintenance division of a corporation, by acquiring a basic understanding of computer internal architecture and operations.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Microsoft Database Administrator College Credit Certificate

Total credits required for the College Credit Certificate: 16

The Microsoft Database Administrator College Credit Certificate program is designed to provide an opportunity to establish a basic foundation in the field of database administration for employment in commercial, industrial and government institutions. Graduates are prepared for positions as database administrators and database developers.

Additional Information: Certificate Pre-Requisite: CGS 1060 and CGS 1560 or a working knowledge of the Microsoft operating system and Microsoft Office applications suite. Operational understanding of the following microcomputer topics: operating systems, memory, hard disks, types of central processing units (CPUs), communications ports, printer ports, display adapters and pointing devices.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Microsoft Solutions Developer College Credit Certificate

Total credits required for the College Credit Certificate: 16

The Microsoft Solutions Developer College Credit Certificate program is designed to provide an opportunity to establish an advanced level of expertise in the field of commercial computer applications development for employment in commercial, industrial, and government institutions. Graduates are prepared for positions as application developers and solution providers.

Additional Information: Certificate Pre-Requisite: CGS 1060, CGS 1541, CGS 1560. COP 1170, 2171 and COP 2700 or a working knowledge of the Microsoft operating systems and Microsoft Office applications suite. Operational understanding of the following microcomputer topics: operating systems, memory, hard disks, types of central processing (CPUs), communications ports, printer ports, display adapters and pointing devices. Operational understanding of the following programming concepts: Advanced Microsoft Visual Basic application development, and analysis, design and programming of database systems.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Mortgage Finance College Credit Certificate

Total credits required for the College Credit Certificate: 31

The Mortgage Finance College Credit Certificate program applies towards an Associate in Science in Financial Services degree. It is designed to develop entrylevel professionals to work in Mortgage Finance, with an emphasis in Affordable Housing. A major goal of this program is to increase the role and level of minorities in the Mortgage Finance industry.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Network Systems Developer College Credit Certificate

Total credits required for the College Credit Certificate: 41

The Network Systems Developer College Credit Certificate is designed to prepare students to work as Computer Repair Technicians in a computer repair shop or the computer maintenance division of a corporation, by acquiring an indepth understanding of computer internal architecture, operations and digital systems design operations.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Office Management College Credit Certificate

Total credits required for the College Credit Certificate: 27

The Office Management College Credit Certificate program is the third in a series of three College Credit Certificate programs designed to prepare students for employment as administrative professionals in legal office, general office or office software applications. The legal office option is designed to prepare students for employment as a legal office manager, legal supervisor, senior legal secretary, legal transcriptionist, litigation secretary, or to provide supplemental training for those previously or currently employed in these fields. The general office option is designed to prepare students for assistant, assistant/ supervisor, executive administrative assistant, jr., executive assistant, junior administrative assistant, secretary-administrative assistant, office coordinator, office manager and office supervisor. The office software applications option is designed to prepare students for employment as administrative coordinator, customer service supervisor, software applications specialist, digital publisher, document manager, executive administrative assistant, jr., operations analyst, payroll specialist, personal assistant, project administrator/ coordinator, proofreader, or to provide supplemental training for persons previously or currently employed in these occupations. The program content for each of the three options



emphasizes the skills and competencies needed to perform at management level in these specialization areas. There is only one College Credit Certificate in Office Management. Students may select one of the three options, but the certificate is awarded only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Office Specialist College Credit Certificate

Total credits required for the College Credit Certificate: 18

The Office Specialist College Credit Certificate program is the second in a series of three College Credit Certificate programs designed to prepare students for employment as administrative professionals in legal office, general office or office software applications. The content of the program develops competency in word processing and document formatting skills, machine transcription, grammatical and vocabulary skills as well as emphasizes a general knowledge of office procedures, human relations, and administrative skills. Employment preparation is for mid-level positions such as junior legal or executive secretary, legal or secretarial office assistant, legal or general office support specialist, legal proofreader, administrative support specialist, data control/specialist clerk, office systems specialist or assistant office supervisor. Supplemental training is also provided in this program for those previously or currently employed in these fields. There is only one College Credit Certificate in Office Management. Students may select one of the three options, but the certificate is awarded only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Office Support College Credit Certificate

Total credits required for the College Credit Certificate: 12

The Office Support College Credit Certificate program is the first in a series of three College Credit Certificate programs designed to prepare students for employment as administrative professionals in legal office, general office or office software applications. The content of the program provides students with training in general or legal office procedures, telephone skills, records management as well as the development of human relations and English skills. Basic skills in time management, Internet and e-mailing are developed as well as word processing and document formatting skills. Employment preparation is for entry-level positions such as legal office or general office assistant, legal or general office support clerk, and legal or general office receptionist, information clerk, insurance processing clerk, customer service assistant, as well as software applications support service, data entry/specialist clerk, information clerk or staff assistant. Supplemental training is also provided in this program for those previously or currently employed in these fields. There is only one College Credit Certificate in Office Management. Students may select one of the three options, but the certificate is awarded only once.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Oracle Database Administrator College Credit Certificate

Total credits required for the College Credit Certificate: 16

The Oracle Database Administrator College Credit Certificate program is designed to provide an opportunity to establish a basic foundation in the field of database administration for employment in commercial, industrial and government institutions. Graduates are prepared for the position of Oracle Database Administrator.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Oracle Database Developer College Credit Certificate

Total credits required for the College Credit Certificate: 16

The Oracle Database Developer College Credit Certificate program is designed to provide an opportunity to establish a basic foundation in the field of database development for employment in commercial, industrial and government institutions. Graduates are prepared for positions as Oracle database developers.

Additional Information: Certificate prerequisite: CGS 1060, CGS 1541, CGS

1560, COP 1170, COP 2171, COP 2700 and COP 2740 or a working knowledge of the Microsoft Operating Systems and Microsoft Office Applications Suite. Operational understanding of the following microcomputer topics: operating systems, memory, hard disks, types of central processing (CPUs), communication ports, printer ports, display adapters and pointing devices. Operational understanding of the following programming concepts: advanced Microsoft visual basic application development, and analysis, design and programming of database systems.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Passenger Service Agent College Credit Certificate

Total credits required for the College Credit Certificate: 16

The Passenger Service Agent College Credit Certificate program is designed to give students the skills required to gain employment as a passenger service agent, including gate and ramp responsibilities. Students will be required to do an internship with a commuter or major airline.

Additional Information: Contact the Aviation Department at 305-237-5950 for more information and advisement.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Rooms Division Management College Credit Certificate

Total credits required for the College Credit Certificate: 30

The Rooms Division Management College Credit Certificate program is designed to prepare students with a theoretical and practical foundation for a successful career in the hotel sales and marketing industry. Students enrolled in this certificate are prepared for positions such as Front Desk Manager, and Guest Relations Manager. Credits earned can be applied to an Associate in Science degree in Hospitality Management, which is fully transferable to public universities within the state of Florida.

For further information please visit bttps://sisvsr.mdc.edu/ps/sheet.aspx

Translation Studies: Spanish/English or Haitian-Creole/English Tracks College Credit Certificate

Total credits required for the College Credit Certificate: 30

The Translation Studies College Credit Certificate program is designed to provide bilingual students with the knowledge and skills necessary to carry out the work associated with areas of translation (written) in the workplace. Those who complete the program are prepared for positions as in-house translators for the private sector (including translation agencies), translators for government agencies, hospital translators and freelance translators.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Web Development Specialist College Credit Certificate

Total credits required for the College Credit Certificate: 36

The Web Development Specialist College Credit Certificate program is to provide an opportunity to establish a basic foundation in the field of Web site design and programming for employment in commercial, industrial, and government institutions. Graduates are prepared for positions as Web technicians, Web administrators, and Web site developers.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Career Technical Education Programs (CTE)

Career Technical Education (CTE) Programs prepare students to enter a specific career or vocation. To complete a program, students must demonstrate that they have mastered specific jobrelated performance requirements as well as communication and computation competencies and will be awarded a CTE upon the completion of a program. CTE programs vary in length from 63 to 1,905 contact hours depending on the complexity of the individual program. Students entering programs great-

er than 450 hours (effective January, 2003) will be tested for basic communication, computation and reading skills. Students who score below the required Department of Education grade level designated for each program will be required to take appropriate basic skills training prior to the completion of their respective programs (§233.0695, ES).

Career Certificate students are eligible for financial aid provided they are enrolled in programs greater than 600 credit hours.

Allied health programs are offered at the Medical Center Campus only. See page 85.

Academy of International Marketing Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9; Language: 9; Reading: 9 Program Length: 600 contact hours (20 vocational credits)

The total contact bours required for Career Certificate: 600

Participants in the Academy of International Marketing program will receive basic knowledge of documentation procedures and classification, ocean and airfreight procedures and international marketing strategies. The program prepares students for entry level positions in the field of international trade, with import/export companies, steamship lines, custom lines or freight forwarders. It also serves to upgrade skills of individuals involved in the international trade field. The program leads the student through three completion points. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Accounting Operations Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9; Language: 9; Reading: 9

Program Length: 900 contact hours (30 vocational credits)

The total contact hours required for Career Certificate: 900

The purpose of the Accounting Operations program is to prepare students for employment as indicated in the occupational exit points. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Administrative Assistant Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 10; Language: 10;

Reading: 10

Program Length: 1,050 contact hours (35 vocational credits)

The total contact bours required for Career Certificate: 1,050

The Administrative Assistant program is designed to prepare the student to enter the world of commerce and government organizations. The student is led through four completion points covering general office clerk, clerical support, administrative support and administrative assistant. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Bail Bond Agent Career Certificate

Program Length: 120 contact hours (4 vocational credits)

The total contact bours required for Career Certificate: 120

The Bail Bonding program includes introduction to the criminal justice system, duties of surety and bail bonding agents, bail bonding process, bail bond laws and regulations. Additional Information: This course is offered by the Legal Assisting Program. Contact the Program Office in Room 3506 or call 305-237-7813 for specific information.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Business Computer Programming Career Certificate

Minimum Grade Level Required for Certificate and Graduation: Mathematics: 9; Language: 9; Reading: 9



Program Length: 1,200 contact hours (40 vocational credits)

The total contact bours required for Career Certificate: 1,200

The Business Computer Programming program offers a broad foundation of knowledge and skills expanding the traditional role of the Junior Programmer. The content includes converting problems into detailed plans; writing code in computer languages, testing, monitoring, debugging, documenting, and maintaining computer programs; and designing programs for specific uses and machines. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Business Supervision and Management Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9; Language: 9;

Reading: 9

Program Length: 900 contact hours (30 vocational credits)

The total contact hours required for Career Certificate: 900

The purpose of the Business Supervision and Management program is to prepare students for employment as indicated in the occupational exit points. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Correctional Officer -County Career Certificate

Program Length: 532 contact hours (17.73 vocational credits) Required for Certificate and Graduation

The total contact hours required for Career Certificate: 532

The Correctional Officer - County program prepares students for certification as Correctional Officers in Miami-Dade County in accordance with Rule 11B-35, F.A.C., and Chapter 943, E.S. All Criminal Justice Standards and Training Commission, Department of Education, and Region XIV training standards will be met. Graduates are eligible for employment with any correctional agency in the state upon successful completion of the program and passing the State Officer Certification Exam for Corrections. Topics include human behavior, law, communications, facility operations, first aid and other related topics. There is an emphasis on practical applications and competency-based performance. This program is offered at the School of Justice. Students seeking entrance into the MDC School of Justice basic recruit training programs for a career in corrections are required to pass a physical screening, physical agility, fingerprinting and background check, and a Florida Department of Law Enforcement approved basic abilities test, such as the Florida Basic Abilities Test (FBAT). For more information on the FBAT test, please contact the School of Justice FBAT Department at 305-237-1722 and/ or visit the FBAT Web site, at http:// www.mdc.edu/north/f-bat/.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Correctional Officer - State Career Certificate

Program Length: 532 contact hours (17.73 vocational credits) Required for Certificate and Graduation

The total contact hours required for Career Certificate: 532

The Correctional Officer - State program prepares students for certification as Correctional Officers in the state of Florida. All criminal justice standards and training, Department of Education, and local standards will be met. Graduates are eligible for employment with any correctional agency in the state upon graduation from the program and successful completion of the State Certification Exam. Topics include human behavior, law, communications, facility operations, first aid and other related topics. There is emphasis on practical applications and competency-based performance. This program is offered at the School of Justice. Students seeking entrance into the MDC School of Justice basic recruit training programs for a career in corrections are required to pass a physical screening, physical agility, Voice Stress Analysis Test, psychological test, fingerprinting and background check and the Florida Basic Abilities Test (FBAT). For

more information please contact the School of Justice, FBAT Department and/ or visit the FBAT Web site, at www.mdc. edu.north.fbat.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Crossover from Correctional Officer to Law Enforcement Officer Career Certificate

Program Length: 434 contact hours (14.47 vocational credits) Required for Certificate and Graduation

The total contact hours required for Career Certificate: 434

This program provides training to Florida Certified Correctional Officers in good standing who seek certification as full-time or part-time law enforcement officers.All criminal justice standards and training. Department of Education and local standards will be met. The courses listed below prepare the Corrections Officer for the Law Enforcement State Certification Exam.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Customer Assistance **Technology** Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9; Language: 9; Reading: 9

Program Length: 450 contact hours (15 vocational credits)

The total contact hours required for Career Certificate: 450

The purpose of the Customer Assistance Technology program is to prepare students for employment as indicated in the occupational exit points. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Early Childhood Education Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9; Language: 9;

Reading: 9

Program Length: 600 contact hours (20 vocational credits)

The total contact bours required for Career Certificate: 600

The Early Childhood Education program will prepare adults for employment as a child care worker, child care teacher aide, pre-school teacher, and child care development specialist. It combines classroom instruction and field work experience with an emphasis on developmentally-appropriate programming for young children. The requirements for the Florida Department of Children and Families 20/10 Hour Child Care Training certificate and the Child Development Associate (CDA) equivalency are included in the program. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Electricity Apprenticeship Program Career Certificate

Mathematics: 9; Language: 9; Reading: 9

Program Length: 10,000 contact hours (333.33 vocational credits)

The total contact hours required for Career Certificate: 10,000

The Electricity Apprenticeship Program is offered by Miami Dade College in partnership with an industry apprenticeship organization. Students receive a combination of classroom instruction and on-the-job training where they learn the practical and theoretical aspects of the highly skilled occupation of Commercial Electrician. This is a four-year program, for a total of 10,000 hours, which upon successful completion, awards the student a Journey Level credential from the trade, as well as a Career Certificate from the College. In order to participate in the apprenticeship program, the student must be employed full-time with a participating sponsor. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Electronic Technology Career Certificate

Minimum Grade Level Required for Certificate and Graduation: Mathematics: 10; Language: 9; Reading: 9

Program Length: 1,400 contact hours (46.67 vocational credits)

The total contact hours required for Career Certificate: 1,400

The Electronic Technology program prepares individuals to assemble, install, operate, maintain, trouble shoot and repair electronic equipment used in industry and related to the design theory and analysis of electronic systems and application. To complete this program, students should be able to use the various types of equipment found in general use throughout the electronic industry. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Fire Fighting II Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 10; Language: 10;

Reading: 10

Program Length: 450 contact hours

(15 vocational credits)

The total contact hours required for Career Certificate: 450

The purpose of the Fire Fighting program is to prepare students for employment and certification as a firefighter in

accordance with Chapter 633, F.S. The program is approved by the division of state fire marshall, bureau of fire standards and training. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

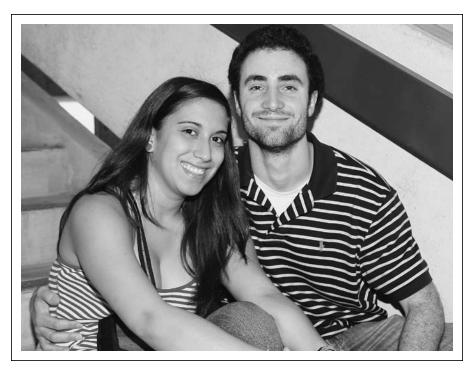
Fire Sprinkler Apprenticeship Program Career Certificate

Mathematics: 9; Language: 9; Reading: 9

Program Length: 10,000 contact hours (333.33 vocational credits)

The total contact bours required for Career Certificate: 10,000

The Fire Sprinkler Apprenticeship Program is offered by Miami Dade College in partnership with an industry apprenticeship organization. Students receive a combination of classroom instruction and on-the-job training where they learn the practical and theoretical aspects of the highly skilled occupation of Fire Sprinkler System Installer. This is a four-year program, for a total of 10,000 hours, which upon successful completion, awards the student a Journey Level credential from the trade, as well as a Career Certificate from the College. In order to participate in the apprenticeship program, the student must be





employed full-time with a participating sponsor. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Heating, Ventilation, & Air Conditioning (HVAC) Apprenticeship Program Career Certificate

Mathematics: 10; Language: 9;

Reading: 9

Program Length: 10,000 contact hours (333.33 vocational credits)

The total contact bours required for Career Certificate: 10,000

The Heating, Ventilation, & Air Conditioning (HVAC) Apprenticeship Program is offered by Miami Dade College in partnership with an industry apprenticeship organization. Students receive a combination of classroom instruction and on-the-job training where they learn the practical and theoretical aspects of the highly skilled occupation of Air Conditioning, Refrigeration, and Heating Technician. This is a four-year program, for a total of 10,000 hours, which upon successful completion, awards the student a Journey Level credential from the trade, as well as a Career Certificate from the College. In order to participate in the apprenticeship program, the student must be employed full-time with a participating sponsor. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Insurance Marketing Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9; Language: 9;

Reading: 9

Program Length: 450 contact hours (15 vocational credits)

The total contact hours required for Career Certificate: 450

The purpose of the Insurance Marketing program is to prepare students for employment in the customer service area of the insurance industry. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Law Enforcement Officer Career Certificate

Program Length: 760 contact hours (25.3 vocational credits) Required for Certificate and Graduation

The total contact hours required for Career Certificate: 760

The Law Enforcement Officer program prepares students for certification as Police Officers in the state of Florida. All criminal justice standards and training, Department of Education, and local stan-

dards will be met. Graduates are eligible for employment with any law enforcement agency in the state upon graduation from the program and successful completion of the State Certification Exam. Topics include law, human issues, patrol, traffic, investigations and communications. There is an emphasis on practical applications and competency-based performance. This program is offered at the School of Justice. Students seeking entrance into the MDC School of Justice basic recruit training programs for a career in law enforcement are required to pass a physical screening, physical agility, Voice Stress Analysis Test, psychological test, fingerprinting and background check and the Florida Basic Abilities Test (FBAT). For more information, please contact the School of Justice, FBAT Department and/or visit the FBAT Web site, at www.mdc.edu.north.fbat.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Legal Administrative Specialist Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 10; Language: 10;

Reading: 10

Program Length: 1,050 contact hours (35 vocational credits)

The total contact bours required for Career Certificate: 1,050

The purpose of the Legal Secretary program is to prepare students for employment as indicated in the occupational completion points. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Network Support Services Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9; Language: 9;

Reading: 9

Program Length: 1,050 contact hours (35 vocational credits)

The total contact bours required for Career Certificate: 1,050

The Network Support Services program offers a broad foundation of knowledge and skills to prepare students for



employment in network support services positions. The content includes instruction in computer literacy, software application support, basic hardware configuration and troubleshooting, networking technologies, security, and administration and customer service. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

PC Support Services Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9 Language: 9;

Reading: 9

Program Length: 900 contact hours (30 vocational credits)

The total contact bours required for Career Certificate: 900

The PC Support Services program offers a broad foundation of knowledge and skills to prepare students for employment in PC support services positions. The content includes software applications and operating systems including the use of advanced software/ system features and programs; computer networking and network administration. The 900 contact hours include both microcomputer and general business courses. Hands-on experience is an integral part of the program. Activities include the use of microcomputers, and peripheral equipment with widely-used business applications software, database and other applications. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Plumbing Apprenticeship Program Career Certificate

Mathematics: 9; Language: 9; Reading: 9

Program Length: 10,000 contact hours (333.33 vocational credits)

The total contact bours required for Career Certificate: 10,000

The Plumbing Apprenticeship Program is offered by Miami Dade College in partnership with an industry apprenticeship organization. Students receive a combination of classroom instruction and on-the-job training developed to meet the standards established by the Bureau of Apprenticeship and Training (B.A.T.). The Plumber Apprentice Training program features courses in mechanics, chemistry, and electricity, as well as heating, ventilation, pipefitting, and welding. Students learn the practical and theoretical aspects of the highly skilled occupation of Plumber. Pre-technical skills training in math, measurements, and safety give students the preliminary knowledge base to get started. Students will also become familiar with the latest National Standard Plumbing codes. This is a four-year program, for a total of 10,000 hours, which upon successful completion, awards the student a Journey Level credential from the trade, as well as a Career Certificate from the College. In order to participate in the apprenticeship program, the student must be employed full-time with a participating sponsor. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Police Service Aide Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 10; Language: 10;

Reading: 10

Program Length: 206 contact hours (6.87 vocational credits)

The total contact hours required for Career Certificate: 206

The Community Service Officer/ Police Service Aide program prepares students for employment as parking enforcement specialists, traffic accident investigators and community service officers/police service aids in accordance with Chapters 316 and 943 of the Florida Statutes (F.S.). Emphasis is placed on parking enforcement, traffic accident and property crimes investigations, basic law, human skills and communication. Students are required to demonstrate skills acquired through practical exercises in traffic enforcement, traffic crash scene management and preparing reports on property crimes. Students are employed by departments and then sent to the academy for training. Awards of participation are available

for completion of the parking enforcement specialist and traffic accident investigator portions of the program. Upon completion of the entire program, a Career Certificate will be awarded in Community Service Officer/Police Service Aide. The program is limited to School of Justice students only.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Private Security Officer Career Certificate

Program Length: 68 contact hours (2.3 vocational credits) Required for Certificate and Graduation

The total contact hours required for Career Certificate: 68

The Private Security Officer program consists of two courses required by the state of Florida prior to licensing as a Security Officer. The Basic Phase A course allows the officer to obtain a temporary license. Officers must complete the Basic Phase B course within two years to maintain their license.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Real Estate Broker Career Certificate

Program Length: 72 contact hours (2.40 vocational credits) Required for Certificate and Graduation

The total contact hours required for Career Certificate: 72

The purpose of the Real Estate Marketing program is to prepare students for employment as Real Estate Brokers.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Real Estate Sales Agent Career Certificate

Program Length: 63 contact hours (2.10 vocational credits) Required for Certificate and Graduation

The total contact bours required for Career Certificate: 63

The purpose of the Real Estate Sales Agent program is to prepare students for employment as Real Estate Sales Agents.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx



Sheet Metal Apprenticeship Program Career Certificate

Mathematics: 9; Language: 9; Reading: 9

Program Length: 10,000 contact hours (333.33 vocational credits)

The total contact bours required for Career Certificate: 10,000

The Sheet Metal Apprenticeship Program is offered by Miami Dade College in partnership with an industry apprenticeship organization. Students receive a combination of classroom instruction and on-the-job training where they learn the practical and theoretical aspects of the highly skilled occupation of Sheet Metal Welder. This is a four-year program, for a total of 10,000 hours, which upon successful completion, awards the student a Journey Level credential from the trade, as well as a Career Certificate from the College. In order to participate in the apprenticeship program, the student must be employed full-time with a participating sponsor. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Television Production Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9; Language: 9;

Reading: 9

Program Length: 1,650 contact hours (55.0 vocational credits)

The total contact hours required for Career Certificate: 1,650

The Television Production program is a practical, hands-on introduction to the policies and procedures, equipment and tasks that must be understood by the entry-level television broadcast technician. In addition to the laboratory simulations that each course contains, extensive internship experience is provided to prepare the participant for successful job entry. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsrmdc.edu/ps/sheet.aspx

Teller Operations Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9; Language: 9; Reading: 9

Program Length: 150 contact hours (5 vocational credits)

The total contact hours required for Career Certificate: 150

The Teller Operations Career Certificate program provides the handson training and background information needed for obtaining a position as a teller in today's banking industry. It reflects the changing responsibilities of tellers due to industry and legal compliance issues that are occurring in the financial services area.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Travel and Tourism Industry Operations Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9; Language: 9;

Reading: 9

Program Length: 600 contact hours (20 vocational credits)

The total contact bours required for Career Certificate: 600

The purpose of this program is to prepare students for employment in the travel industry and to provide continuing workforce education for those persons previously or currently employed in this industry. The program consists of three areas of specialization that include a core and one area of specialization that does not include the core. Upon completion of the program, the student will be credentialed as a Tour Escort.

The content should include, but is not limited to, selling, transporting, advertising, displaying and planning travel services. Test of Adult Basic Education (TABE) is required.

For further information please visit https://sisvsr.mdc.edu/ps/sheet.aspx



Allied Health/Nursing Programs

Medical Center Campus

The College offers a variety of educational opportunities for those who wish to prepare for health care careers. Each nursing and allied health program is designed to offer a combination of technical and general education courses. The technical courses are both didactic and clinical, requiring students to apply their knowledge in a health care setting. The programs are usually two years in length and lead to an Associate in Science or Associate of Applied Science degree. The College also offers shorter College Credit Certificate and Career Technical Education programs in the health care fields

Any students interested in any of the Allied Health programs are encouraged to consult advisors in the New Student Center to receive the most current information regarding program admission.

Program Admission

Students should not interpret acceptance into the College as automatic eligibility to enter the nursing or allied health programs. Those desiring enroll-

ment in a program must first consult with an advisor in the New Student Center at Medical Center Campus. The College encourages all interested students to attend program information sessions. There are basic admission requirements. Students must:

- 1. Be high school graduates or have a GED credential
- 2. Complete an Application for Admission to Miami Dade College
- Submit the completed program application by the due date to the Medical Center Campus
- Complete the computer placement test (CPT), if required, and any required college preparatory courses
- 5. Successfully complete HSC 0003
- Have a minimum grade point average (GPA) of 2.0 for all college work attempted unless waived by the program chairperson/director (The minimum GPA may be higher for some programs).
- 7. Have achieved a grade of C or higher in any general education or natural science courses required for program selection

Individual programs may require additional testing.

An applicant who has been convicted of a felony or is the subject of an arrest pertaining to a controlled substance should confer with an authorized representative of the regulatory/licensing agency to determine eligibility for future credentialing and practice. Graduates are subject to the laws, policies and procedures of their respective regulatory/licensing boards. The College cannot assure licensure/certification.

Students are subject to the policies and procedures of affiliating agencies.

Admission requirements are subject to revision. Students should obtain the most current program information from the New Student Center on the Medical Center Campus. A program may have additional published selection criteria.

Student Selection/Progression

Most allied health and nursing programs at the Medical Center Campus are limited in the number of students they can enroll. These enrollment limits are based on:

- 1. Accreditation criteria/essentials and/or state licensure regulations
 - 2. Clinical site availability
- 3. On-campus clinic and/or laboratory facilities
 - 4. Employment opportunities

Programs will make student selection decisions on the basis of published criteria. Applicants with comparable noncollegiate preparation in nursing or an allied health field may be awarded credits through examination and validation.

In keeping with its mission and goals, and in compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act, the Medical Center Campus promotes an environment of respect and support for persons with disabilities and will make reasonable accommodations in accordance with these laws. The definition of individuals with disabilities are those who currently have, possess a record of having, or are regarded as having, a physical or mental impairment that substantially limits one or more major life activities.



86

WWW.MDC.EDU

Major life activities include caring for one's self, performing manual tasks, walking, seeing, hearing, breathing and working.

Individuals applying for admission, progression to clinical courses and graduation from a program in nursing or allied health must be able to meet the physical and emotional requirements of the academic program. In addition, students admitted to programs in nursing and allied health technologies must possess:

- The emotional maturity and stability to approach highly stressful human situations in a calm and rational manner
- The ability to make clinical judgments using critical thinking
- The ability to adhere to ethical standards of conduct as well as applicable state and federal laws
- The ability to effectively communicate, orally and in writing, with patients and their families, colleagues, healthcare providers and the public.

An individual who poses a direct threat to the health or safety of others or themselves may be denied admission, progression and graduation. The College's determination that a person poses a direct threat will be based on an individualized assessment that relies on current medical evidence or on the best available evidence. This evidence will be used to assess 1) the nature, duration and severity of the risk and 2) the probability that the potential injury will actually occur. For additional information on specific, job-related standards, a student should consult the program of his or her choice.

Due to the unique responsibilities involved in the nursing and allied health professions, each program reserves the right to require a student to withdraw. The programs will assert this right for the student who does not meet all of the published technical/performance standards, and the student will be guided into another curriculum of study at the College.

For information concerning preprofessional programs in the medical, nursing and allied health fields (those programs designed to prepare students for transfer to upper-division colleges and universities), students should consult the section on Associate in Arts programs.

Special and Additional Requirements to Specific Associate in Science Degree Programs

Emergency Medical Services

- Entry into any Emergency Medical Services (EMS) course is restricted to students who have met with an EMS advisor and have received approval to enter the class.
- 2. If a student wishes to take any EMS class, he or she should note that the classes must be taken in order. Students must complete First Responder (EMS 1059, EMS 1059L), then Emergency Medical Technician (EMS 1119, 1119L, 1431) and finally, Paramedic (separate courses).
- 3. If a student wishes to enter Emergency Medical Technician (EMT) or paramedic courses, he or she must have passing scores on the computer placement test (CPT) or have satisfactorily completed the required College Preparatory courses. Students may be exempt from the CPT as per the College catalog. Applicants must test out of the first level of college prep on the CPT test for First Responder.
- 4. Students must demonstrate comprehension and proficiency in the English language at the college level.
- Students may (at the discretion of the chairperson) receive credit for certain classes (EMS 1059, 1059L, 1119, 1119L or 1431) taken at other accredited institutions. However, students may not skip any required courses under any circumstances.
- To enter the paramedic program, students must have successfully completed BSC 2085 and 2085L.
- Once the paramedic prerequisites are met, students must submit applications by the deadline for the specific term desired and complete the Paramedic Entrance Exam.

Health Information Management

Students must:

1. Demonstrate comprehension and proficiency in the English language

- at the College level.
- Satisfactorily complete an end-of-program competency assessment examination.

Nursing, Associate Degree, R.N. (Three Options)

Interested students should submit an application to the School of Nursing indicating their desired date of entry and desired nursing option. Late applications may be considered if space is available. Students should contact the New Student Center on the Medical Center Campus to request a School of Nursing Information Booklet for specific, detailed information.

To be eligible for selection into a nursing option, all applicants must meet previously stated criteria and:

- 1. Current status as a Miami Dade College degree-seeking student with all required college preparatory courses successfully completed.
- Cumulative GPA of 2.0 or higher for any college-level courses completed and a grade of C or above for any course required for the Nursing program.
- No more than a total of three grades of D, F or W in the natural science courses required for the program.
- No more than two enrollments (one D, F or W) for any individual science course required for the program.

The School of Nursing reserves the right to add, withdraw, revise or substitute courses as necessary to maintain the quality of the nursing programs.

Generic Option

This is the basic option for the student who seeks a career in nursing. The following descriptions of options are for students with specific educational or nursing backgrounds. Students can choose any option for which they are eligible. The full-time track takes four semesters to complete. Classes begin each August and January. The part-time track takes eight semesters and begins in August. Refer to the School of Nursing Information Booklet for specific information.

Bridge Option

This is designed for licensed practical nurses (LPN) or other individuals with

healthcare education and licensure or certification. Detailed information about eligibility requirements is found in the School of Nursing Information Booklet. The full-time track takes one year to complete. Classes begin each August and January. The part-time track takes two years and begins in January. Refer to the School of Nursing Information Booklet for specific information.

In addition to the requirements for all nursing applicants, students interested in the Bridge Option's full-time track must also, before beginning, complete all but three of the general education and science course requirements.

Furthermore, all applicants to the Bridge Option must:

- Have LPN licensure (or have educational background in another selected health career)
- 2. Successfully complete Practical Nursing Achievement Test
- 3. Complete Nurse Skills Update course

Accelerated Option

This option is designed for those who hold a bachelor's degree or higher from an accredited institution in any field of study and seek a career change to nursing providers. This intensive, full-time program takes one year to complete. Classes begin August and January.

In addition to the requirements for all nursing applicants, students interested in the Accelerated Option must complete the following additional requirements to be eligible for selection:

- 1. Hold a bachelor's degree from an accredited institution
- 2. Earn a score of 78 or above on the basic skills reading test (CPT)
- Complete 15 natural science/mathematics credits, including BSC 2085, 2085L, 2086, 2086L, with a C or higher. Accelerated Option candidates are exempt from the general education core, but will be required to complete the health career core or equivalent to be eligible
- 4. Individuals who hold degrees from institutions outside the United States must refer to the School of Nursing Information Booklet for more specific information about their eligibility for this nursing option.

Radiologic Technology

This program is designed for the radiologic technologist who is already a graduate of an accredited hospital radiographer program. Upon presentation of satisfactory evidence of such graduation, and proof of current registration with the American Registry of Radiologic Technologists, students may be granted 57 credits and will be able to earn the Associate of Applied Science degree by completion of 20 additional credit hours.

Further information may be obtained by calling the Radiologic Sciences Department at Medical Center Campus.

Additional Offerings

Health Sciences and Related Studies Department

The Health Sciences and Related Studies Department offers many of the required college credit and vocational credit courses and labs students need for admission and graduation from the Health Care programs offered at Medical Center Campus. The natural sciences and general education courses offered by the College include:

BSC 2085/6 Human Anatomy and Physiology & Labs Psychology of Personal CLP 1006 Effectiveness CHM 1033 Chemistry for Health Sciences **DEP 2000** Human Growth and Development HSC 0003 Introduction to Health Care MCB 2010 Microbiology MNA 1345 Effective Supervision PHI 2604 Critical Thinking and Ethics SLS 1310 Introduction to Health Careers

These Miami Dade College courses are taught at Medical Center Campus, the other campuses and offered at local health care organizations through the Alliance for Employee Advancement.

The Alliance for Employee Advancement is a cooperative effort between health care organizations in Miami-Dade County and the Medical Center Campus of Miami Dade College. This alliance provides on-site educational opportunities to college students and employees in the health care field.

Community Education, Medical Center Campus

Medical Center Campus provides professional continuing education for the health care community by offering courses in many of the nursing and allied health disciplines. Health care providers matriculate in these courses to meet state licensure, national registry or certification requirements for their respective board or association. Students take these courses to maintain and update competence, learn new skills in their field and/ or to become multiskilled/cross-trained.

Contract Education and Custom Designed Courses

Courses can be developed on a contract-for-services basis with local and state agencies. Individual courses, or a series of offerings, can be custom designed to meet an agency's specific educational and training needs.

Refresher Courses

These courses are designed to keep healthcare professionals updated in their fields and to meet re-licensure or certification requirements.

Remediation Courses

These are 10-week Florida Board of Nursing-approved remediation courses designed to prepare individuals for the National Council Licensing Examinations for registered nurses (NCLEX-RN) and practical nurses (NCLEX-PN).

Licensing Examination Review Courses

These courses prepare Allied Health and Nursing graduates for licensing examinations.

Contact Hours for Relicensure

These courses focus on topics relevant to health care professionals, with contact hours being provided for relicensure.

The courses include CPR, ACLS, preventing medical errors, HIV/AIDS and domestic violence.

Cross-Training/ Multi-Skilling

These courses build on current expertise and expand interpretation practice possibilities. The courses include EKG, phlebotomy, basic x-ray machine operator, MRI and IV therapy for LPNs.

Internships/Preceptorships

Clinically oriented programs are offered to cross-train registered nurses to assume new challenges. These programs are offered in several disciplines, including perioperative, childbirth education, emergency room and critical care nursing.

Community Education

The College provides community-based organizations (e.g. schools, churches and nonprofit organizations) with seminars, workshops, short courses, lectures and health fairs. These events cover a broad range of health-related topics.



Associate in Science

Dental Hygiene Associate in Science

Total credits required for Associate in Science degree: 88

The dental hygienist is a licensed member of the dental health team dedicated to helping patients maintain good oral health and prevent dental disease and disorders. The dental hygienist performs dental cleaning, teaches patients proper oral care, takes x-rays and provides nutritional counseling for optimal oral health.

Additional Information: Due to the limited number of students that can be accepted into the Dental Hygiene program, it is important that applicants be properly informed. For information, advisement, application forms and deadline dates, interested students should contact the Department of Dental Hygiene at Medical Center Campus.

Diagnostic Medical Sonography Technology Associate in Science

Total credits required for Associate in Science degree: 72

The Diagnostic Medical Sonography Technology program prepares the student to become a diagnostic medical sonographer. The diagnostic medical sonographer provides patient services using diagnostic ultrasound under the supervision of a doctor of medicine or osteopathy who is responsible for the use and interpretation of ultrasound procedures. The sonographer assists the physician in gathering sonographic data necessary to reach diagnostic decisions.

Emergency Medical Services Associate in Science

Total credits required for Associate in Science degree: 73

The Emergency Medical Services program is designed according to national and state standards. Graduates will perform as advanced practitioners and as leaders in the technical supervisory and managerial aspects of advanced emergency care. Graduates will be prepared primarily for employment in agencies

providing pre-hospital emergency medical care and secondarily, for jobs in emergency and other acute care areas of the hospital.

Additional Information: It is important that applicants be properly informed. For information, advisement, application forms, selection criteria and deadline dates, interested students should contact the Department of Emergency Medical Services at Medical Center Campus.

Health Information Management Associate in Science

Total credits required for Associate in Science degree: 67

The Health Information Management program prepares the individual for employment as a health information technician in a variety of health care facilities. The technician may function in various capacities, having responsibilities such as coding of diagnoses and procedures; processing of health information; storage and retrieval of health information and statistical reporting. Other aspects of the curriculum include medical/legal aspects, quality assessment and supervision of the daily operations of a Health Information Department. Management of computerized health information is emphasized. Clinical experiences are provided under the supervision of qualified professionals to enhance classroom instruction and demonstrate current advances in health information practice. A grade of C or better is required in all program courses.

Histologic Technology Associate in Science

Total credits required for Associate in Science degree: 76

The Histologic Technology program prepares the student for employment in an unlimited choice of practice settings including: hospitals, clinics, clinical laboratories, veterinary pathology and forensic pathology. A histotechnologist will be able to freeze, embed, and cut tissues, mount tissue samples on slides and stain them with dyes to make the cell details visible under the microscope. Graduates are eligible to sit for the Florida state licensure and registry with the American Society of Clinical Pathologists and equivalent licensure.

Additional Information: Due to the limited number of students that can be accepted into the Histologic Technology program, it is important that applicants be properly informed. For information, advisement, application forms, and deadline dates, interested students should contact the Department of Histologic Technology at Medical Center Campus.

Medical Laboratory Technology Associate in Science

Total credits required for Associate in Science degree: 76

The Medical Laboratory Technology program prepares the graduate to work as part of the health care delivery team in a non-profit clinical laboratory or research laboratory. Clinical practice is conducted in local health care facilities under the supervision of qualified, registered professional personnel. Graduates are eligible for Florida state licensure and registry with the American Society of Clinical Pathologists and equivalent licensure.

Additional Information: Due to the limited number of students that can be accepted into the Medical Laboratory Technology program, it is important that applicants be properly informed. For information, advisement, application forms, and deadline dates, interested students should contact the Department of Medical Laboratory Technology at Medical Center Campus.

Midwifery Associate in Science

Total credits required for Associate in Science degree: 90

The Midwifery program prepares students to provide care for mothers who are expected to have a normal pregnancy, labor and delivery. Classroom and clinical instruction incorporates the core competencies established by the Midwives Alliance of North America and the American College of Nurse-Midwives. The student who successfully completes this program will earn an Associate in Science degree in Midwifery and satisfy the educational requirements to take the state board examination to become a Florida licensed midwife. This program is approved by the state of Florida Council

of Licensed Midwifery and accredited by the Midwifery Education Accreditation Council. For specific program admission requirements, see a Midwifery Information Booklet or Contact the New Student Center at Medical Center Campus 305-237-4141.

Additional Information: Due to the limited number of students that can be accepted into the Midwifery program, it is important that applicants be properly informed. For information, advisement, application forms and deadline dates, interested students should contact the New Student Center at Medical Center Campus.

Nuclear Medicine Technology Associate in Science

Total credits required for Associate in Science degree: 75

The Nuclear Medicine Technology program is designed to prepare selected students to qualify as nuclear medicine technologists in hospitals, outpatient diagnostic imaging centers and private physician offices. These contributing members of the allied health team prepare and administer the tracer radio pharmaceuticals to patients and record the image using computerized detection systems for medical diagnosis. Successful completion of this two-year program qualifies graduates to apply for the American Registry for Radiologic Technologists examination in Nuclear Medicine and/ or the Nuclear Medicine Technology Certification Board Examination leading to certification as a registered Nuclear Medicine Technologist and gainful employment as such.

Additional information: Due to the limited number of students that can be accepted into the Nuclear Medicine Technology program, it is important that applicants be properly informed. For information, advisement, application forms and deadline dates, interested students should contact the Department of Radiologic Sciences at Medical Center Campus. Note: All applicants must attend an information session before acceptance into the Nuclear Medicine Technology program. Application Deadline is May 1st for the class beginning summer term. Students should visit the New Student Center for more information. Note:

Applicants must pass a physical, meet physical requirements, and complete an approved CPR course and an approved HIV/AIDS course before beginning the Nuclear Medicine Technology program.

Nursing, R.N. (Accelerated) Associate in Science

Total credits required for Associate in Science degree: 72

*This program transfers to fouryear institutions. See department for information.

The Accelerated Option in Nursing is designed to prepare the student with a baccalaureate or higher in other disciplines for a career as a Registered nurse (RN) at the associate-degree level. The content and clinical experiences are designed to meet the learning and professional socialization needs of this special category of student. The program is accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway, New York, NY 10006, 212-363-5555, www.nlnac.org) and approved by the Florida Board of Nursing. Graduates are eligible to apply to the National Council Licensing Examination for Registered Nurses (NCLEX-RN).

Selection is based on the student's cumulative grade point average (GPA) and successful completion or those who are currently enrolled in all prerequisite courses for the nursing program option to which they are applying. See a School of Nursing Information Booklet for more specific details about admission requirements.

Program admission requirements:

- Current status as a Miami Dade degreeseeking student with all required college preparatory courses successfully completed
- Score of 78 or higher on the CPT Reading exam
- Cumulative GPA of 2.0 or higher and a grade of C or above for any course required for the Nursing Program
- No more than a total of three grades of D, F or W in the Natural Science courses required for the program
- No more than two grades of D, F or W in any individual Natural Science course required for the program

Additional Information: Due to the limited number of students that can be

accepted into the School of Nursing associate degree programs, it is important that applicants be properly informed. For information, advisement, application forms and deadline dates, interested students should contact the New Student Center, Medical Center Campus.

Note: Anatomy & Physiology grades must be earned within 10 years of admission into the associate degree Nursing program. If these grades are more than 10 years old, please see an academic advisor.

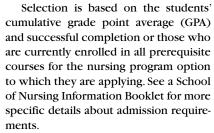
The Florida Board of Nursing requires disclosure of arrests (except traffic violations) upon application to nursing programs. Upon completion, graduates are eligible to apply to write the NCLEX-RN. Final determination to become licensed rests with the Board of Nursing.

Nursing, R.N. Generic -(Full-Time Track) Associate in Science

Total credits required for Associate in Science degree: 72

* This program transfers to fouryear institutions. See department for information.

The Generic Nursing option is designed to prepare students without previous health care education for careers as registered nurses. This program is accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway, New York, NY 10006, 212-363-5555, www.nlnac.org) and approved by the Florida Board of Nursing. Graduates are eligible to apply to write the NCLEX-RN.



Program admission requirements:

- Current status as a Miami Dade College degree-seeking student with all required college preparatory courses successfully completed.
- Cumulative GPA of 2.0 or higher and a grade of C or above for any course required for the Nursing program.
- No more than a total of three grades of D, F or W in the Natural Science courses required for the program.
- No more than two grades of D, F or W in any individual Natural Science course required for the program.

Additional Information: Due to the limited number of students that can be accepted into the School of Nursing Associate Degree Programs, it is important that applicants be properly informed. For information, advisement, application forms and deadline dates, interested students should contact the New Student Center, Medical Center Campus.

Note: Anatomy & Physiology grades must be earned within 10 years of admission into the associate degree Nursing program. If these are more than 10 years old, please see an Academic advisor.

The Florida Board of Nursing requires disclosure of arrests (except traffic violations) upon application to nursing programs. Upon completion, graduates are eligible to apply to write the NCLEX-RN. Final determination to become licensed rests with the Board of Nursing.

Nursing, R.N. Generic -(Part-Time Track) Associate in Science

Total credits required for Associate in Science degree: 72

* This program transfers to fouryear institutions. See department for information.

The Generic Nursing Option is designed to prepare students with-



out previous health care education for careers as Registered Nurses. This program is accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway, New York, NY 10006, 212-363-5555, www.nlnac.org, and approved by the Florida Board of Nursing. Graduates are eligible to apply to write the NCLEX-RN. The part-time track is designed for individuals who must work while they attend school.

Selection is based on the student's cumulative grade point average (GPA) and successful completion or those who are currently enrolled in all prerequisite courses for the nursing program option to which they are applying. See a School of Nursing Information Booklet for more specific details about admission requirements.

Program admission requirements:

- Current status as a Miami Dade degreeseeking student with all required college preparatory courses successfully completed.
- Cumulative GPA of 2.0 or higher and a grade of C or above for any course required for the Nursing program.
- No more than a total of three grades of D, F or W in the Natural Science courses required for the program.
- No more than two grades of D, F or W in any individual Natural Science course required for the program.

Additional Information: Due to the limited number of students that can be accepted into the School of Nursing associate degree programs, it is important that applicants be properly informed. For information, advisement, application forms and deadline dates, interested students should contact the New Student Center at Medical Center Campus.

Note: Anatomy & Physiology grades must be earned within 10 years of admission into the associate degree Nursing program. If these are more than 10 years old, please see an academic advisor.

The Florida Board of Nursing requires disclosure of arrests (except traffic violations) upon application to nursing programs. Upon completion, graduates are eligible to apply to write the NCLEX-RN. Final determination to become licensed rests with the Board of Nursing.

Nursing, R.N., Bridge -(Full-Time Track) Associate in Science

Total credits required for Associate in Science degree: 72

* This program transfers to four-year institutions. See department for information.

The Bridge Option in Nursing is designed to prepare Licensed Practical Nurses (LPN) and selected other individuals with National Licensure or Certification for practice as a Registered Nurse (RN). The content and clinical experiences are designed to meet the learning and professional socialization needs of this special category of student. The program is accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway, New York, NY 10006, 212-363-5555, www.nlnac.org, and approved by the Florida Board of Nursing. Graduates are eligible to apply to write the NCLEX-RN. www.fldoe.org/CC/Educators/bach_

Selection is based on the student's cumulative grade point average (GPA) and successful completion or those who are currently enrolled in all prerequisite courses for the nursing program option to which they are applying. See a School of Nursing Information Booklet for more specific details about admission requirements.

Program admission requirements:

- Non-Licensed Practical Nurse (LPN) applicants must take NRG 051 before applying to the program.
- Licensed Practical Nurse (LPN) applicants who have been out of practice for five or more years must take NRG 051 before applying.
- Current status as a Miami Dade degree seeking student with all required college preparatory courses successfully completed.
- Cumulative GPA of 2.0 or higher and a grade of C or above for any course required for the Nursing program.
- No more than a total of three grades of D, F or W in the Natural Science courses required for the program.
- No more than two grades of D, F or W in any individual Natural Science course required for the program.
- · Successful completion of the National

League for Nursing Exam (NLN) with a score of 128 or higher, no more than five years old, or successful completion of the Practical Nursing Achievement Test with a score of 70 percent or higher.

Additional Information: Due to the limited number of students that can be accepted into the School of Nursing associate degree programs, it is important that applicants be properly informed. For information, advisement, application forms and deadline dates, interested students should contact the New Student Center, Medical Center Campus.

Note: Anatomy & Physiology grades must be earned within 10 years of admission into the associate degree Nursing program. If these are more than 10 years old, please see an Academic advisor.

The Florida Board of Nursing requires disclosure of arrests (except traffic violations) upon application to nursing programs. Upon completion, graduates are eligible to apply to write NCLEX-RN. Final determination to become licensed rests with the Board of Nursing.

Nursing, R.N., Bridge -(Part-Time Track) Associate in Science

Total credits required for Associate in Science degree: 72

*This program transfers to fouryear institutions. See department for more information.

The Bridge Option in Nursing is designed to prepare licensed practical nurses (LPN) and selected other individuals with national licensure or certification for practice as a registered nurse (RN). The content and clinical experiences are designed to meet the learning and professional socialization needs of this special category of student. The program is accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway, New York, NY 10006, 212-363-5555, www.nlnac.org, and approved by the Florida Board of Nursing. Graduates are eligible to apply to write the NCLEX-RN. The part-time track is designed for individuals who work full-time. Selection is based on the student's cumulative grade point average (GPA) and successful completion or those who are currently enrolled in all prerequisite courses for the nursing 92



program option to which they are applying. See a School of Nursing Information Booklet for more specific details about admission requirements.

Program admission requirements:

- Non-licensed practical nurse applicants must take NRG 051 before applying to the program.
- Licensed practical nurse (LPN) applicants who have been out of practice for five or more years must take NRG 051 before applying.
- Current status as a Miami Dade degreeseeking student with all required college preparatory courses successfully completed.
- Cumulative GPA of 2.0 or higher and a grade of C or above for any course required for the Nursing program.
- No more than a total of three grades of D, F or W in the Natural Science courses required for the program.
- No more than two grades of D, F or W in any individual Natural Science course required for the program.
- Successful completion of the National League for Nursing with a score of 128 or higher, no more than five years old, or successful completion of the Practical Nursing Achievement Test with a score of 70 percent or higher.

Additional Information: Due to the limited number of students that can be accepted into the School of Nursing associate degree programs, it is important that applicants be properly informed. For information, advisement, application forms and deadline dates, interested students should contact the New Student Center, Medical Center Campus.

Note: Anatomy & Physiology grades must be earned within 10 years of admission into the associate degree Nursing program. If these are more than 10 years old, please see an Academic advisor.

The Florida Board of Nursing requires disclosure of arrests (except traffic violations) upon application to nursing programs and upon application to write NCLEX-RN. Final determination to become licensed rests with the Board of Nursing.

Opticianry Associate in Science

Total credits required for Associate in Science degree: 72

The Opticianry program simultaneously prepares students for three oph-

thalmic health care careers: optician, optometric technician and ophthalmic medical assistant. A concentrated presentation of general education courses combined with career development and clinical experience accomplishes this multi-disciplinary approach. Among the marketable skills acquired are clinical data collection, ophthalmic fabrication and ophthalmic dispensing. The student begins working with patients during the third semester in clinics staffed by ophthalmologists, optometrists and opticians. A student must maintain a grade point average of 2.0 or better in each course with an "OPT" prefix in order to advance within the program. The successful completion of this program offers the graduate a challenging and rewarding career on an ophthalmic health care team. Graduates are eligible to sit for the Opticianry Licensure Examination and the Optometric Technician Registration Examination. After one year of work experience with an ophthalmologist, graduates may sit for the Ophthalmic Medical Assistant Certification Examination. The Opticianry program is approved by the Council on Optometric Education and the Commission on Opticianry Accreditation.

Additional Information: Due to the limited number of students that can be accepted into the Opticianry program, it is important that applicants be properly informed. For information, advisement, application forms and deadline dates, interested students should contact the Department of Opticianry at Medical Center Campus.

Physical Therapist Assistant Associate in Science

Total credits required for Associate in Science degree: 74

The Physical Therapist Assistant program prepares students for employment in hospitals, rehabilitation centers, nursing homes, private practices or other qualified health agencies. Graduates will work under the supervision of a physical therapist in the promotion of optimal human health and function through the application of scientific principles to prevent, identify, correct or alleviate acute or prolonged physical disability of anatomic or physiologic origin.

Externship or clinical practice is conducted in local health care facilities under the supervision of qualified professional personnel. The program is accredited by the Commission on Accreditation in Physical Therapy Education. Graduates of the program are eligible to take the State Board Examination and receive an Associate in Science degree in Physical Therapist Assisting.

Additional Information: Due to the limited number of students that can be accepted into the Physical Therapist Assistant program, it is important that applicants be properly informed. For information, advisement, application forms and deadline dates, interested students should contact the Department of Physical Therapist Assistant at Medical Center Campus.

Physician Assistant Associate in Science

Total credits required for Associate in Science degree: 88

Graduates of the Physician Assistant program are prepared for employment as part of the health care delivery team to work under the direct supervision of a licensed physician. Students are instructed in various aspects of medical care, theory, instrumentation, diagnosis and treatment including prescribing and administration of drugs. There is a concentration of general education and Physician Assistant courses combined with hospital and office practice under the supervision of a licensed physician. Graduates will be eligible to sit for the National Commission of Certification of Physician Assistants.

Additional Information: Most clinical rotations are offered every term to maximize the utilization of sites available to students.

Radiation Therapy Technology Associate in Science

Total credits required for Associate in Science degree: 77

The Radiation Therapy Technology program prepares the student to function as a radiation therapist. The radiation therapist is a key member of a professional team using various forms of radiation to treat cancer. Three major areas of responsibility are daily treatments,

patient support and treatment planning. The educational process includes a close integration of classroom, laboratory and clinical education.

Respiratory Care Associate in Science

Total credits required for Associate in Science degree: 76

The Respiratory Care program prepares the successful graduates for employment in health agencies where they will work with physicians and other professionals in treating patients with respiratory ailments or injuries affecting the respiratory function. Emphasis will be placed on supervised clinical instruction and practice in local health care facilities. Completion of this two-year accredited program enables the graduate to apply for entry into the examination Process of the National Board of Respiratory Care. A grade of C or better is required in each course.

Additional Information: Due to the limited number of students that can be accepted into the Respiratory Care program, it is important that applicants be properly informed. For information, advisement, application forms and deadline dates, interested students should contact the Department of Cardiorespiratory Technologies at Medical Center Campus.

Veterinary Technology Associate in Science

Total credits required for Associate in Science degree: 73

The Veterinary Technology program prepares students to assist veterinarians in their daily practice, working with all types of animals and in various disciplines within the realm of veterinary medicine. Tasks include providing total nursing care to the sick or injured patient, handling and restraint, assisting during examinations and surgical procedures, performing dental hygiene and radiographic exams and collection and analysis of diagnostic specimens. Graduates are eligible to apply to take the Veterinary Technician National Examination (VTNE) and the Florida Practical Exam (FPE).

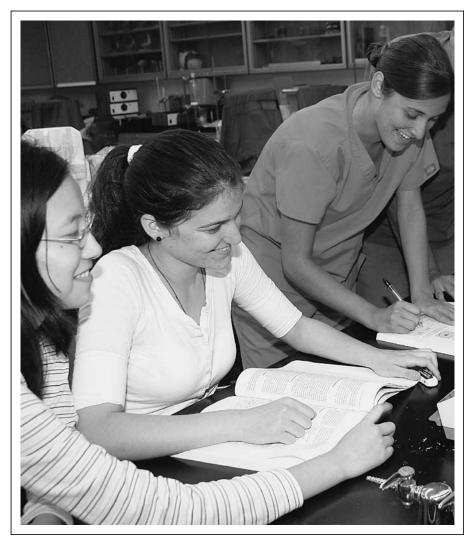
Associate of Applied Science (AAS)

The two-year Associate of Applied Science degree is similar to the Associate in Science degree in that it prepares individuals for entry into a career upon graduation. Like the A.S., the AAS was established to prepare individuals for careers requiring specialized study at the college level. However, the AAS degree may not articulate or transfer to the upper-divisions. The AAS degree programs are comprised mostly of courses directly related to the identified career area. The remaining courses are comprised of general education classes such as English, oral communications, math/ science, behavioral/social science and humanities.

Radiography Associate of Applied Science

Total credits required for the degree: 77

The Radiography program is an Associate of Applied Science degree, which provides a broad base of education and performance-based clinical experience in all technical aspects of work as a Radiographer. Experience is provided in all routine general and fluoroscopic procedures, special procedures and in the use of the specialized equipment and techniques available in the affiliated clinical education centers. The graduate is eligible to apply to take the Registry Examination of the American Registry of Radiologic Technologists. The application deadline is Feb.15 for the class beginning the following sum-



94



Additional Information: All applicants must attend an Information Session before acceptance into the Radiography program. Applicants must pass a physical, meet physical requirements, must complete an approved CPR course and an approved HIV/AIDS course before beginning the Radiography program.

Due to the limited number of students that can be accepted into the Radiography program, it is important that applicants be properly informed. For information, advisement, application forms and deadline dates, interested students should contact the Department of Radiologic Sciences at Medical Center Campus.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

College Credit Certificates

Emergency Medical Technician - Basic College Credit Certificate

Total credits required for the Certificate: 11

The Emergency Medical Technician - Basic College Credit Certificate is a one-semester program, which prepares students to function in the hospital and pre-hospital environment. Graduates of this program can perform clinical data collection, patient assessment and provide immediate care and safe relocation of the acutely ill. Satisfactory completion of this program will qualify the graduate to sit for the state and/or national EMT certification examination. This program is approved by the Florida Department of Health and Rehabilitative Services.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Nuclear Medicine Technology Specialist College Credit Certificate

Total credits required for the College Credit Certificate: 48

Students in this track must have an earned degree (minimum A.S./AAS), and must have completed CHM1033, CHM1033L, MAC1105 and PHY1004 prior to admission into the Nuclear Medicine Technology Specialist College Credit Certificate program.

The Nuclear Medicine Technology program is designed to prepare selected students to qualify as nuclear medicine technologists in hospitals, outpatient diagnostic imaging centers, and private physician's offices. These contributing members of the allied health team prepare and administer the tracer radiopharmaceuticals to the patients and record the image using computerized detection systems for medical diagnosis. Successful completion of this one-year program qualifies graduates to apply to take the American Registry for Radiologic Technologists examination in nuclear medicine and/or the nuclear medicine technology certification board examination leading to certification as a registered nuclear medicine technologist and gainful employment as such.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Paramedic College Credit Certificate

Total credits required for the College Credit Certificate: 42

The Paramedic College Credit Certificate program prepares students as paramedics who are health care professionals in addition to the responsibilities of an emergency medical technician (EMT). A graduate paramedic can perform certain invasive procedures under the direction of a physician. Satisfactory completion of the program will qualify the graduate to sit for the state and/or national paramedic certification examination. This program is accredited by the Committee on Allied Health Education and Accreditation.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Career Technical Education Programs

Massage Therapy -Accelerated Option Career Certificate

Minimum Grade Level Required for Certificate and Graduation: Mathematics: 9; Language: 10; Reading: 10 Program Length: 750 contact hours (25 vocational credits)

The total contact hours required for Career Certificate: 750

The two-semester program prepares individuals to provide various techniques of massage of the back, head and feet, including reflexology, rolling and trigger point therapy. There is an emphasis on the therapist/client relationship and records management for clients and payment. Upon successful completion of this program, the graduate is eligible to sit for the Florida Massage Therapy licensure examination. Test of Adult Basic Education (TABE) is required.

Additional Information: MSS0995 will be awarded to individuals who are licensed Physical Therapists or Physical Therapist Assistants. MSS0995 provides for credit for the following exempt courses: HSC0003, MSS0156, MSS0156L, MSS0300, MSS0300L and MSS0803C.

Due to the limited number of students that can be accepted into the Massage Therapy Program, it is important that applicants be properly informed. For information, advisement, application forms, selection criteria and deadline dates, interested students should contact the Vocational Credit Student Resources Center at Medical Center Campus.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Massage Therapy -Generic Option Career Certificate

Minimum Grade Level Required for Certificate and Graduation: Mathematics: 9; Language: 10; Reading: 10 Program Length: 750 contact hours (25 vocational credits)

The total contact hours required for Career Certificate: 750

The two-semester program prepares individuals to provide various techniques of massage of the back, head and feet, including reflexology, rolling and trigger point therapy. There is an emphasis on the therapist/client relationship and records management for clients and payment. Upon successful completion of this program, the graduate is eligible to sit for the Florida Massage Therapy

licensure examination. Test of Adult Basic Education (TABE) is required.

Additional Information: Due to the limited number of students that can be accepted into the Massage Therapy Program, it is important that applicants be properly informed. For information, advisement, application forms, selection criteria and deadline dates, interested students should contact the Vocational Credit Student Resources Center, Medical Center Campus. HSC0003 - Introduction to Health Care or its equivalent will be required for admission into the Massage Therapy Program.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Massage Therapy -Transitional Option Career Certificate

Minimum Grade Level Required for Certificate and Graduation: Mathematics: 9; Language: 10; Reading: 10

Program Length: 750 contact hours (25 vocational credits)

The total contact bours required for Career Certificate: 750

The two-semester program prepares individuals to provide various techniques of massage of the back, head and feet, including reflexology, rolling and trigger point therapy. There is an emphasis on the therapist/client relationship and records management for clients and payment. Upon successful completion of this program, the graduate is eligible to sit for the Florida Massage Therapy licensure examination. Test of Adult Basic Education (TABE) is required.

Additional Information: MSS0996 will be awarded to individuals who are licensed in an Allied Health profession and/or Nursing (associate degree or higher). MSS0996 provides for credit for the following exempt courses: HSC0003, MSS0156 and MSS0156L.

Due to the limited number of students that can be accepted into the Massage Therapy Program, it is important that applicants be properly informed. For information, advisement, application forms, selection criteria and deadline dates, interested students should contact the Vocational Credit Student Resources Center at Medical Center Campus.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Medical Assisting Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 10; Language: 10;

Reading: 10

Program Length: 1,300 contact hours

(43.3 vocational credits)

The total contact hours required for Career Certificate: 1,300

The Medical Assisting program, which is 1 year (3 semesters) in length, prepares individuals to provide health services in ambulatory out-patient facilities, including medical offices and clinics. Medical assistants participate in diagnostic, clinical, and administrative functions. Diagnostic functions include drawing blood, performing basic laboratory tests and taking EKGs and X-Rays. Clinical functions include obtaining vital signs, preparing patients for and assisting with examinations and procedures, administering medications and performing treatments. Administrative functions include serving as receptionists, scheduling appointments and diagnostic procedures, managing records, completing insurance coding and providing for billing and collecting. Medical assistants use computer technology to manage records, billing and other aspects of a medical office or clinic. Students participate in an externship each semester to gain experience in every aspect of the medical assistant's practice. Test of Adult Basic Education (TABE) is required.

Additional Information: Due to the limited number of students that can be accepted into the Medical Assisting program, it is important that applicants be properly informed. For information, advisement, application forms, selection criteria and deadline dates, interested students should contact the Vocational Credit Student Resources Center at Medical Center Campus 305-237-4374.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Medical Coder/Biller Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9; Language: 11;

Reading: 11

Program Length: 1,000 contact hours

(33.3 vocational credits)

The total contact hours required for Career Certificate: 1,000

The Medical Coder/Biller program prepares individuals for employment as Medical Coder/Billers. The student will learn to translate diagnoses and procedures into numerical designation (coding) using the International Classification of Diseases (ICD-9-CM) and Current Procedural Terminology (CPT-4). The program involves coding, classifying and indexing diagnoses and procedures for purposes of standardization, retrieval and statistical analysis. The student will also be trained to prepare and file medical insurance claim forms for reimbursement. Electronic claims transmission is included. There is special emphasis on ethical and legal responsibilities, data quality, financial reimbursement, Diagnosis Related Groups (DRGs) and Ambulatory Patient Classification (APCs). Test of Adult Basic Education (TABE) is required.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Medical Record Transcribing Career Certificate

Minimum Grade Level Required for Certificate and Graduation:

Mathematics: 9; Language: 11;

Reading: 11

Program Length: 1,200 contact hours (40 vocational credits)

The total contact bours required for Medical Record Transcribing: 1,200

The Medical Record Transcribing program prepares individuals to transcribe medical records from recorded dictation. The individual prepares and types reports in appropriate format for use by health care facilities, physicians, insurance companies, legal proceedings and research specialists.

Test of Adult Basic Education (TABE) is required.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx 96



Pharmacy Technician Career Certificate

Minimum Grade Level Required for Certificate and Graduation: Mathematics: 11; Language: 10;

Reading: 10

Program Length: 1,050 contact hours

(35 vocational credits)

The total contact hours required for Career Certificate: 1,050

The Pharmacy Technician program prepares individuals for employment as Pharmacy Technicians. The Pharmacy Technician works primarily in retail and hospital pharmacies under the supervision of a registered pharmacist in the packaging and distribution of medi-

cation. Test of Adult Basic Education (TABE) is required.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Phlebotomy Career Certificate

Minimum Grade Level Required for Certificate and Graduation: Mathematics: 9; Language: 10;

Reading: 10

Program Length: 165 contact hours

(5.5 vocational credits)

The total contact hours required for Phlebotomy: 165

The Phlebotomy program is designed to prepare students for employment in

a hospital laboratory, blood center or other health care facility to draw blood by venipuncture and capillary puncture. Students are taught safe and efficient work practices in obtaining adequate and correct blood specimens, labeling specimens and transporting specimens correctly to the appropriate laboratory sections. The Center for Disease Control (CDC) guidelines for HIV/AIDS, Hepatitis B and other diseases are stressed.

Additional Information: Due to the limited number of students that can be accepted into the Phlebotomy program, it is important that applicants be properly informed. For information, advisement, application forms, selection criteria and deadline dates, interested students should contact the Vocational Credit Student Resources Center at Medical Center Campus.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx

Practical Nursing Career Certificate

Minimum Grade Level Required for Certificate and Graduation: Mathematics: 11: Language: 11:

Reading: 11

Program Length: 1,350 contact hours

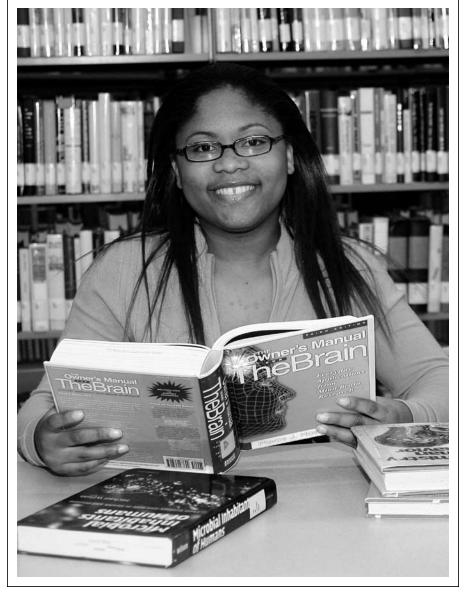
(45 vocational credits)

The total contact bours required for Career Certificate: 1,350

Practical nurses perform selected duties, including the administration of treatments and medications in the care of the ill, injured or infirm and promote wellness, the maintenance of health and prevention of illness under the direction of a registered nurse, licensed physician or licensed dentist. Graduates are eligible to apply to write the NCLEX-PN to become Licensed Practical Nurses. Test of Adult Basic Education (TABE) and Nurse Entrance Test (NET) are required.

Additional Information: Due to the limited number of students that can be accepted into the Practical Nursing program, it is important that applicants be properly informed. For information, advisement, application forms, selection criteria and deadline dates, interested students should contact the Vocational Credit Student Resources Center, Medical Center Campus 305-237-4374.

For more information please visit https://sisvsr.mdc.edu/ps/sheet.aspx



Collegewide Schools

he College has adopted a management approach to the delivery of occupational and technical education, including respective transfer options through a system of collegewide schools. The primary objective is to serve students more effectively and efficiently, provide more accessible programs countywide, and be more responsive to the needs of business and industry.

School Of Architecture And Interior Design

The School of Architecture and Interior Design is a Collegewide entity administered at Wolfson Campus. Academic programs are offered throughout the College to provide outstanding educational opportunities and state-of-the-art training to students in the architecture, interior design and construction fields.

The School of Architecture and Interior Design offers the Associate in Arts degrees with concentrations in architecture, building construction, interior design and landscape architecture. Upon completion, graduates transfer to upper-division programs at state institutions and elsewhere.

For students desiring intensive training leading to employment in a variety of occupations in the above fields, the School of Architecture and Interior Design offers the Associate in Science in architectural design and construction technology, building construction technology and interior design technology. In addition, students can also graduate with a College Credit Certificate as a computer-aided design assistant and as a computer-aided design operator.

The disciplines of architecture and interior design are very similar in relation to the type of learning that students must acquire in the two years of study at the College. There are also widely diverging outcomes regarding the different areas of specialization in advanced courses. These disciplines are task-driven and task-intensive. Consequently, assessments are done in every studio class on a continuing basis, project by project, and at pre-determined stages during the semester.

The core of the Architecture and

Interior Design programs is comprised of the Design Studio courses. Design problems are given to students with a specific set of parameters and time frame. A series of progress benchmarks are established and the students are assessed as they complete those steps. A studio set-up allows for individual attention to each student and constant feedback from the instructor and other students as they work individually and in teams.

Other important areas of study include courses in graphic expression and representation, computer-aided technical drafting, history and theory, technical courses in construction materials, structures and environmental technology.

Building construction students learn to interpret construction working drawings to derive practical information necessary to initiate a construction job. Courses in cost estimating, financial and legal aspects, and building codes are also included.

The disciplines of architecture, construction and interior design have a long-established history. Many basic principles to these disciplines are as applicable today as they were in the past. Learning these principles and assimilating current professional practices demand discipline and hard work from the students.

In order to transfer to upper-division programs or to seek employment, students must produce a portfolio of work. This portfolio is made up of work from all four levels of design courses and some graphic courses as well. This way, the portfolio demonstrates not only the best work produced by the student, but also the progress made over two years, which shows the intellectual and creative development of the students. A specific portfolio class is offered, where students utilize state-of-the-art digital

photography and computer graphics to produce outstanding portfolios.

School of Allied Health Technologies

The Medical Center Campus is committed to assisting qualified students interested in pursuing careers in the allied health professions. Allied Health professionals provide more than 60 percent of all health care administered in the United States. The School of Allied Health Technologies offers more than 20 challenging vocational, certificate and degree programs, such as respiratory therapy, opticianry, medical laboratory technology and health information management.

Programs in the School of Allied Health Technologies prepare students for employment in a wide variety of settings including hospitals, clinics, research centers, long term care facilities, physician's offices and wellness centers. In collaboration with more than 100 health care facilities throughout Miami-Dade County, students receive the necessary theory, laboratory experience and clinical practice. Students use stateof-the-art equipment and are supervised by licensed professional faculty. Allied Health programs are fully accredited through their respective state and national associations. Most programs have limited access. Program completion affords the graduate the opportunity to seek employment in high-demand professions while receiving a competitive salary. Interested students are encouraged to contact the Medical Center Campus at 305-237-4141 to receive current information regarding program requirements, application procedures and selection process for the specific Allied Health program of interest.

WWW.MDC.EDU

School of Aviation

The Eig-Watson School of Aviation is a collegewide program administered at the Homestead Campus. The School of Aviation is currently housed at three sites: one adjacent to Miami International Airport, one at the Kendall Tamiami Executive Airport and one at the Homestead Campus. Associate in Science degree programs are available in aviation administration, aviation maintenance management and professional pilot technology.

In addition, short-term certificate and continuing education training programs are offered in airline/aviation management, certified flight instructor, air cargo agent, passenger service agent and airport management.

The School of Aviation is proud of its comprehensive and substantive curriculum, qualified and certified instructional personnel, state-of-the-art labs and simulators and its close working partnership with the aviation industry.

School of Business

The School of Business offers a full range of academic and vocational programs to prepare students for careers in business, including the Associate in Science degree in Business Administration. This degree gears students toward transfers to four-year institutions. In addition to Associate in Arts and Associate in Science degrees, the School offers College Credit and Career Technical Education Certificate, as well as an Associate of Applied Science in Business. Course offerings are available in a wide number of disciplines, including accounting, business administration, economics, management, marketing, international trade, international business, real estate marketing, financial services, hospitality management and office systems technology.

The School of Business has a long tradition of partnering with industry to offer students cutting-edge instruction in various fields and in providing customized training to cover corporate needs. Current partners include the Center for Financial Training (formerly known as the American Institute of Banking – AIB), the Fannie Mae Mortgage Finance

Program and the General Motors Marketing Internship Program. Courses in the School of Business are offered at the Wolfson, Kendall, Homestead, North and InterAmerican campuses.

School of Computer and Engineering Technologies

The School of Computer and Engineering Technologies provides courses and programs designed to meet the work force needs of the information technology, telecommunications, and engineering fields. The primary objective is to produce a trained work force to meet the critical demands in the high technology marketplace of Florida's Internet Coast.

The school offers Associate in Arts and Associate in Science degrees, as well as College Credit and Career Technical Education Certificates. Among the programs offered are: Air Conditioning, Building Construction Management, Computer Programming and Database Development, Electronics/ Computer Repair, Engineering, Internet Technologies, Network Technologies, Telecommunications and others.

The School of Computer and Engineering Technologies courses at the Hialeah, Homestead, InterAmerican, Kendall, North, West and Wolfson campuses. The School is headquartered in The Emerging Technologies Center of the Americas (ETCOTA) on the Wolfson Campus. This dynamic state-of-the-art facility houses 19 hightech classrooms and labs, a 120-seat auditorium and offices for faculty and staff. ETCOTA has more than 400 highend computers and wireless Internet access throughout the facility. The latest in audio-visual equipment is installed in each classroom for maximum connectivity to the Internet. The facility provides every student with the best resources in technology education.

In addition, comparable equipment and facilities are available at the other campuses to permit students to complete courses at their convenience. The School's major partners in various technologies include: Microsoft, Oracle, Unigraphics, Dell, IBM and FPL. The School is a Cisco Regional Networking

Academy offering CCNA and CCNP classes on most campuses, and also provides instruction using official Microsoft curriculum. Furthermore, articulation agreements with prestigious four-year universities permit students to transfer credits for baccalaureate degrees.

School of Community Education

The School of Community Education's mission is to make the College more accessible to the public and to meet community needs not served by traditional college programs. Through the Community Education departments located on each campus, the school offers non-credit courses in recreational, continuing workforce education and adult education categories. Recreational courses cover a huge range of topics from aerobics to Zen, and they serve individuals wanting to enrich their cultural experiences, pursue interests, or learn alongside others with similar interests.

Continuing workforce education courses are just-in-time courses intended to help students improve their professional or occupational skills. The topics covered include computer workshops, certification courses, preparing oral presentations, building contractor license exam preparation, as well as several hundred work-related topics. Adult education courses prepare the student to pass the GED test or master the basic skills needed for success in one of the College's accredited programs.

The School of Community Education endeavors to provide classes both on and off campus. The majority of classes are conducted in the evenings and on weekends at times that are most convenient to the students enrolling. In its effort to meet the diverse needs of a large, multifaceted community, the school also welcomes suggestions and requests for courses that are not being offered.

School of Education

Teaching is a vital and dynamic profession. A career in teaching offers the opportunity to influence children and shape the future. Trends in population growth, an aging teacher workforce and the demand for class size reduction

will result in an estimated two million new teaching positions in the United States by the year 2010, and there will be ample professional opportunities for those who want to teach.

The School of Education provides education and professional development opportunities for pre-service teachers and for practicing professionals. Through our affordable and accessible programs, students are able to connect with a dynamic faculty. This faculty is dedicated to stimulating aspiring teachers to develop the knowledge, skills and disposition necessary to become excellent educators.

The school offers a wide variety of programs. Students may earn an Associate in Arts or Associate in Science degree in elementary, secondary and early child-hood education. Students may complete a Bachelor of Science degree in ESE, secondary math or secondary science.

The School provides courses that meet state certification and recertification requirements. Courses leading to the Development Associate Equivalency Certificate and the Child Care and Education Program Administrator credential are available as well. Students who complete the A.A. degree program may transfer to state university colleges of education with junior-level standing. Most private institutions will grant A.A. degree-holders the same status. The A.S. degree will prepare students for immediate employment as early child care and education professionals, paraprofessionals or substitute teachers in both the public school system or private school

The School of Education offers four-year baccalaureate degrees in Education. The baccalaureate degree may be earned in the following specialties:

- Exceptional Student Education (kindergarten 12th grade)
- Secondary Mathematics Education (middle and high school)
- Secondary Science Education (middle and high school)

The baccalaureate programs in education are designed to prepare future teachers to enter the teaching profession immediately after graduation. Students are well prepared to meet all the requirements of the Florida Department of Education including the successful com-

pletion of the certification exams and a semester-long internship in a school setting. Professional development workshops also are provided.

Additionally, individuals with bachelor's or higher degrees in other fields are able to earn teacher certification through our Educator Preparation Institute. Miami Dade College's School of Education, in partnership with Miami-Dade County Public Schools provides the Substitute Teacher Training Certificate Program to support high quality instructors in every classroom. Effective curriculum, dynamic faculty, a supportive and caring administration and support services are in place to ensure success.

School of Entertainment & Design Technology

The School of Entertainment & Design Technology's (SEDT) mission is to effectively inspire and efficiently train students to lead the next generation of high-tech media producers. As creative and successful alumni, graduates will provide the entertainment industry with a highly trained workforce. Bringing dreams to life through high-tech digital training, the School of Entertainment and Design Technology emphasizes "real world" instruction in the cutting-edge technologies driving the film, television, radio, graphic design, printing and graphic arts, Web design, photography, computer animation, theater, sound recording and music industries.

As a workforce development program, the SEDT is focused on providing those skills/experiences necessary for students to obtain entry-level and advanced technical jobs in the entertainment, design and photography industries. The school additionally serves those in the community who are currently employed in the industry and desire experiences that will upgrade/enhance their skills. The School of Entertainment & Design Technology at Miami Dade College is a cluster of arts, design and media production programs taught on four campuses and one outreach center. The school currently offers programs in the study of:

- Film Production
- Television & Video Production

- · Computer Animation
- · Music Business Management
- Radio Production
- · Commercial Music Performance
- · Music Production and Sound
- Engineering
- Theatre and Entertainment
- Production
- Graphic Design
- · Graphic Arts
- · Internet Graphic Design
- · Photography Technology

Miami Dade College created programs of study as the use of new technologies increased. These support occupational growth within the entertainment industry.

The television, radio and sound engineering programs were created in the early 1970s, with the film production program subsequently established in the early 1990s. Most of the subjects taught were founded within the past five years in response to increased industry reliance on digital technologies.

The recent renovations of the teaching facilities and labs at the College's North, Kendall and Homestead campuses offer students state-of-the-art, industry-specific learning environments. These include a lecture and performance hall, a sound and lighting stage, television studio, recording studio, film and video editing post-production suite, administration/student advisement suite and a 24-hour, seven-day-a-week cable broadcast facility.

Filmmaking

Lights ... Camera ... Action ... South Florida has become a hotbed for independent filmmakers and music video producers. Students may learn what it takes to become a successful film producer, director, writer, cinematographer, manager, editor and production crew member while earning an Associate in Science (A.S.) degree in film production technology. Students begin handling equipment early in their academic pursuit, and learn to shoot film, digital tape, and edit projects on AVID, and Final Cut Pro non-linear systems. Students write their own scripts and see these come alive on the "silver screen." MDC's Filmmaking curriculum is the most comprehensive program available in South Florida.

Television and Video Production

The job market in South Florida is exploding for experts in the television and video production industry. Students can earn an Associate in Science (A.S.) degree or Career Technical Education (CTE) in television and video production technology at MDC. Students learn what it takes to be a camera operator, floor manager, production assistant, director, technical director, graphics operator, videotape operator and audio engineer in a fully-functional, state-ofthe-art television studio (complete with a digital Grass Valley switcher). On field shoots, students use cameras equipped with DVC Pro, BetaCam SP and other broadcast quality tape formats. Students can edit their videos at one of the 5-plus stations that feature the Avid Media Composer, Avid Xpress DV, Final Cut Pro and Media 100 non-linear editing systems. Through the dedicated instruction of highly-trained broadcast professionals, students exchange their spectator status for integral roles in television and video production.

Computer Animation

People everywhere talk about the "cool" effects seen in movies, TV shows and commercials. Animation has gone high-tech and is taking the country by storm. The School of Entertainment Technologies offers an Associate in Arts (A.A.) degree in computer animation that prepares students for exciting careers in game design and development, special effects in feature films and product design and visualization. Computer animation students learn to use MAYA, the state-of-the-art 3D animation software. MAYA was instrumental in creating such feature films as Lord of the Rings, Final Fantasy, Stuart Little and Ice Age. Training in the MAYA Complete 3D animation software includes animation, 3D modeling, rendering and dynamics (special effects). Until now, an education in MAYA was only available in private institutions and four-year universities. Students can get animated and jump into the 21st century with a degree in computer animation at MDC.

Music Business & Commercial Music

An Associate in Science degree in music business prepares students for a wide variety of careers in the music/ entertainment industry. Careers such as artist management, business management, retail sales, field merchandiser, producer, marketing, copyright administration, venue management, music publisher, tour coordinator, consumer researcher, advertising account executive, road manager, concert promoter, music publisher and contractor are all attainable upon graduation. Students who are business/management-oriented can specialize in the business/management option within the program. The creative performance option is for students with a strong background in performing, composing or arranging; the program helps students enhance their career possibilities by gaining practical business knowledge. Students with a love for the recording sciences and who have interests in technical, hands-on activities, often choose the "Creative/ Production" option.

School of Fire and Environmental Sciences

The School of Fire and Environmental Sciences provides educational and training opportunities in many vital fields related to fire prevention and suppression, as well as to a variety of environmental issues. The school trains individuals to meet the exacting standards of the federal, state and local agencies responsible for the regulations of both fields of study.

In addition to the Associate in Science degree in fire science technology, the Fire Science program prepares students for a variety of technical positions in the area of fire prevention and control. The program exceeds the Florida requirements for firefighter certification, as well as those of federal and state agencies (including the U.S. Coast Guard).

Students completing the Associate in Science degree in fire science technology can obtain work in fire departments, state and local agencies and the maritime industry, as well as in many other areas of the work force.

Students completing one of the **Environmental Science program options** can select either an Associate in Arts degree in environmental studies or an Associate in Science degree in environmental science technology. Students are trained in proper chemical and hazardous management, pollution control, conservation ecology and watershed management. Those who complete the program will find positions in federal, state and local agencies. Opportunities also exist in the variety of industries impacting the overall quality of our environment (e.g. private industries using or producing chemicals and potentially creating pollution).

School of Justice

The School of Justice, located on the North Campus, is a cooperative project between federal, state, county and local government agencies and Miami Dade College. The mission of the Miami Dade College School of Justice is to offer valuable academic programs to degree-seeking students and provide high quality workforce education to public safety professionals.

The School of Justice academic programs are:

- · A.A. in Criminal Justice Administration
- A.S. in Criminal Justice Technology Generic
- A.S. in Criminal Justice Technology Law Enforcement
- A.S. in Criminal Justice Technology Corrections
- BAS with a major in public safety management

The A.A. in Criminal Justice Administration is a transferable degree. It prepares students for upper-division studies, such as transfer into the Bachelor of Applied Science Program. Students wishing to attend law school find this degree an important first step toward achieving their goal.

The A.S. degrees in criminal justice technology are for those students who wish to continue their education following completion of one of the basic training academies.

The BAS is a workforce education degree that combines rigorous academic training with hands-on, practical experience. It is a 120-credit-hour program incorporating lower- and upper-division

coursework, including the required 45 credit hours of general education requirements and electives, 30 credit hours of lower-division requirements, 30 credit hours of upper-division requirements, and 15 credit hours in one of ten tracks. Qualified students choosing to enter either the Basic Law Enforcement Academy or Basic Corrections Academy spend the last semester of their fouryear program in one of our basic recruit training programs. Students completing either academy track will find that in four years they have earned a BAS are eligible to sit for the State Officer Certification Exam in either law enforcement or corrections.

The School of Justice workforce education programs are designed to develop and/or improve the knowledge, skills and abilities of public safety officers and individuals who aspire to hold positions in public safety including law enforcement officer, corrections officer, public service aide, and private sector security officers.

Basic Recruit Training: The School of Justice offers Basic Recruit Training Programs (BRTP) in the areas of law enforcement, corrections and public service aide. Students who successfully complete one of the BRTP in

Law Enforcement or Corrections, and who pass the State Officer Certification Exam, are eligible to receive up to 34 credits toward an A.S. degree in criminal justice technology. Credit conversion occurs in two separate phases.

Private Sector Security Training: Private sector training is provided to those who seek D (Security Officer), G (Statewide Firearm) and E (Recovery Agent) class licensing.

School of Nursing

The School of Nursing offers a Bachelor of Science in Nursing (BSN) degree to provide students and practicing nurses with a high-quality, accessible, cost-effective and seamless academic program designed to meet the critical workforce need for baccalaureate-prepared nurses in the state of Florida.

Two A.S. degrees and two Career Technical Education programs are also offered. The largest program is the Associate in Science degree in Nursing, leading to eligibility to apply for the licensing examination for registered nurse practice (NCLEX-RN). Three options are designed to meet the needs of individual learners (generic, transi-

tional bridge and accelerated and parttime tracks) and all combine class work with clinical nursing experiences in local hospitals and agencies. The second A.S. degree is midwifery. This program prepares graduates to apply to take the state licensure examination to become licensed midwives. Licensed midwives provide independent, comprehensive maternity care to low-risk clients. Students entering either of these associate degree programs should possess college-level cognitive, communication and computational skills. Specific general education and science courses are included in the curriculum; selected courses are required before admission to these healthcare programs.

Two Career Technical Education programs can be completed in one year. The Practical Nursing program leads to eligibility to sit for licensure as an LPN (NCLEX-PN). Practical nurses provide direct care to patients under the supervision of a registered nurse or licensed physician. The Medical Assisting program provides graduates with the skills and knowledge to work in ambulatory settings in the front office, in clinical laboratories or to provide treatments under the supervision of the physician.



102 WWW.MDC.EDU

Special Academic and Other Programs

n meeting its commitment to serve the community, Miami Dade College offers a variety of programs, both on and off campus, to meet the specific educational needs of the groups involved. These may take the form of specially structured programs on campus, courses, seminars or workshops offered at times and locations that best serve public interests and needs.

For example, MDC offers:

- 1. Assistance to companies and governmental agencies in conjunction with their own training programs;
- 2. Workshops, seminars and institutes in cooperation with business, professional or other groups;
- 3. Recreation, personal improvement and cultural activities;
- $4.\ \ Postsecondary\ occupational\ career\ of ferings\ to\ serve\ business, industry, the\ professions\ and\ governmental\ agencies.$

Apprenticeship Programs

The College provides apprentice-ship training programs in partnership with state-registered and approved Apprenticeship Sponsor Agencies. These programs provide classroom instruction and on-the-job training for employees of Apprenticeship Sponsor Agency companies. Currently approved apprenticeship programs prepare successful graduates to work as journeymen in the areas of electrical, fire sprinkler, heating, ventilation, air conditioning, plumbing and sheet metal.

Center for Economic Education

(Wolfson Campus)

The mission of the Center for Economic Education is to work closely with the educational communities in Miami-Dade and Monroe counties to develop greater awareness for economic literacy. Among the most popular of the Center's programs are the four recertification credit courses offered to area teachers in grades K-12. Of these, the national Stock Market Game is played in grades 5-12 in each of the major semesters. The Free Enterprise Bank Program, available to grades K-12, provides real money for class business activities. The center works with area educational administrators to create and assist in the development of curriculum materials. These materials have included a tourism and development program, a Civics Teachers Resource Guide, Elementary Program of the Economics of the Stanford Achievement Test and many more program examples at each of the major grade levels.

It is the center's goal to provide the latest and best materials and programs in economic education to our schools. Through these opportunities the Center seeks to promote greater understanding on the part of our young people about the economy in which they live and the economic climate in which they will work.

Centers of Electronics Emphasis and Electronics Specialization

(North Campus)

The Center of Electronics Emphasis program is a partnership program developed by the Florida High Technology and Industry Council, the Florida Legislature, the Division of Vocational, Adult, and Community Education, the Division of Community Colleges and the private electronics industry. The purpose of this program is to promote a climate of excellence in education, assure a supply of quality teachers, strengthen educational partnerships and prepare students for competitive careers through state-of-the-art training using modern industry guidelines.

The primary objective of the Center of Electronic Emphasis is to ensure that all centers with this title designation have the seven CORE classes in basic electronics, thus ensuring consistency of information transfer. The Center of Electronics Specialization has the mandate of instruction in the areas of microcomputer service and maintenance.

Center of Excellence in High Technology/ Electronics

(North Campus)

The Center of Excellence in High Technology/Electronics at the North Campus is an interdisciplinary program that presently incorporates the departments of engineering and architecture. The center has programs in computers and computer-assisted drafting. Courses are run in different formats depending on need

Center for Financial Training

(Wolfson Campus)

The South Florida Center for Financial Training (SFCFT) is a local training provider of the American Bankers Association (ABA). As the largest industry-sponsored adult education program in the world for financial services professionals, SFCFT benefits more than 3,500 financial services professionals locally and is one of 30 centers located throughout the United States and Puerto Rico.

SFCFT is a unique source for commercial banking and financial industry training and education. SFCFT is a nonprofit educational organization which conducts college credit courses (live classes, guided self-study and online), seminars, computer workshops, and customized and contract training.

Students can earn SFCFT and/ or Academy of International Banking (AIB) diplomas and certificates which are recognized throughout the industry

and accepted as college credit. Students can also earn Banking College Credit Certificates. SFCFT has established an academic partnership with Miami Dade College, enabling SFCFT students to achieve degree status while completing their financial services studies. SFCFT courses are offered at all MDC campuses, community schools and at certain financial institutions. All courses are open to the public, however, special fees are charged by SFCFT for certification and materials. The fee structure varies depending on whether the student is a member or non-member of SFCFT. The fee is charged in addition to MDC tuition and is paid to SFCFT.

Community Education

Community Education is committed to the philosophy that learning is a lifetime process and that the many years spent in formal education do not complete our learning experience. This philosophy values the knowledge we acquire daily, that which we use for the rest of our lives, as the foundation of our learning experience. This philosophy serves as the foundation of our learning experience and values the knowledge we acquire daily and use for the rest of our lives.

Campuses offer recreation and leisure courses and activities for those who wish to enrich their cultural lives or improve their personal efficiency and professional skills. No record of previous education is necessary and little or no homework is required. No grades are given through Community Education, no academic credit gained and attendance standards are voluntary.

Continuing Workforce Education training courses are offered to improve employment-related skills for post-licensing and for professional licensing. Training is listed on a student's transcript. The transcript can be used in lieu of continuing education units (CEU) to show evidence of participation in professional development to employers, and licensing or certification agencies (see below). For additional information, contact the campus Community Education department.

The Adult Education program offers students the opportunity to learn basic skills to earn a GED or to pursue further training through the College's vocational programs.

The College offers courses both on and off campus to meet the needs of the community, and makes every effort to begin a course when an adequate number of people request it.

Computer Institute

The Computer Institute (CI) meets the computer-related training needs of business, labor and industry. Courses are offered both on-campus and at on-site training locations. The CI offers a comprehensive program that includes classes in most of the commonly used software packages. Classes are available to all age groups, including senior citizens. During the summer, a comprehensive Kids/Teen Program is offered. A limited schedule of classes is available in Spanish. The CI offers state-of-the-art computers and software, small class sizes in a workshop format (a hands-on environment), a competitive fee structure and quality instruction from industry professionals.

Continuing Education Units (CEU)

Miami Dade provides students with the opportunity to obtain continuing education units (CEUs) for certain noncredit courses. The CEU program encourages long-range education goals and lifelong learning, and permits adult students to aggregate a number of continuing education courses to meet their personal needs.

The CEU is used as the basic means for recognizing an individual's participation in, and for recording an institution's offering of continuing workforce education courses. A CEU is defined as 10 contact hours of participation in an organized, continuing education experience under responsible sponsorship, capable direction and qualified instruction. Transcripts indicating completion of continuing workforce education courses designated for CEU's will be provided.

Contract Training for Business and Industry

Through the School of Community Education, business, industry and gov-

ernment can benefit from workshops and courses offered at the job site or at any of our campuses. These contract training programs are designed to meet the educational and training needs of community businesses and organizations by reaching beyond traditional academic curriculum and offering courses and workshops which focus on practical application. Offered in credit and noncredit formats, these programs are available at times and locations convenient to the participants.

Program topics include computers, management, customer service, communications, foreign languages and English as a Second Language, business English, writing and math and many others. All programs may be customized to the specific needs of the client, with job-related materials included in the curriculum.

Cooperative Education

Cooperative Education provides an opportunity for students to obtain career-related work experience and academic credit for such work. It enables students to apply classroom theory to actual work situations. In many instances, it helps students earn needed cash to meet education costs. It gives students work experience that employers look for and it may turn into permanent employment.

Job opportunities are available in many career fields. Transfer students may continue their Cooperative Education program at many four-year colleges and universities. While enrolled at MDC, this work experience may be part time or full time, paid or voluntary, and may continue for one or two terms. The program is flexible and tailored to meet student and employer needs. The volunteer plan provides for one term of six hours or more per week for 12 weeks minimum, and for 10 hours or more per week for 12 weeks during a second term.

Through Cooperative Education, students may earn three elective credits per term for two terms. Application for the program should be made to the Cooperative Education liaison at each campus discipline. A minimum GPA of 2.0 is required.



Environmental Center

(Kendall Campus)

The Environmental Center provides non-credit courses to children and adult community members and to our work force. Enrollment is open to everyone, and there are no prior education levels, transcripts or tests required. Most classes meet weekends or evenings and are scheduled on and off campus for convenient access. The center has many programs:

- 1. Landscape/gardening/home Improvement courses encourage the public to utilize environmentally appropriate landscape materials and to maintain their home and landscape in ways that minimize environmental impact. Short-term training certification preparation and opportunities to participate in segments of credit courses improve the skill of landscape professionals.
- 2. Hands-on, interactive environmental education field trip programs are available for school groups Kindergartengrade 9.
- 3. Nature-based teacher planning day/ holiday camps serve the needs of working parents while sensitizing children in pre-kindergarten through seventh grade to the natural world. Children participate in nature games, crafts, outdoor activities and cooperative games.
- 4. Scout Days provide Boy and Girl Scout groups opportunities to participate in nature-based activities designed to meet badge requirements as well as to implement Eagle Scout and Gold Award projects.

Field trips, day camps and scout days are held at our Environmental Center, which includes a pine rockland, a lake, a floating dock, chickee huts, butterfly gardens, a butterfly house, organic vegetable sand gardens, a composting demonstration exhibit, and an Everglades waterflow demonstration exhibit.

The center also offers courses on the use of natural/alternative healing methods, skills for life change, and courses in non-traditional spirituality. Initiatives included Native American cultural programs, expanded pine rockland research, development of community service project opportunities for high school students, weekend recreational and educational programs for adults and

Earth Ethics Institute

(Collegewide; Located on the Wolfson Campus)

Earth Ethics Institute (EEI) is an Earth Literacy resource center at Miami Dade College (MDC) serving administrators, faculty, staff and students as well as the greater South Florida community.

The mission of the Earth Ethics Institute is to foster Earth literacy in the course objectives of each discipline throughout Miami Dade College as well as in the South Florida community and the extended Earth community beyond. Earth literacy includes an understanding of cosmology and ecological principles as the basis for sustainable living. The cosmological context is the story of the universe, as contemporary science describes the developmental process out of which Earth and all life emerge.

EEI Programs for Faculty and Staff

GREEN STUDIES

Earth Ethics Institute grew out of two earlier Miami Dade College programs, Life Lab and the Environmental Demonstration Center. It now offers a series of professional development workshops and programs for Miami Dade College administrators, faculty and staff interested in infusing ecological concepts and a cosmological context into their professions. Through Earth Literacy, one deepens his or her understanding of the inter-dependent human-Earth relationship and thus broadens the sense of responsibility inherent in the practice of every profession and vocation. Hundreds of MDC faculty and staff have participated in EEI workshops, featuring topics such as greening the curriculum, biophilia, culture and cosmology, ethics, technology and sustainability, and regenerative, interactive and sustainable design. MDC administrators, faculty and staff are also invited to participate in immersion field trips to explore the unique ecology and hydrology of South Florida. The Institute also collaborates with Genesis Farm in New Jersey, Narrow Ridge Earth Literacy Center in Tennessee and St. Thomas University in Miami in offering courses in Earth Literacy.

EEI Programs for Students **IDS 1920 EARTH LITERACY** COLLOQUIUM AND EARTH FELLOWSHIP PROGRAM

Earth Ethics Institute encourages students to develop an understanding of Earth Literacy. The IDS 1920 Earth Literacy Colloquium is an interdisciplinary credit course with an environmental ethics and cosmological overview. The Colloquium meets weekly and includes discussions of ecological issues, current films on pertinent contemporary issues, vegan food preparation, an introduction to organic gardening and community supported agriculture, and immersion field trips. In addition, EEI sponsors an Earth Fellowship program, a non-credit opportunity to address Earth Literacy and employ activism in the community.

LAW DEGREE WITH AN **ENVIRONMENTAL SPECIALTY**

EEI and MDC have a special relationship with St. Thomas University (STU) to offer students an opportunity to earn a law degree with an environmental specialty in six years instead of seven. MDC students participating in this special program earn an Associate in Arts degree at MDC (two years), transfer to STU in the third year and take courses directly relevant to the practice of environmental law and administration (one year). The curriculum's fourth year is the required first-year program of the STU School of Law as well as the fourthyear of studies resulting in a B.A. degree in environmental justice. For students accepted into the law school, the curriculum of the fifth and sixth years addresses legal areas of direct relevance to the practice of environmental law and prepares students for the Florida Bar Examination (three years).

EARTH ETHICS INSTITUTE CHALLENGE GRANTS

Every year, Earth Ethics Institute sponsors several discipline-specific challenge grants for MDC students and awards certificates and cash prizes for innovative entries. Participants are asked to explore sustainable and regenerative ecological themes related to the specific disciplines. Two challenge grants are

reoccurring: The Betsy Hilbert Writing Challenge and the Earth Ethics Institute Photography Challenge. Challenge grants are often offered to students studying architecture and interior design as well.

EEI Programs for the South Florida Community

The Earth Ethics Institute is a participating member in the Environmental Education Providers of Miami-Dade County and partners with diverse national and local organizations to offer conferences and speakers on environmental issues of interest to our community. In addition, EEI sponsors organic gardens in area schools, parks and neighborhoods. Information about the Institute can be found at the Earth Ethics Institute Web site www.earthethicsinstitute.org.

The Florida Center for the Literary Arts

(Wolfson Campus)

Florida Center for the Literary Arts is a cultural and academic initiative that promotes the advancement and appreciation of the literary arts in all forms.

Housed at Wolfson Campus, the Center is a nexus for all the literary arts – from traditional to avant-garde – serving as a focal point for instruction, research, reading and creating. Year-round, the Center offers a lineup of programs for students and the community, including classes, workshops, forums, readings, celebrations and more.

The Center works with established and emerging writers from Florida and elsewhere. Through Center programs, they help Miami Dade College students, pupils in Miami-Dade County Public Schools and diverse members of the community deepen their understanding of literature and sharpen their creative writing abilities.

Creative Writing Workshops

Creative writing workshops offer writers in our community a chance to share their work with a supportive, yet critical community of writers whose goal is continual development. All workshops are noncredit and open to everyone in the community.

Each spring, the Center's Writer's Institute offers four days of intensive workshops on poetry, fiction, nonfiction, publishing and more. These are complemented by readings and festive gatherings.

Literacy Initiatives

The Center's literacy-based initiatives include One Book, One Community; One Picture Book, One Community; First

Readers; El Club de Lectores; and The Big Read, a nation-wide reading initiative funded by the National Endowment for the Arts in partnership with Arts Midwest and the Institute of Museum and Library Services. They encourage an appreciation for books with the goal of fostering dialogue in the community and enhancing the reading skills of children and adults.

Miami Book Fair International

Held each year in November for 25 years, Miami Book Fair International is the largest and finest event of its kind in the U.S. In addition to readings by more than 300 authors from all over the world and the sale of thousands of books in many languages, the Fair offers book-centered fun for children, the chance to explore the culture of many nations at the International Village, panel discussions and creative writing classes in English and Spanish.

Prometeo Theatre

The close relationship between theater and literature prompted the Center to embrace Prometeo, a Spanishlanguage theater program founded more than 35 years ago at Miami Dade College's Wolfson Campus with the mission of preserving the Spanish language and Hispanic culture through the the-



106

WWW.MDC.EDU

ater. Courses and workshops in acting, voice and speech, movement, acting for the camera, playwriting, singing and stagecraft are offered throughout the year. Prometeo also offers the two-year Professional Training Certificate in Theatre Arts, as well as classes for children and teens.

The Honors College

The Honors College is a collegewide community of student and faculty scholars who collaborate in an intellectually stimulating, enriching, challenging and supportive environment. Housed at Wolfson, North, Kendall and InterAmerican campuses, The Honors College provides an academically rich curriculum with special scholarship, and social and service opportunities. The Honors College encourages critical thinking and intellectual curiosity in an array of programs and disciplines. The InterAmerican Campus offers the Honors Dual Language Program which mirrors the rigorous curriculum of the other campuses. This program offers courses in English or Spanish for students who demonstrate mastery of both languages. Students study in small class settings and work closely with honors faculty. The Honors College expects its students to take advantage of the many enrichment opportunities provided. These include cultural and community activities, leadership development programs, internships, national tours, study abroad programs and colloquia.

Students receive personalized guidance in preparing applications for competitive scholarship awards and transfer admission to prestigious private and public universities. In addition, the Honors College offers exemplary models of learning, an impressive speakers series, discipline-specific honors seminars and student forums. Components of the program include:

- Merit scholarships for superior students, including the Honors College Fellows award for students who meet The Honors College eligibility criteria.
- Opportunities to attend an array of cultural events featuring the performing and visual arts.
- 3. Attendance and participation of stu-

- dents and faculty at the annual meetings of the National Collegiate Honors Council, as well as the Regional and Florida Collegiate Honors Council meetings.
- Transfer admission and scholarship opportunities by upper-division colleges and universities awarded to graduates of The Honors College.
- Membership in campus chapters of Phi Theta Kappa International Honor Society for students with a GPA of 3.5 or higher.
- Opportunities to participate in international study experiences and internships abroad.
- Recognition as a graduate of The Honors College at commencement and designation on transcript and diploma with 36 credits in honors courses and a 3.5 GPA or higher.
- 8. Internships and Service Learning opportunities provided in related fields of study.

Additionally, the Honors Dual Language program offers:

- 1. A global perspective in all classes
- 2. Proficiency in two languages
- 3. Requirement of a global experience as an exchange student or intern.

All of the activities associated with The Honors College are designed to inspire and challenge students in their studies and to provide support and encouragement in their quest for knowledge. Students should contact the Dean of The Honors College or the Honors Director on the corresponding campus for specific information. Students may also visit the Web site for additional information at www.mdc.edu/honorscollege.

Independent Studies

(Kendall Campus)

The Department of Independent studies offers an interdisciplinary academic program including more than 40 College credit courses in a broad array of disciplines. The program includes all general education core courses and a wide variety of distribution and elective classes. This program is particularly well-suited to students wanting flexible schedules, as it requires only a minimal number of campus visits. Courses offered in the Department of Independent Studies are ideal for motivated students who want to choose where and when to study;

who enjoy working at their own pace; who have good time management skills; who are unable to attend classes on a routine basis; and who are committed to their academic goals. Faculty dedicated to student success are available day, evening and weekend hours to provide individualized instruction and to extend Miami Dade College's resources beyond the campus. Students respond positively to the flexible, convenient and supportive environment.

Courses are available in the natural sciences, English composition and literature, humanities, business, management, history, social science, sociology, psychology and education. All courses offered mirror traditional classroomstyle courses in that they are instructor-led, feature specific start and end dates, require textbooks and provide the same levels of academic or professional credit. The department expands course offerings every term; students should consult the current term's class listing for the present schedule. Each course in Independent Studies establishes its own curricular procedures and suggested deadlines. In addition, all courses in this academic program include varied learning activities, timely feedback and the opportunity for accelerated completion.

Students should visit the Department of Independent Studies at Kendall Campus (online at www.mdc.edu/kendall/independent) for registration and course information. Students may also receive information from the advisement department of any MDC campus.

MEED Program

The Microcomputer Education for Employment of the Disabled (MEED) Program has served individuals with disabilities in Miami-Dade County with distinction for nearly 20 years. It has received national recognition as a leader in its field and has been a model for other programs throughout the country. MEED provides individuals with disabilities, representing all populations of the disabled community, with a selection of college certificate and degree programs to prepare for the 21st century workforce. The MEED approach includes a comprehensive, individualized career services program with resume prepara-

tion, mock interviews, job site visits, mentoring and internships in local businesses.

MEED offers motivated individuals the flexibility to pursue a variety of college-credentialed programs required to enter the fields of computers, business, medical services and travel/hospitality. MEED students can attend morning, evening and/or weekend classes at any of Miami Dade College's campuses.

In addition MEED students also receive career development training. They learn job-searching skills and receive individualized coaching throughout the job search process.

MEED students also enjoy the richness of the college experience uniquely available at Miami Dade College.

The length of the MEED training program depends on the student's ability to complete the program at his or her own pace. To contact a recruitment specialist in the MEED Program Office, students should call 305-237-3997.

New World School of the Arts

(Wolfson Campus)

New World School of the Arts is a comprehensive college program and full-time high school preparing students for professional careers in dance, music, theater and the visual arts. The program, created by the Florida Legislature in 1984 as a Center of Excellence in the Arts, is an educational partnership of the University of Florida, Miami Dade College and the Miami-Dade County Public Schools. Through its sponsoring institutions, New World School of the Arts awards the Bachelor of Music, Bachelor of Fine Arts degrees and Associate in Arts degrees, as well as high school diplomas. Students are admitted on the basis of talent and commitment as demonstrated through audition or portfolio presentation. The school is located at Wolfson Campus in downtownw Miami.

Outreach Program

The College endeavors to provide college credit and non-credit classes to residents of Miami-Dade County who find it more convenient to attend a neighborhood center than to travel to a campus. These courses are fully accredited and follow the same curriculum as on-campus courses. Classes are held in community schools, businesses, municipal agencies and other close-to-home locations. The smaller classes provide opportunities for increased interaction with instructors. Students who attend outreach classes also find a strong network of support from fellow classmates.

Reserve Officers Training Corps

Miami Dade College, in cooperation with the University of Miami and Florida International University, permits full-time students to enroll in Air Force ROTC (through the University of Miami) and Army ROTC (through Florida International University). Students must be Associate in Arts degree candidates with plans to complete a baccalaureate degree. An application for admission to the ROTC program, including eligibility information for new and currently enrolled students, may be obtained from the ROTC offices at the University of Miami or Florida International University. MDC credit is awarded for successful completion of ROTC courses. For further information, students should see "Military Science" in the Course Description section.

Servicemembers' Opportunity College

In 1972, a nationwide program sponsored by the U.S. Department of Defense and the American Association of Community Colleges designated MDC a servicemembers' opportunity college. The designation was awarded in recognition of the College's commitment to providing programs and special services to meet the unique educational needs of active-duty service personnel. The following services are offered:

- Academic assistance such as specialized counseling and tutorial service;
- Credit for courses obtained in the armed services and through the College Level Examination Program (CLEP):
- 3. Full waiver of out-of-state tuition;
- 4. Full transfer of credits awarded by

other accredited colleges and universities.

In addition, service personnel and their dependents may meet the College's graduation requirements by completing six credits of the last 30 credits applied to a degree at MDC.

Virtual College

The Virtual College, the College's Distance Education program, offers students an alternative way to attend MDC through its quality web-based courses. Students who may have schedule conflicts, personal situations that prevent campus-based attendance, or who are too far away to commute, will find that taking courses in the Virtual College is an excellent solution and opportunity. Our mission at the Virtual College is to ensure that students who enroll in our courses receive a quality online education that equals that of a traditional campus-based experience.

To be able to successfully complete courses in the Virtual College, students need access to a computer and the Internet and must have basic computer, Internet and word processing skills. Students are required to successfully complete the Virtual College Student Orientation. This orientation helps students evaluate whether they possess the knowledge and skills necessary for success in online courses; whether their computer system meets minimum hardware and software standards; and also explains requirements related to online courses, such as communications, participation, testing.

Each semester, the Virtual College's course offerings expand as more courses are developed, and these web-based courses contain many features that make learning enjoyable and effective. The Virtual College's learning community consists of students who are motivated and disciplined in their pursuit of knowledge, and faculty who are eager to teach and guide online learning. The interaction and sharing of knowledge in the online classroom promotes intellectual and professional growth. Frequent online communication is a major part of every Virtual College course. There are options for discussion forums, online chat sessions and e-mail; students can easily communicate with both their teachers and their virtual classmates. In each course, students find a syllabus, a class calendar, course content, activities and tests. The content is enriched with multimedia, glossary, self-tests, images, linked web resources, interactive exercises and more. Participation in the course is required from the first day of class.

To learn more about online education and to view course offerings, students should visit the Virtual College's website at virtual.mdc.edu. Before enrolling in a Virtual College course, a student may view the syllabus, contact the teacher with questions concerning the course, and learn what textbook and other instructional materials are required. MDC offers registration and other services online for Virtual College students.

Weekend College

Weekend College is designed for students unable to attend either weekday or evening classes, but it is not restricted to these individuals; students wishing to complement their schedules with additional courses are encouraged to enroll. Classes are scheduled on Friday evenings, and on Saturday and Sunday in morning or afternoon blocks. Weekend College offers a selection of core, distribution and elective credit courses to

satisfy degree requirements in A.S., A.A., and Certificate programs.

Wellness Center

(North, Kendall and Wolfson Campuses)

The College has several wellness centers, located on the North, Kendall and Wolfson campuses. These programs are designed to meet the wellness needs of faculty/staff, students and the community. The centers have the capability to perform a complete health/fitness assessment, including sub-maximal cardiovascular, blood pressure measurement, body composition, muscular strength and flexibility. Each center also has a variety of cardiovascular and strength training equipment as well as an array of free-weights.

W.L. Philbrick School of Funeral Service Education

(North Campus)

The W.L. Philbrick School of Funeral Service Education was the first public community college program in the southeastern United States to offer a degree in mortuary science. The school has a full range of mortuary laboratories enabling students to do all training on campus. More than 100 bodies are embalmed and cosmetically prepared in the campus laboratories each academic year. An oncampus chapel gives students a unique opportunity to work on all aspects of funeral preparation, including embalming, dressing and casketing bodies for viewing and final services. The school is accredited by the American Board of Funeral Service Education Inc. (ABFSE), 3432 Ashland Ave., Suite U, St. Joseph, MO 64506 (phone: 816-233-3747). The ABFSE requires that all students earning degrees from ABFSE-accredited programs pass the National Board Exam of the International Conference of Funeral Service Examining Boards Inc. Passing both sections (arts and sciences) of the National Board Exam with a grade of 75 or higher is a requirement for graduation in the W.L. Philbrick School of Funeral Service Education. (The annual passage rate of first-time takers for the most recent three-year period for all ABFSE-accredited funeral service education programs is posted at www.abfse. org.) Funeral service graduates from MDC are qualified to practice in most states provided they have met the state of choice requirements for licensure. For further information on this challenging field of study, students may contact



the W.L. Philbrick School of Funeral Service Education at 305-237-1245 or via e-mail at rcovert@mdc.edu. The school provides continuing education required for license renewal of Florida funeral directors, embalmers, and direct disposer licenses, and it conducts special seminars for the enrichment of funeral services personnel.

Study Abroad Programs

Miami Dade College is one of the leading institutions of the College Consortium for International Studies (CCIS). As a CCIS sponsoring member institution, the College is responsible for semester and summer programs in France and Costa Rica. A cooperative consortium arrangement affords reciprocal access for MDC students to take college credit programs in additional countries sponsored by other member institutions. The CCIS is a nationwide partnership of more than 160 membership colleges and universities, including two and four year, public and private. This partnership offers American undergraduates a choice of more than 70 study- abroad programs in more than 30 countries. CCIS semester programs are available in the following countries, many of which also offer summer programs:

- 1. Argentina (Buenos Aires)
- 2. Australia
- 3. Bulgaria
- 4. Canada
- 5. China (Nanjing and Shanghai)
- 6. Costa Rica (Santa Ana and San José)
- 7. Czech Republic (Prague)
- 8. Denmark
- 9. Dominican Republic
- 10.Ecuador
- 11.England (London and Lancashire)
- 12.France (Aix-en-Provence, Nice,

Annecy, Chambéry, Angers, Paris)

- 13. Germany (Berlin, Heidelberg)
- 14.Ghana
- 15.Greece
- 16.India
- 17.Ireland (Maynooth, Limerick,
- Gaiway) 18.Italy
- 19.Japan
- 20.Mexico
- 21.Morocco
- 22.New Zealand
- 23.Peru

24.Portugal

25.Russia

26.Scotland

27.Spain

28.Switzerland

Miami Dade College also offers faculty-led short-term study abroad programs, such as European Architecture, Economic Effects of Scientific Discoveries, Medical Immersion program in the Dominican Republic, and Study Abroad in Seville. Participation is not automatic. Students must apply through the MDC Office of International Education located at the Wolfson Campus. Most programs require a minimum 2.5 GPA. No previous study or knowledge of a foreign language is required for most programs. If a student is eligible for financial aid, this aid may be used for study abroad. After acceptance to a program, the restricted registration for courses abroad is completed with the assistance and authorization of the Office of International Education (Campus Code 285). Most programs offer a "homestay" option (living with a local family or individual) which accelerates foreign language acquisition and provides in-depth knowledge of the host culture. Course content is usually country-based and many courses are fully compatible with the MDC curriculum. Course descriptions and information on the classes offered in each program are detailed during the application process. For more information about the study abroad programs, please visit www.mdc. edu/mdcglobal

Time-Saving Degree Opportunities

Miami Dade College encourages students to accelerate their education by providing time-saving programs to shorten the time necessary to complete an Associate degree. The articulated acceleration mechanism includes dual enrollment, early admission, advanced placement, credit by examination and the International Baccalaureate Program among others. These accelerated options can save a student valuable time and money because they provide an alternative way of earning credit at MDC and the opportunity to earn a degree more quickly.

Dual Enrollment and Early Admission

(See Special Admissions Categories, page 16)

The Dual Enrollment program allows high school students (or home education students) to simultaneously earn college credit and credit toward a high school diploma. The college credit may be applied toward a postsecondary diploma, or a certificate or degree at a Florida public institution. The Dual Enrollment program is an opportunity to take challenging courses and accelerate education opportunities. Students who successfully complete dual enrollment courses will save time in obtaining their college degree, and save money as well, because these students are exempt from the payment of registration, tuition and laboratory fees.

To enroll in courses through the dual enrollment program, students must demonstrate readiness for college-level coursework. Eligibility criteria take both GPA and passing the appropriate sections of the college placement test into consideration. The high school must grant permission for the student to enroll in these courses, thereby agreeing to accept these college courses to meet high school graduation requirements.

Early admission is a form of dual enrollment through which eligible high school students enroll at the college on a full-time basis. The courses these students take are creditable toward a high school diploma and the certificate or associate degree. Students selected for Early admission or dual enrollment may begin their studies in any term, provided that they complete the regular admission, advisement, and registration procedures and receive permission from their high school.

Alternative Ways of Earning Credit Through Standardized Examinations

- Advanced Placement (AP)
- Cambridge Advanced International Certificate of Education Examination (AICE)

- Certified Professional Secretary (CPS) Examination
- College Level Examination Program (CLEP)
- DANTES Subject Standardized Tests (DSSTs) Program
- Excelsior College Examinations Program (formerly Regents or ACT-PFP)
- International Baccalaureate (IB)

Miami Dade College awards college credit for standardized examinations that document the required knowledge and competencies for one or more subject areas. Evaluations of examinations are made after the student has been admitted to the College. Official score reports must be sent directly from the testing agencies to the College's Transcript Evaluation Office. Awarded credit based on the College's approved course equivalents will appear on the student's permanent record and on the student's official College transcript as earned credit only. There will be no indication of grades or quality points and duplicate credit is not awarded. For additional information on standardized test scores and course equivalencies, students should visit Florida's official online advisement Web site at www.facts.org (by clicking on Advising Manuals, then on AAC Credit-by-Exam Guidelines). Questions may also be answered from MDC's Web site at http://www.mdc.edu/testing_information (by clicking on Other Testing Information, then Acceleration Options).

Institutional Credit-by-Examination

Students who have been admitted to the College may receive credit for



courses through departmental examinations. Applications for this type of credit are available from the Registrar's Office and must be approved first by the appropriate academic department. Subsequently, the registration must be completed at the Registrar's Office and fees need to be paid by each term's published deadline. Credits for departmental examination are not included in any computation of credit load for full-time or part-time student status. Institutional credit-by-examination will become a part of the student's permanent record at the conclusion of the term in which it is awarded. Grades of A, B, C or D will be assigned for college credits earned by examination and will be computed in the student's GPA. A nonrefundable fee of \$15 per credit will be charged for each examination administered.

Credit for Specialized Training

College credit for specialized non-collegiate occupational training may be granted to students enrolled in occupational programs. This credit is granted upon validation of the non-collegiate instruction by the appropriate academic department. A processing fee of \$15 per course, up to a maximum of \$50 for any single application, will be charged for the evaluation of non-collegiate instruction. Agreements to recognize specialized non-collegiate occupational training must have been previously approved in accordance with College curriculum procedures.

Certified Professional Secretary (CPS)

Students passing the complete national examination of the Certified Professional Secretary Examination (CPS) and the CPS Exam Prep courses may be granted credit toward an Office Administration Associate in Science degree at Miami Dade after official score reports are received from the International Association of Administrative Professionals (IAAP). The credit will appear on the student's permanent record as earned credit only, without any indication of grades.

Military Service Schools, Defense Activity for Non-Traditional Education Support (DANTES) and United States Armed Forces Institute (USAFI)

Miami Dade College will grant credit toward an Associate degree for properly validated military service training. This includes military service schools, the United States Armed Forces Institute (USAFI) and Defense Activity for Non-Traditional Education Support (DANTES) end-of-course examinations, as well as acceptable College Level Examination Program (CLEP) test scores. The recommendation of the American Council on Education, a guide to the evaluation of education experiences in the armed services, is used in evaluating military service school training. Active duty military personnel must submit DD Form 295 and the Miami Dade military service school training record form. USAFI and DANTES college-level credit courses taken by correspondence, or by extension through other accredited colleges, are accepted under regular transfer credit provisions. Official Reports of Educational Achievement must be mailed directly to the College Admissions Department from each approved organization.

College credit earned through military service schools, USAFI, or DANTES college level end of course tests, will appear on the student's permanent record as earned credit only, without any indication of grades or quality points. Transfer credit evaluations of this work are made after the student has been admitted to the College. Veterans must submit a true copy of the service personnel's separation papers (DD Form 214) and the Miami Dade military service school training record form to the Admissions Office.

Veterans who have earned credit through USAFI or DANTES should request transcripts from Educational Testing Service. Prospective students may contact: Representative for DANTES, P.O. Box 6604, Princeton, New Jersey 08541.

Special Information

Computer Services

Miami Dade College provides students and faculty with a state-of-theart computing and telecommunication infrastructure. The College's campuses and centers are interconnected by a dual and diverse high-speed OC 12 (622 megabits per second) fiber network backbone supporting voice, video and data. The network currently has 22,500 ports, with more than 15,400 in active status. It provides 50 megabits per second bandwidth connection to the Internet from diverse sites using two service providers. Wireless connectivity for mobile computing is available in campus libraries, conference centers and other instructional and meeting locations. Classroom and desktop access to video-on-demand is available in a growing number of locations across the

The College also offers a wide variety of Web-based services, including student portal access to admissions, orientation, registration, advising, financial aid, transcript requests, term grades and credit card payments. Furthermore, the services offer up-to-the-minute course listings and academic program information. Classes are available in online and distributed modes to provide students with a variety of ways to complete their course of study. Extensive computing facilities at each College location provide support for Collegewide technology-enabled curriculums.

The Data Center is located in Jack Kassewitz Hall at Kendall Campus. It hosts an IBM ES9672-Y46 mainframe with 8 gigabytes of main memory and 1.5 terabytes of storage. The mainframe hosts the ODYSSEY Enterprise Software Suite that supports the administrative side of student services in admission, registration and advising, as well as the business services of finance, payroll, purchasing, personnel and facilities.

Institutional Advancement

(District Office)

The office of Institutional Advancement has responsibility in three major divisions in carrying out its mission as the development organization for Miami Dade College: District Development Office, the Office of Alumni Relations and the Miami Dade College Foundation Inc.

Resource Development Department

The Department of Resource Development identifies external sources of funding to support the programs and priorities of the College. The department works with College faculty and staff to develop, prepare, and submit innovative grant proposals to public and private funding sources designed to promote excellence in teaching, learning, and institutional effectiveness. Resources obtained through grant awards help fund new and existing programs, special projects, student services, curriculum development, professional staff development, the construction of new facilities, exchange programs, research, new equipment and student scholarships. The Department of Resource Development also encourages public-private partnerships and collaboration with other educational institutions. In addition to the pre-award portion of the grants process at the College, the department is also in charge of the College Processing Number (CPN) System which allows MDC to track proposals submitted to external sources.



112

WWW.MDC.EDU

Miami Dade College Office of Alumni Relations

The Alumni Association's mission is to assist current and past students of MDC through mentorship programs, job networking, fundraising and other means to create a smooth transition from student to member of the workforce. The association maintains the official Web site www.SuccessfulAlumni.com. This site offers a variety of services to all alumni and attendees of the College. More than 1.5 million people have attended Miami Dade College and more than 190,000 have earned degrees.

Members of the Miami Dade College Alumni Association are entitled to numerous benefits, including the use of the College libraries and discounts at participating vendors. Furthermore, members are invited to the various College-sponsored functions, including cultural arts events, the Miami Book Fair International and the Miami International Film Festival. Membership is free: Sign up at www.SuccessfulAlumni.com to receive these benefits, and to be considered for the alumni advertising campaign.

Miami Dade College Foundation Inc.

The Miami Dade College Foundation Inc. was chartered by the state of Florida in 1965 as a nonprofit 501(c)3 direct-support organization of Miami Dade College. Governed and guided by an independent Board of Directors of more than a dozen community leaders, the

MDC college president, a rotating MDC campus president, and a representative of the MDC Board of Trustees, the Foundation is vital to the College's ability to provide high-quality, accessible and affordable educational services to our community.

The Foundation ensures the mission of Miami Dade College is accomplished by promoting interest in the College through three primary objectives:

- Continue to build a permanent endowment to support Miami Dade College;
- Maintain an open-door policy ensuring that no student is denied access to an education for financial reasons;
- Develop broad-based constituent support at the local, state, national and international level to enhance and continue strengthening Miami Dade College as the largest college in the nation.

At a time when legislative support for higher education continues to decline, the Foundation's efforts to identify alternative funding sources are vital to the future of MDC. The Foundation facilitates a means through which individuals, private and family foundations, civic organizations and corporations can work with the College to serve the community. Gifts from these sources have established scholarships, new programs, direct faculty support and critical capital improvement funds.

Contributions to the Foundation are tax-deductible under Section 170 of the Internal Revenue Code and are administered according to gift agreements and donor intentions. Numerous donations from many generous sources, including MDC faculty, staff and administrators have contributed to the growth of the Foundation's endowment which is

approximately \$80 million. The endowment is comprised of more than 700 scholarship and program support donor accounts for the College.

Endowed Teaching Chairs

The Miami Dade College Endowed Teaching Chair program is the first of its kind at a community college dedicated solely to recognize excellence in teaching. Inaugurated in 1992, the Endowed Teaching Chair awards each recipient \$22,500 over a three-year period, allowing faculty to explore new teaching methods, develop new projects, purchase specialized or innovative teaching materials, enhance their technological expertise and further their own knowledge in order to benefit their students.

The Endowed Teaching Chairs represent our institution's highest recognition of our faculty. Recipients of this award, past and present, have demonstrated to their peers the absolute definition of excellence in every aspect of teaching. Further, they have made student learning their top priority and, in doing so, have fulfilled the mission of Miami Dade College.

The Endowed Teaching Chairs have been made possible through the generous support of individuals, corporations and organizations committed to the "art of teaching" and are managed by the Miami Dade College Foundation. The Endowed Teaching Chair program began in 1992 and has awarded more than 238 awards. A gift of an Endowed Teaching Chair is among the most important contributions that can be made to the College and the thousands who are educated at MDC.

Academic Offerings

Course Information 115

Florida's Statewide Course

Numbering System 115

Course Offerings and

Cross References 117

COURSE DESCRIPTIONS

College Credit Courses 122

Vocational Credit Courses 230

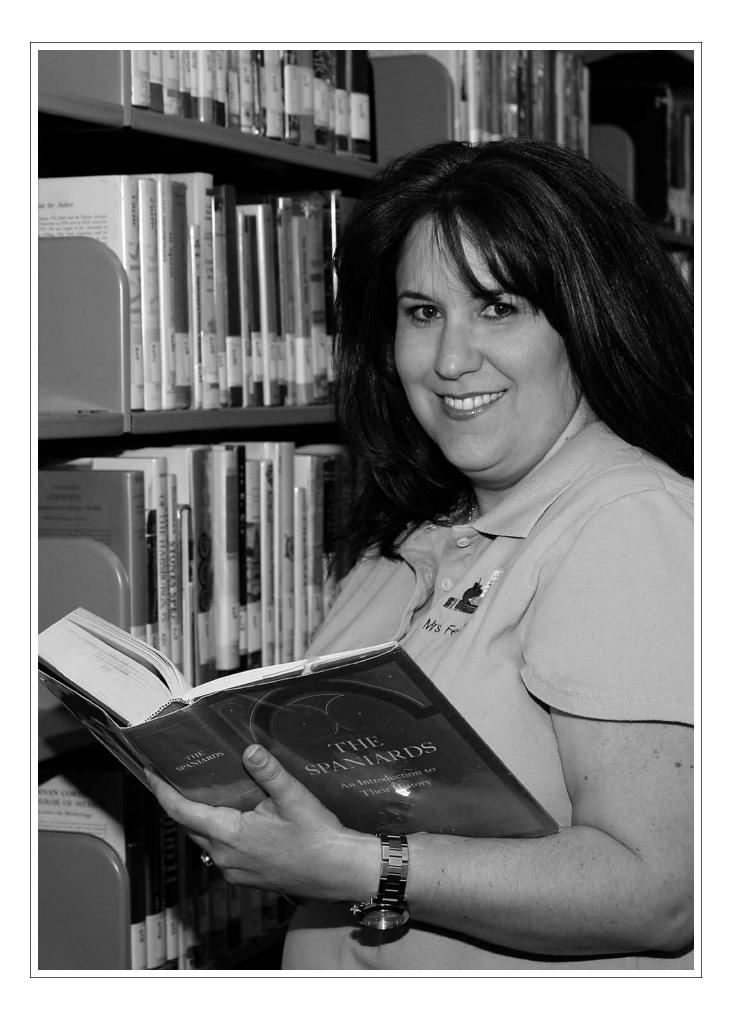












Course Information

Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 31 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online Statewide Course Numbering System to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS Web site at http://scns.fldoe.org.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course profiles."

EXAMPLE OF COURSE IDENTIFIER					
Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
SYG	1	0	1	0	
Sociology, General	Lower (freshman) level at this institution	Entry-level General Sociology	Social Problems Survey Course	Social Problems	No laboratory component in this course

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)

For example, a survey course in social problems is offered by 34 different postsecondary institutions. Each institution uses "SYG_010" to identify its social problems course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Entry-level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In the sciences and certain other

areas, a C or "L" after the course number is known as a lab indicator. The C represents a combined lecture and laboratory course that meets in the same place

at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example,



SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully complete SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

Authority for Acceptance of Equivalent Courses

§ 1007.24(7), F.S., states:

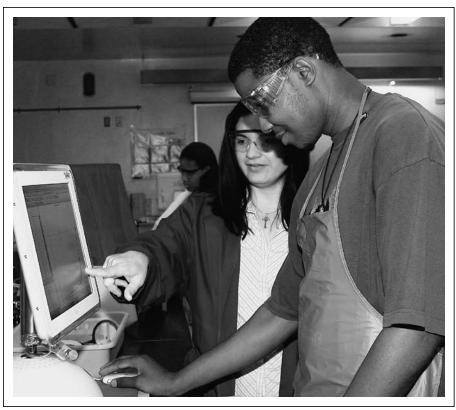
Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency

The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution

- A. Courses not offered by the receiving institution.
- B. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
- C. Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Practica, Study Abroad, Thesis and Dissertations.
- D. College preparatory and vocational preparatory courses.
- E. Graduate courses.
- F. Internships, practica, clinical experiences and study abroad courses with numbers other than those ranging from 900-999.
- G. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice are not guaranteed as transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to (Name of Statewide Course Numbering System Institution Contact) in the (Office where Institution Contact may be located) or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, FL 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at 850-245-0427, SunCom 205-0427 or via the internet at http:// scns.fldoe.org.



17

Miami Dade College Course Offerings and Cross References

Miami Dade College course offerings and their descriptions are grouped under the applicable statewide discipline, in alphabetical order according to discipline title, not under the department or division of the college through which they are offered. For instance: FIN 2100, Personal Finance, is listed under Finance, the statewide discipline and not under a business, economics, or management department. Dance courses, DAA, are listed under Dance, not under Physical Education. Within the specific disciplines, courses are listed alphabetically by prefix, then numeri-

cally within that prefix. Not all courses are offered in all terms or at all campuses. For current offerings, consult the listing of credit courses published each term prior to registration period on all campuses. The number of contact hours per week following each course description are for 16-week terms. More contact hours are required per week for the six and 12-week terms. The cross references which follows will aid you in locating courses by prefix or discipline.

Prefix to Prefix Title to Statewide Discipline

Prefix	Prefix Title	. Statewide Discipline	Page
ACG	Accounting - General	. Accounting	. 122
ACO	Accounting Occupational/Technology	. Accounting	. 230 *
ACR	HVACR: Heating/Ventilation/AC/Refigeration	. HVACR	. 233 *
AFH	African History	. History	. 180
AFR	Air Force ROTC (Aerospace Studies)	. Military Science	. 193
AMH	American History	. History	. 180
AML	American Literature	. English Language and Literature	. 164
AMS	American Studies	. American/Afro-American Studies	. 128
ANT	Anthropology	. Anthropology	. 128
ARC	Architecture	. Architecture	. 128
ARH	Art History	. Art	. 130
ART	Art		
ARV	Architectural/Drafting Technology	. Architecture	. 235 *
ASC	Aviation Science	. Aeronautical Science	. 123
ASL	American Sign Language	. American Sign Language	. 221
AST	Astronomy	. Physics	. 210
ATE	Animal Science: Technology		
ATF	Aviation Technology Flight	. Aeronautical Science	. 123
ATT	Aviation Technology Theory	. Aeronautical Science	. 124
AVM	Aviation Management	. Aeronautical Science	. 124
AVS	Avionics	. Aeronautical Science	. 125
BAN	Commercial Banking (AIB)		
BCA	Building Construction Apprenticeships		
BCH	Biochemistry	. Biochemistry	. 133
BCN	Building Construction	. Building Construction	. 136
BCT	Building Construction	. Building Construction	. 136
BCV	Building Construction	e e e e e e e e e e e e e e e e e e e	
BOT	Botany	. Biological Science	. 133
BRC	Banking	<u> </u>	
BSC	Biological Sciences	. Biological Science	. 134
BUL	Business Law		
BUV	Business Occupational/Technology		
CAP	Computer Applications	. Computer Sciences	. 138
CCJ	Criminology & Criminal Justice		
CEN	Computer Engineering		
CET	Computer Engineering Technology	. Electrical/Electronic Technology 140	, 161





			Page
CGS	Computer General Studies	-	
CGV	Computer Concepts and Occupational Technology	. Computer Science	237 *
CHI	Chinese Language	Asian Languages & Literature	138
CHM	Chemistry	. Chemistry	137
CIS	Computer Information Systems	. Computer Science/Engineering	141
CJC	Criminology & Criminal Justice	. Criminal Justice	146
CJD	Criminal Justice Development	. Criminal Justice	239 *
CJE	Criminal Justice Development	. Criminal Justice	147
CJK	Criminal Justice & Related Technologies	. Criminal Justice	240 *
CJL	Criminal Justice Development	. Criminal Justice	147
CJT	Criminal Justice Technology	. Criminal Justice	241 *
CLP	Clinical Psychology	. Psychology	212
COE	Cooperative Education	• • • • • • • • • • • • • • • • • • • •	
COM	Communications / Vocational		
COP	Computer Programming		
CPO	Comparative Politics		
CRW	Creative Writing		
CTE	Home Economics: Clothing & Textiles		
CTS	Computer Technology & Skills		
DAA	Dance Activities		
DAN	Dance		
DEH	Dental Hygiene		
DEP	Developmental Psychology	, e	
DES	Dental Support		
DIG	Digital Media	* *	
EAP	English for Academic Purposes.		
ECO	Economics	-	
EDF	Education: Foundations & Policy Studies	•	
EDG	Education: General	•	
EEC	Education: Early Childhood	•	
EEL	Engineering: Electrical		
EER	Electronic Technology/Vocational		
EET	Electronic Engineering Technology	_ •	
EEV	Electrical/Electronic Vocational		
EEX	Education: Exceptional-Child-Core Competencies		
EGN	Engineering General		
EGS	Engineering: General/Engineering: Support		
EHD	Education: Hard of Hearing and Deaf		
EME	Education: Technology and Media	•	
EMS	Emergency Medical Services		
ENC	English Composition	English Language & Literature	164
	English College Preparatory	English College Preparatory	166
ENG	English: General	English Language & Literature	165
ENL	English Literature	English Language & Literature	165
EPI	Educator Preparation Institutes	Educator Preparation Institutes	158
ESC	Earth Science	Geology	175
EST	Electronic Specialty Technology	Electrical/Electronic Technology	162
ETC	Engineering Tech: Civil	Engineering Technologies	160
ETD	Engineering Tech: Drafting	Engineering Technologies	160
ETG	Engineering Tech: General		
ЕТІ	Engineering Tech: Industrial		
ETM	Engineering Tech: Mechanical		
ETV	Engineering Tech: Mechanical Drafting		
EUH	European History		

	Paş	зe
Occupational Safety & Health Tech	Environmental Studies	*
Environmental Science	Engineering Technologies	
Fire Fighting and Protection		
Film		
Finance		
Food Service		
Foreign & Biblical Language in Translation		
French Language	C	
French Literature (Writing)		
Funeral Services		
Food Service Systems		
Geography-Regional Areas		
General Business		
Geography-Systematic	·	
Geography: Information Science	Geography	
German Language	German & Germanic Language & Literature 175	
Geology	Geology	
Graphic Arts	Graphic Arts	*
Graphics	Graphics Arts	*
Haitian Creole Language		
Modern Hebrew Language	0 0	
Haitian Creole Language		
Home Economics		
Hospitality Management		
Health Information Management		
Health, Leisure, Physical Education.		
Travel Agency Operations.		
Horticulture Sciences		
Health Sciences	•	
Humanities		
Human Nutrition		
Human Services	-	
Interdisciplinary Honors	Interdisciplinary Studies	
Interdisciplinary Sciences	Interdisciplinary Sciences	
Interior Design	Interior Design	
Industrial & Applied Psychology	Psychology	
International Relations	Political Science	
Horticulture Sciences	Ornamental/Horticultural Science	
Interdisciplinary Sciences		
Interdisciplinary Social Sciences		
Italian Language	- · · · · · · · · · · · · · · · · · · ·	
Journalism		
Japanese Language		
	-	
Judaic Studies		
Latin American History	· ·	
Landscape Design		
Linguistics		
Library Science	•	
Literature		
Mathematics: Calculus & Pre-Calculus		
Mathematics: Discrete	Mathematics	
Mathematics Education	Mathematics Educations	
Management	Management 106 2/8	*



MAP	Mathematics Applied	Mathematics	Page 189
MAR	Marketing		
MAS	Mathematics: Algebraic Structures	e e e e e e e e e e e e e e e e e e e	
MAT	Mathematics		
141211	College Preparatory.		
МСВ	Microbiology		
MDW	Midwifery		
MEA	Medical Assisting Technology		
MET	Meteorology	_	
MGF	Mathematics: General & Finite	-·	
MHF	Mathematics		
		•	
MKA	Marketing Applications		
MLT	Medical Laboratory Technology		
MLV	Medical Laboratory Sciences/Phlebotomy		
MMC	Mass Media Communication.		
MNA	Management Applied		
MSL	Military Science		
MSS	Massage Therapy		
MTB	Mathematics - Technical and Business		
MTG	Mathematics: Topology & Geometry		
MUC	Music: Composition		
MUE	Music: Education		
MUH	Music: History/Musicology	. Music-General	195
MUL	Music: Literature	. Music-General	195
MUM	Music: Music Commercial	. Music-General	195
MUN	Music: Musical Ensembles	. Music-General	196
MUO	Music: Opera/Musical Theatre	. Music-General	197
MUS	Music	. Music-General	197
MUT	Music:Theory	. Music-General	197
MVB	Music: Applied-Brasses	. Music-Applied	198
MVJ	Music: Applied-Jazz	. Music-Applied	198
MVK	Music: Applied-Keyboard	. Music-Applied	198
MVO	Music: Applied-Other Instruments	. Music-Applied	199
MVP	Music: Applied-Percussion	. Music-Applied	198
MVS	Applied Music: Strings	. Music-Applied	198
MVV	Music:Applied-Voice	. Music-Applied	199
MVW	Music:Applied-Woodwinds	7 7	
NMT	Nuclear Medicine Technology	. Medical Imaging & Radiation Therapy	199
NUR	Nursing	. Nursing	200
OCA	Office Computer Applications		
OCB	Oceanography		
OCE	Oceanography	~	
OCP	Oceanography	·	
OFT	Office Technology Occupational - Variable Paced	~ · ·	
OPT	Ophthalmic Technology		
ORH	Ornamental Horticulture		
OST	Office Systems Technology.		
OTA	Office Technology Application	·	
PAD	Public Administration		
PAS	Physician Assistant		
PCB	Process Biology.	•	
РСО	Psychology for Counseling		
PEO	Physical Education Acts (General)-Object Centered, Land		
	·	•	
PEP	Physical Education Acts (General)-Performance Centered Physical Education Theory.	·	208 208

1

MDC 2008-10 CATALOG

		Pag	јe
PGY	Photography		*
PHI	Philosophy		
PHM	Philosophy of Man & Society		
PHT	Physical Therapy	•	
PHY	Physics	Physics	
PHZ	Physics	Physics	
PLA	Paralegal/Legal Assisting/Legal Adm		
PMT	Precision Metals Technology	Precision Metals Technology	*
POR	Portuguese Language	Portuguese Language & Literature	
POS	Political Science	Political Science	
POT	Political Theory	Political Science	
PRN	Practical Nursing	Practical Nursing	*
PSB	Psychobiology	Psychology	
PSC	Physical Sciences	Physics	
PSY	Psychology	Psychology	
PTN	Pharmacy Technician	Health Care Providers	*
PUR	Public Relations	Mass Communication	
QMB	Quantitative Methods in Business	Quantitative Methods in Business	
RAT	Radiation Therapy	Radiologic & Nuclear Medicine/Technology 213	
REA	Reading	Reading	
		Reading College Preparatory215	
RED	Reading Education	Language Arts & English Education	
REE	Real Estate.	Real Estate	*
REL	Religion	Religion	
RET	Respiratory Therapy	Respiratory Therapy	
RMI	Risk Management & Insurance		*
RTE	Radiologic Technology		
RTT	Radio & Television Technology		*
RTV	Radio-Television	· ·	
RUS	Russian Language		
SBM	General Business		*
SCE	Science Education.		
SLS	Student Life Skills		*
SON	Sonography	•	
SOP	Social Psychology	• • • • • • • • • • • • • • • • • • • •	
SOW	Social Work		
SPA	Speech Pathology & Audiology		
SPC	Speech Communication		
SPN	Spanish Language	*	
SPT	Spanish Literature in Translation.	-	
SPW	Spanish Literature (Writings)	-	
STA	Statistics	-	
SUR	Surveying & Related Areas		*
SYG	Sociology, General.		
TAX	Taxation	••	
TDR	Engineering Technology: General		*
THE	Theatre Studies & General Resources		
TPA	Theatre Production & Administration	-	
TPP	Theatre Performance & Performance Training		
TRA	Transportation and Logistics		*
TSL	Teaching English as a Second Language		
VIC	Visual Communication		
VPI	Vocational Preparation		*
WOH	World History	- · · · · · · · · · · · · · · · · · · ·	
700	•	Riological Science 136	



COURSE DESCRIPTIONS

College Credit Courses

Miami Dade College courses are developed and offered to meet the many and varied needs of both individual students and the community. College credit courses are offered in general education, occupational/ technical, nursing, allied health, business, and public service disciplines. The following are descriptions of more than 2,000 college credit courses at Miami Dade College. These courses are applicable to the Associate in Arts and/or Associate in Science degree programs. They are listed in alphabetical order by title according to the State Course Numbering System directory of taxonomies. Not all courses are offered each term or at each campus. Check the registration handbook of the campus you are attending, or plan to attend, prior to registration each term.

Hccounting

ACG1949 Co-op Work

Experience 1: ACG 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employee. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

ACG2001 Principles of Accounting 1

An introduction to the basic principles of financial accounting with emphasis on basic accounting procedures such as the recording of transactions and the preparation of financial statements. Other topics include inventories, receivables, and cash. ACG 2001 and ACG 2011 can be substituted for ACG 2021. Corequisite: ACG 2001L. (3 hour lecture)

ACG2001L Principles of

Accounting 1 Lab 1 credit

Provides the accounting student with support to achieve the objectives of ACG 2001. Corequisite: ACG 2001. Laboratory fee. (2 hour lab)

ACG2011 Principles of

Accounting 2 3 credits

Accounting for owner's equity with emphasis on corporate financial statements. Other topics include plant assets, intangible assets, current and long-term liabilities. ACG 2001 and 2011 can be substituted for ACG 2021. Prerequisite: ACG 2001; corequisite: ACG 2011L. (3 hour lecture)

ACG2011L

Principles of Accounting 2 Lab

1 credit

Provides the accounting student with support to achieve the objectives of ACG 2011. Corequisite: ACG 2011. Laboratory fee. (2 hour lab)

ACG2021

Financial Accounting 3 credits

An introduction to financial accounting concepts and analysis with emphasis on corporate financial statements and determination of income. Corequisite: ACG 2021L. (3 hour lecture)

ACG2021L

Financial Accounting Lab 1 credit

Provides the accounting student with support to achieve the objectives of ACG 2021. Corequisite: ACG 2021. May be repeated for credit. (2 hour lab)

ACG2031

Accounting Theory

Designed primarily for the transferring accounting major, the course covers current topics in both financial and managerial accounting. It exposes the student to a computerized accounting system. It also familiarizes the student with current accounting literature and includes a review of the preparation and analysis of financial statements. Prerequisites: ACG 2071. (3 hour lecture)

Managerial Accounting 3 credits

Managerial Accounting focuses on the accounting information needs of the various levels of internal management within an organization. Internal responsibility is directed at three major areas of management responsibility: cost determination, planning and control, and long-term decision-making. Prerequisite: ACG 2011 and ACG 2001 or ACG 2021; corequisite: ACG 2071L. (3 hour lecture)

ACG2071L

Managerial Accounting Lab 1 credit Provides the accounting student with support to achieve the objectives of ACG 2071. Corequisite: ACG 2071. Laboratory fee. (2 hour lab)

ACG2100

Intermediate Accounting 1 3 credits

A review of the accounting cycle and advanced work in the area of temporary investments, receivables, inventories, plant assets, and investments in stock and bonds. Prerequisite: ACG 2071. Special fee. (3 hour

ACG2110

Intermediate Accounting 2 3 credits

Topics include intangibles, long-term debts, paid-in capital and retained earnings; includes extensive analysis and interpretation of financial statements. Prerequisite: ACG 2071. (3 hour lecture)

ACG2170

Financial Statement

Analysis 3 credits

Basic instruction in analyzing statements in order to make sound judgments on the financial condition of specific businesses. Prerequisite: ACG 2071. Special fee. (3 hour lecture)

ACG2360

Cost Accounting 3 credits

A consideration of the accumulation, interpretation and control of costs by the job order and the process cost systems. Includes the study of break-even analysis, budgeting and other cost control techniques. Prerequisite: ACG 2071. Special fee. (3 hour lecture)

ACG2450

Microcomputers in

3 credits Accounting

Accounting application of electronic data processing including the preparation interpretation and use of computer information in financial decision making. Pre-/Co-requisite: ACG 2001 or ACG 2021. Special fee. (1-3 hour lecture)

ACG2450L

Microcomputers in

Accounting Lab 2 credits Provides additional exposure to electronic spread sheets and other pertinent software. Corequisite: ACG 2450. Laboratory

fee. (4 hour lab)

ACG2500

Financial Management

for Non-Profit Organizations 3 credits This course provides an overview of the way in which a non-profit organization is responsible for the financial management of the organization. Success of many non-profits centers on the feasibility of the groups fiscal policies. This course provides a systematic analysis of the financial and legal ground work for which non-profit administrators, board members, and staff of non-profits are responsible. (3 hour lecture)

ACG2630

Auditing 3 credits

Fundamental principles of audit practice and procedure including the verification of balance sheets and income statement items, the preparation of audit working papers, and the compilation of audit reports. The course includes short problems and audit of accounting records. Prerequisite: ACG 2071. Special fee. (3 hour lecture)

ACG2949 Co-op Work

Experience 2: ACG 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

TAX2000

Income Tax 3 credits

Federal income tax fundamentals with emphasis on individual returns. Topics considered include gross income, capital gains and losses, deductions and exemptions, and tax credits. Special fee. (3 hour lecture)

TAX2010

Business Taxes & Returns 3 credits

A practical course on the various tax reports and forms required in an accounting office. Topics include payroll deposits, payroll returns, corporate tax return, annual report, tangible and intangible tax returns, sales taxes, employment forms and licenses. (3 hour lecture)

Aeronautical Science

ASC1010

Aerospace History 3 credits

This course is designed to provide the student with an understanding of the significant events, people, places and technologies of aviation that have occurred as it progressed through history. The course begins centuries before man flew when concepts of flight were first being imagined to the first successful hot air balloons and the first heavier than air attempts at flight and continues to the present day with supersonic aircraft and space vehicles from both a civilian and military perspective. (3 hour lecture)

ASC1120

Private Pilot Applications 3 credits

This course, together with ATT 1100, provides the basic knowledge needed by students in the Professional Piloting Technology program. The two courses must be taken concurrently by students majoring in the professional Piloting Technology program. The areas of study include: aircraft preflight,

the planning and preparations prior to flight, airport operations, airspace, Federal Aviation Regulations, flight information publications, air navigation, cross country navigation, radio navigation, and flight safety. When this course is taken simultaneously with ATT 1100, it will prepare students for the FAA (Federal Aviation Administration) Private Pilot Knowledge Examination and allow them to take the FAA exam (IAP047) upon completion of the course. Corequisite: ATT 1100, ASC 1210. (3 hour lecture)

ASC1210

Aviation Meteorology 3 credits

This is a core aviation course. The student will be prepared to understand weather and environmental issues in commercial aviation. Topics covered will be atmospheric phenomena relating to aircraft operations, the analysis and use of weather data as presented by the U.S. National Weather Service. Prerequisite: ATT 1100 or equivalent; corequisite: ATT 2110 or equivalent. Special fee. (3 hour lecture)

ASC1550

Aerodynamics 3 credits

This is a basic course in aerodynamics. Students will analyze the physics of flight and the application of basic aerodynamics to both airframe and power plant as preparation for the requirements of commercial aviation. (3 hour lecture)

ASC1610

Aircraft Engines

and Structure Theory 3 credits

This is a foundation course in aircraft engines and structure. Students will learn the elements of aircraft engines, engine theory, construction, systems, operating procedures, performance diagnosis, and aircraft structures. (3 hour lecture)

ASC2320

Aviation Laws

and Regulations 3 credits

Insight pertinent to federal governing bodies, and current local, federal and international laws forming the present structure of aviation law. (3 hour lecture)

ASC2470

Physiology/Psychology

of Flight 3 credits

This is an introductory course in the physiology and psychology of flight. Students will learn aero-medical facts of significance to pilots, including causes, symptoms, prevention and emergency treatment of ailments common to the aviation environment through a basic understanding of a person's normal functioning. Cabin pressurization, communications, decompression sickness, hyperventilation, hypoxia, self-imposed estresses, spatial disorientation and vision are examined. (3 hour lecture)

ASC2670

Aircraft Systems 3 credits

As preparation for commercial aviation requirements, this course is concerned with a detailed study of aircraft systems, their

various sources of basic power and the functional application of mechanisms operated by these systems. Prerequisite: ASC 1610. (3 hour lecture)

ATF1100

Private Pilot Flight 3 credits

This course provides flight training in the areas required to safely perform the duties of Private Pilot. This will fulfill the requirements as outlined in FAR part 141 and as presented in the Jeppesen Sanderson Private Pilot syllabus. Upon satisfactory completion of this course, the FAA written exam and the practical exam, the applicant will receive an FAA Private Pilot Certificate; A Class 1 FAA Medical Certificate is required. Corequisites: ATT 1100, ASC 1210. Special fee. (3 hour lecture)

ATF1601L

Flight Orientation/Simulator 1 credit
This course will provide the student with an
introduction to the environment of operating an aircraft from a pilot's point of view.
It is designed to provide this knowledge to
those students such as Air Traffic Controllers
and Aviation Administration Students who
have no piloting experience. Special fee. (2
hour lab)

ATF2200

Instruments Pilot Flight 3 credits
This course provides the flight training

This course provides the flight training required to safely conduct flights as an instrument-rated pilot. The training is conducted in accordance with Part 141 of the Federal Aviation Regulations as outlined in stages 1 through 4 of the Jeppesen Sanderson Instrument/Commercial Syllabus. Upon satisfactory completion of this course and the Federal Aviation Administration (FAA) knowledge and practical exams, the applicant will receive an FAA instrument rating. Prerequisites: ATF 1100; FAA Private Pilot Certificate; corequisites: ATT 2120; current FAA Medical Certificate. Special fee. (3 hour lecture)

ATF2210

Commercial Pilot Flight 3 credits

This course provides pilot training required to allow the student to safely conduct flight as a Commercial Pilot. The training will be conducted in accordance with FAR Part 141 and in concert with stages 5 and 6 of the Jeppesen Sanderson Instrument/Commercial Syllabus. Upon satisfactory completion of this course, the FAA written exam and FAA practical exam the student will receive an FAA Commercial Rating. A Class 1 Medical Certificate with Instrument Rating is required. Special fee. (3 hour lecture)

ATF2300

Multi-Engine Pilot Flight 1 credit

This course provides the flight training required to prepare the student to safely conduct flight as a Multi-Engine Pilot. Upon satisfactory completion of this course, and the FAA oral and practical exam the student will receive an FAA Multi-Engine Rating. Prerequisite: ATF 1100 or ATF 2210; corequisite: ATT 2133. Laboratory fee. (3 hour lecture).

124



ATF2501

Flight Instructor-

Flight Training 3 credits

This course provides flight training for the student to develop the ability to analyze the performance of private and commercial flight maneuvers from the right seat of a training aircraft, in compliance with the Federal Aviation Administration Certified Flight Instructor Certificate. Prerequisite: ATF 2300; corequisites: ATT 2131, ATF 2501L. Special fee. (3 hour lecture)

ATF2501L

Flight Instructor-Laboratory 1 credit Provides the student with internship teaching experience based upon the principles of flight instruction learned in ATT 2131 and ATF 2501. Students will learn to develop lesson plans and how to communicate effectively using instructional materials Prerequisite: ATF 2300; corequisite: ATT 2131, ATF 2501. (2 hour lab)

ATF2651C

Flight Engineer-Turbojet 4 credits

This course will provide ground and simulator training for the purpose of obtaining a turbojet flight engineer license (Boeing 727) in accordance with provisions of FAR 63.64, FAR 63 Appendix C and Exemption 4901. Each trainee must hold a valid Commercial Pilot's Certificate with an instrument rating. Each trainee must also have successfully completed the FAA Flight Engineer Written Exam in accordance with FA.R. 63.35(d). (3 hour lecture; 2 hour lab)

ATT1100

Private Pilot Theory 3 credits

This course introduces basic subjects pertaining to pilot knowledge including: basic aircraft systems, aircraft operation and performance, aerodynamic principles, human factors, and aeronautical decision making. When this course is taken concurrently with ASC 1120, it will prepare students for the FAA (Federal Aviation Administration) Private Pilot Knowledge Examination and allow them to take the FAA exam (IAPO47) upon completion of the course. This course meets the requirements of FAR part 141 for a ground school for the FAA Private Pilot Certificate. Corequisite: ASC 1210 (3 hour lecture)

ATT2110

Commercial Pilot

Theory 3 3 credits

This course provides students with the aeronautical knowledge required to act as Commercial Pilot. Students will prepare for the FAA Commercial Written Exam. Private Pilot Certificate with Instrument Rating required. Prerequisite: ATF 2200. Corequisite: ATF 2300 or 2210. (3 hour lecture)

ATT2120

Instruments Pilot

Theory 4 credits

This course introduces basic theories of instrument pilot operations to prepare students for the FAA Instrument Written Exam. Students will acquire aeronautical knowl-

edge required to act as an Instrument rated Pilot. It will prepare the students for the FAA Instrument Written Exam. Private Pilot Certificate required. Prerequisites: ASC 1210, ATF 1100, ATT 1100; corequisite: ATF 2200. (4 hour lecture)

ATT2131

Flight Instructor Theory 3 credits

Provides the student ground instruction to obtain the necessary aeronautical knowledge, to meet the FAA written standards for the Certified Flight Instructors Certificate. Preparation for the written exam is included in the course content. Prerequisite: ATF 2300; corequisites: ATF 2501, 2501L. (3 hour lecture)

ATT2133

Multi-Engine Pilot Theory 2 credits

This course introduces basic theories of multi-engine pilot operations to prepare students for the FAA Multi-Engine oral and practical exams. Students will acquire aeronautical knowledge required to act as a multi-engine rated pilot. (2 hour lecture)

ATT2140

Flight Engineer Theory 3 credits

The course encompasses the salient requirements entailed in preparation for the Federal Aviation Administration's Basic Flight Engineer and Turbo-jet class rating written examinations. Prerequisites: Commercial Pilot's license, ASC 1210, 1610, 2670. (3 hour lecture)

ATT2660

Regional Airline Operations 3 credits

This course provides theoretical instruction and practical experience in flight planning inclusive of navigation, weather, fuel management, flight and communication procedures, aircraft performance, crew coordination and simulator procedures. Utilizing flight systems automated panels, the course additionally provides practical instruction in the operation of aircraft systems. Prerequisites: ASC 1610,ATT 2110, 2120. (3 hour lecture)

ATT2820

Air Traffic Control 3 credits

The basic elements of air traffic control operations, providing the necessary foundation for successful completion of the Air Traffic Control Basic Certification Examination. Prerequisite: sophomore standing in major program. (3 hour lecture)

ATT2821

Air Traffic

Control (ATC) Radar 3 credits

This course will provide the student with a fundamental knowledge of air traffic control practices, policies and procedures as they relate to the specifics of the controller function in an air traffic radar operating environment, with air traffic controllers utilizing the radar for traffic separation. The liberal use of the figures and example phraseology assist the student in achieving an overall use of understanding of the air traffic control system. A radar air traffic control simulator is uti-

lized to provide realistic training exercises for the students. Prerequisite: ASC1210. (2 hour lecture; 2 hour lab)

ATT2822

VFR Tower Operations 3 credits

This course expands the knowledge attained from ATT 2820, and is designed to further develop the aviation students skill in the ATC environment. Emphasis is placed on the duties and responsibilities of operational positions in local, ground, flight data, and coordination. Students will also learn the FAA regulations which govern flight under visual conditions. Optimum use of the Hughes Virtual Tower incorporated into this course. Prerequisite: ATT 2820. Special fee. (3 hour lecture)

ATT2823

Air Traffic

Control (ATC) NON-Radar 3 credits In this course, future air traffic controllers will acquire an understanding of air traffic control practices, policies and procedures and their application in a non-radar air traffic environment. Throughout this course, (Non-Radar Procedures) appropriate real-life examples are used to illustrate the reasoning behind procedures used by air traffic controllers utilizing the non-radar methods. The liberal use of figures and example phraseology is used to assist the student in achieving an overall understanding of the air traffic control system. Prerequisites: ATT 2820, ASC 1210. Special fee. (3 hour lecture)

AVM1010

Aviation Industry Operation 3 credits

The course provides insight into the development and present status of aircraft and air transportation, governmental organizations, controls and regulations, and career opportunities in the field. (3 hour lecture)

AVM1022

Flight Operations

3 credits

An investigation of the occupational duties, responsibilities, and physical facilities required by the positions of pilot, co-pilot, flight engineer, dispatcher and flight attendant. (3 hour lecture)

AVM1062

Aviation Career Planning 1 credit

This course provides direction and guidance in career planning for all aviation students. Topics of discussion will include the job search education and training requirements, resume writing, business etiquette, interview skills and follow-up techniques. A.S. degree credit only. (1 hour lecture)

AVM1101

International Routes 3 credits

Study of national and international route structures. Includes study of route structure economics (why developed), city/airport codes (who serviced), regional business patterns (market segments available), and major environmental and social attributes. (3 hour lecture)

0**0** 2008-10 CATALOG

AVM1121

Hazardous Materials/

Dangerous Goods 3 credits

This course is designed to provide the student with knowledge of dangerous goods/hazardous materials and their effect in air transportation and logistics. The students will be conversant in hazardous material regulations for cargo and passenger transportation. The course will encompass the identification, labeling, packaging and handling of 9 types of dangerous goods in air transportation and general logistics. Prerequisite: AVM 2120. Special fee. (3 hour lecture)

AVM1301 Aviation Sales

and Promotion 3 credits

A presentation and utilization of sales methods, sales tools, sales opportunities and personal sales skills requirements for entry level sales employment in the aviation industry. Included are sales campaign planning and implementation factors of flight, travel and cargo options. (3 hour lecture)

AVM1440

Aviation/Airport Security 3 credits

This course will provide the student with knowledge of the issues and strategies that are used to protect the national airspace system, airports and airlines from security threats. The various types of threats and responses to those threats will be covered. In addition, the legal requirements planning issues, physical equipment and facility requirements and personnel issues will also be discussed. (3 hour lecture)

AVM1520

Airline Reservations 3 credits

Prepares students for airline employment opportunities through a familiarization of the procedures involved in airline reservations, cargo reservation and route structures, using the American Airline's SABRE reservations and LATA systems. This course is not approved for the Travel Agency Management degree. A.S degree credit only. Special fee. (3 hour lecture)

AVM1521

Airline Ticketing 3 credits

A preparation for airline employment opportunities requiring the responsibilities of airline ticketing procedures manual and automated (American Airline's SABRE system) for domestic and international ticketing, teleticketing, boarding procedures, and immigration guides. This course is not approved for the Travel Agency Management Degree. A.S. degree credit only. Special fee. (3 hour lecture)

AVM1949 Co-op Work

Experience 1: AVI 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Prerequisite: 2.0 minimum GPA, approval of Co-op Program Director, minimum of 6 credits in field or work approved experience. (3 hour lecture)

AVM2120

Air Cargo 3 credits

The course develops a comprehensive grasp of the characteristics and evolution of air cargo, its impact on United States industry, inherent problems and future development. (3 hour lecture)

AVM2410 Principles of

Airport Management 3 credits

This course provides the student with a broad background in the Principles of Airport Management. This includes the airport system and its history, planning, land use, community relation issues, financial issues, capacity and growth, operations, organization and administration. Special fee. (3 hour lecture)

AVM2412

Airport Facilities/

Financial Planning 3 credits

This course provides the student with an in depth knowledge of the techniques and strategies of the airport master plan in planning airport facilities and financial resources. Forecasting, demand analysis, sources of funding, planning requirements, environmental issues and requirements and compliance issues will be discussed. Also implementation and control issues, financial management, budgets, costs and revenues as well as airport economics will be discussed. Prerequisite: AVM 2410. Special fee. (3 hour lecture)

AVM2431

Customer Service Agent 3 credits

Covers the generic skills needed for any airline position involving regular contact with the traveling public. Includes human relations, personal appearance enhancement, etiquette, conflict management, speech skills, and the acquisition of attributes that would promote a proper professional image. (3 hour lecture)

AVM2441

Aviation Safety

& Human Factors 3 credit

This course will provide the student with an understanding of human factors and safety concepts as they apply to aviation. There will be an evaluation of aircraft accidents and their causal factors. Accident prevention measures are stressed as integral parts of an aviation safety program. (3 hour lecture)

AVM2510

Airline Management 3 credits

An insight relative to the business policies and the functions of management in airline operations. Course involves various internal managerial facets and the impact of external regulatory and economic implications. (3 hour lecture)

AVM2515

Airline Marketing 3 credits

A differentiation of the functions of marketing in airline operations; market research, demand analysis, advertising and promotion, sales, traffic, and the theory of price determination. (3 hour lecture)

AVM2949

Co-op Work

Experience 2: AVI 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Prerequisite: 2.0 minimum GPA, approval of Co-op Program Director, completion of AVM 1949. (3 hour lecture)

AVS2000

Avionics 3 credits

An examination of the basic applications electrical/electronic systems utilized in current aircraft; a foundation in the concepts and their circuitry as applied to power plant and airframe systems and control. Laboratory fee. (1 hour lecture; 4 hour lab)

Agriculture & Related Technologies

ATE1110

Animal Anatomy 3 credits

This course explores the physical and functional phenomena that interact to sustain life in animals. Relationships of all of the systems in domestic animals, such as the osseous apparatus, the respiratory, digestive, genitourinary, endocrine, and nervous systems will be presented. The student will also be introduced to the descriptive and topographical terms needed to communicate with the professional staff. Prerequisites: BSC 1005, 1005L, ENC 1101; corequisites: ATE 1110L, 1211, 1650L, 1940. (3 hour lecture)

ATE1110L Animal Anatomy

& Physiology Lab 1 credit

This course will complete the coverage and understanding of the physiological and anatomical relationships required for further development as a veterinary technician. This course will correlate with lecture material learned in the Animal anatomy and Animal Physiology lecture courses. Anatomical dissection, necropsy, examination of live animals will be used as well as the study of radiographs, skeleton models and histological sections. (2 hour lab)



ATE1211

Animal Physiology 3 credits

This course is designed to explore the terminology related to animal physiology, in addition to all aspects of the functions of systems in small and large animals. (3 hour lecture)

ATE1311L Veterinary Office

Procedures 1 credit

This course is designed to acquaint the student with mathematics and office procedures used in veterinary hospital management and veterinary computer applications. (2 hour

ATE1630

Pharmacology for

Veterinary Technicians 1 credit

This course is designed to explain the drug classifications pertaining to animal use, methods of calculating appropriate drug dosage, routes of administration and evaluation of drug efficacy. (1 hour lecture)

ATE1650L Introduction to Clinical Practice 1

1 credit

This course is designed to acquaint the student with basic laboratory and nursing skills, including restraint, history taking, examination room techniques, administration of medication, basic parasitology, and basic clinical pathology procedures. (2 hour lab)

ATE1940 Veterinary Clinical

Experience 1 1 credit

This clinical course is designed to guide the student through the application of skills learned in the introduction to Clinical Practice 1. The student will be assigned a veterinary site approved by the college and will perform in a supervised clinical setting (6 clinical hours for which the student receives no monetary compensation). (6 hour clinic)

ATE1941 Veterinary Clinical

Experience 2

2 credits This course consists of supervised clinical experience in a work place approved by the college. The competencies mastered in Veterinary clinical experience 1 will be reinforced while adding application of classroom knowledge in pharmacology, clinical laboratory procedures, and surgical skills. The student receives no monetary compensation for the clinical hours. Prerequisites: ATE 1110, 1940; corequisite: ATE 2652L. (6 hour clinic)

ATE2050L

Animal Nursing

& Medicine Laboratory 2 2 credits The student will practice training a dog, and applying corrections for common behavioral problems. Clinical training in a small animal necropsy is also presented. Prerequisites: ATE 1110, 2631, 2655L; corequisite: ATE 2612. (2 hour lab)

ATE2501

Professional Development

& Ethics for the

Veterinary Technician 2 credits

This course is designed to acquaint the student with the laws and agencies governing the care, use and movement of animals and livestock. Veterinary ethics, resume writing and employment skills, and current trends in veterinary practice will also be described. Prerequisite: ATE 1110; corequisite: ATE 2611. (2 hour lecture)

ATE2611

Animal Medicine 1 3 credits

This course is designed to acquaint the student with anesthesiology, asepsis and general surgical nursing care, essentials in pharmacy and pharmacology, and concepts in microbiology, virology and immunology. Prerequistes: ATE 1110, 1211; corequisites: ATE 2661, 2942, 2631, 2655L. (3 hour lecture)

ATE2612

Small Animal

Nursing 2 3 credits

A study of the basic concepts of nutrition, obstetric, and pediatric care, as well as the important aspects regarding zoonotic diseases, public health and animal behavior. The student will also be introduced to alternative medicine, including holistic concepts, homeopathic, acupuncture, chiropractic and other emerging specialties. Prerequisites: ATE 1110, 2611, 2631, 2655L; corequisite: ATE 2050L. (3 hour lecture)

ATE2614

Animal Medicine 2 3 credits

This course will explore general pathology, causes and nature of disease, toxicology, and an overview of pathologies of major systems, as well as immunity disease prevention, common vaccinations and diseases relating to small animals. Prerequisites: ATE 1110, 2611. (3 hour lecture)

ATE2631

Small Animal

Nursing 1 3 credits

The student will master the technical skills of medicating animals and the taking and processing of radiographs. This course also covers general care, including grooming and bathing, feeding and watering, nail trimming, ear cleaning, anal sac expression, and determination of vital signs. Prerequisites: ATE 1110, 1211; corequisites: ATE 2611, 2655L. (3 hour lecture)

ATE2636

Large Animal

Clinic & Nursing Skills 2 credits

This course is designed to acquaint the student with the fundamentals of large animal herd management, reproductive physiology and lactation physiology. Aspects of equine, bovine, ovine and porcine husbandry will be included. Prerequisites: ATE 1110, ATE 1211; corequisite: ATE 2636L. (2 hour lecture)

ATE2636L Large Animal Clinic & Nursing Skills Laboratory

1 credit

This course is designed to acquaint the student with the fundamentals of large animal husbandry, herd health management, preventive medicine, animal restraint and nutrition as it relates to the bovine, equine, porcine and caprine species. Techniques discussed in the Large Animal Clinic and Nursing skills course such as venipuncture, injections and administration of other oral medications will be reviewed and demonstrated. One laboratory session will be devoted to poultry science. (2 hour lab)

ATE2638

Animal Lab Procedures 1

3 credits

This course is designed to introduce the veterinary technician to common parasites and their life cycles seen in routine veterinary practice. Also, hematology and the kinetics of the hematopoietic system are discussed with emphasis on normal blood smears and common changes seen during disease stages of the domestic animals. Prequisites: ATE1110, 1211; corequisite: ATE 2638L. (6 hour lab)

ATE2638L

Animal Lab

Procedures 1 Laboratory 2 credits This course is designed to acquaint the student with clinical laboratory proce-

dures covered in the Animal Laboratory Procedures 1 course. Areas of emphasis include hematology, coagulation and parasitology as well as general laboratory etiquette. Corequisite: ATE 2638. (4 hour

ATE2639

Animal Lab

Procedures 2 3 credits

This course serves as a continuation of Animal Laboratory Procedures 1 and covers immunology, liver function and diagnostic testing for liver abnormalities, kidney function and testing used in disease states, urinalysis, pancreatic evaluation; normal and abnormal exfoliative cytology; and the evaluation of endocrine disorders. It also will include principles of serological testing and microbiological methods and protocols. Prerequisites: ATE 2638, 2638L; corequisite: ATE 2639L. (3 hour lecture)

ATE2639L **Animal Lab**

Procedures 2 Laboratory 2 credits

This course provides experience in the practical applications discussed in Animal Laboratory procedures 2. It also will include principles of serological testing and microbiological methods and protocols as well as dentistry for the veterinary technician. Prerequisites: ATE 2638, 2638L; corequisite: ATE 2639. (4 hour lab)

ATE2652L Introduction to Clinical Practice 2

1 credit

The clinical application of basic veterinary radiology and surgical nursing skills will be the primary focus of this practicum. The student will demonstrate skills under supervised instruction. Prerequisite: ATE 1110, 1650L; corequisite: ATE 1941. (1 hour lab)

ATE2655L Animal Nursing

& Medicine Laboratory 1 2 credits This course is designed to acquaint the student with exam room and restraining techniques, anesthesia and surgical protocols and diagnostic imaging procedures used in veterinary hospitals. (4 hour lab)

ATE2661

Large Animal Diseases 1 credit

This course is designed to acquaint the student with the fundamentals of preventative medicine and with the common disease seen in the large animal species. Aspects of equine, bovine, ovine and porcine diseases and common treatments will be emphasized. Prerequisites: ATE 1110, 2636, 2636L; corequisite: ATE 2611. (1 hour lecture)

ATE2671

Lab Animal Medicine 2 credits

This course will identify technical aspects of laboratory animal care, including restraint and handling, common diseases, and nutrition. The animals studied include rabbits, rats, mice, guinea pigs, hamsters and primates. (2 hour lecture)

ATE2710

Animal Emergency

Medicine 2 credits

This course is designed to acquaint the student with fundamentals of emergency veterinary medicine, including veterinary first aid, toxicology and specialized medical techniques and procedures. Prerequisites: ATE 1110, 1211; corequisites: ATE 2611, 2631, 2655L. (2 hour lecture)

ATE2722

Avian &

Exotic Pet Medicine 2 credits

This course describes the exotic animal and avian medical care. Veterinary technicians will understand the idiosyncrasies of these species in order to become proficient and useful to the exotic and avian practitioner. (2 hour lecture)

ATE2942

Veterinary Clinical

Experience 3 2 credits

This course provides clinical experience for the student under the supervision of a veterinarian. The competencies stated in Veterinary Clinical Experience 1 and 2 will be reinforced and additional skills in advanced veterinary technology will be demonstrated and experienced. The student receives no monetary compensation for the three clinical hours. Prerequisite: ATE 1941; corequisites: ATE 2631, 2655L. (3 hour clinic)

ATE2943

Veterinary Clinical

Experience 4 3 credits

This course consists of supervised clinical experience in a work place approved by the college. All aspects of critical and noncritical care will be observed and performed under the supervision of a veterinarian. The areas of competency of Veterinary Clinical Experience 1, 2 and 3 will be reinforced. The student receives no monetary compensation for the nine clinical hours. Prerequisite: ATE 2942; corequisites: ATE 2050L, 2612, 2614. (9 hour clinic)

HOS1010

Horticulture 1

3 credits

Basic theories of plant nutrients, soil types, and survey of various fields in ornamental horticulture. Laboratory fee. (3 hour lecture)

HOS1011

Horticulture 2 3 credits

The maintenance and management aspects of horticultural business (nursery facility or landscape maintenance and design) including irrigation systems, plant grown facilities, plant propagation equipment, and landscape maintenance equipment. Hands-on practice in programming of plant production crops and nursery design in our nursery. Prerequisite: HOS 1010. Laboratory fee. (3 hour lecture)

IPM2112

Principles of

Entomology 3 credits

Those insects, mites, etc. that affect ornamental plants will be studied. Particular attention will be given to those environmental factors that may predispose the plant to infestation. Methods of prevention, eradication, and control will be given for each organism. In as much as possible, these pests will be studied first-hand. A.S. degree credit only. (3 hour lecture)

IPM2301

Pesticide Applications 3 credits

In this course, students will learn how to use pesticides in a safe manner to humans, animals, the plants being treated, and the environment in general. How to read a pesticide label, where to find information such as dosage, pesticide suitable for the plants, antidotes, application rates, LD-50 levels, state and federal regulations concerning pesticide application, re-entry times, and safety equipment will be covered. Students will also be taught how to calibrate, fill, spray, empty, and clean various types of spray equipment as well as the proper manner of pesticide disposal and the effects of pesticide usage upon the environment.A.S. degree credit only. (3 hour lecture)

IPM2635

Introduction to Plant Pathology

3 credits

In this course diseases that affect plants will be studied. These will be looked at in conjunction with environmental factors contributing to a plant's susceptibility to a particular disease. Methods of prevention, eradication, and control will be given for each specific disease. A.S. degree credit only. (3 hour lecture)

LDE2000

Planting Design 1

4 credits

Basic principles of design, on-the-job sketching and plan presentation as used by nurseries. Prerequisite: ORH 1510. Laboratory fee. (2 hour lecture; 4 hour lab)

LDE2310

Irrigation Design & Maintenance

3 credits

The design, maintenance, and installation of nursery and landscape irrigation systems. All types of nursery systems will be covered including field, shade house, and mist. Both sprinkler and low volume (drip) systems will be surveyed for appropriateness in nursery and landscape uses. Includes occasional weekend hands-on activities (3 hour lecture)

ORH1251

Nursery Practices 1 3 credits

The techniques and practices in commercial production of ornamental plants. Emphasis on types of nurseries. Prerequisite: HOS 1010. Laboratory fee. (2 hour lecture; 2 hour lab)

ORH1510

Landscape Plant

Identification 1 3 credits

Designed to familiarize students with the identification and usage of plants used in the horticultural trade in South Florida. Subject matter includes trees, shrubs, and flowering plants for both interior and outdoor use. (3 hour lecture)

ORH1511

Landscape Plant Identification 2

Identification 2 3 **credits** The identification and classification of plants

used in the horticulture industry in South Florida. Prerequisite: ORH 1510. (3 hour lecture)

ORH1840C

Landscape Construction 2 credits

The analysis of landscape site, reading blueprint, site preparation for landscape installation, and hardscape construction including irrigation, wood, and concrete structures. Taught from a hands-on perspective; students will apply principles of landscape construction to site situations and be able to lay out all aspects from the first visit to the installation of plants. Occasional Saturday activities. Laboratory fee. (4 hour lab)

ORH2230

Exterior Plant

Usage and Maintenance 3 credits

This course emphasizes the maintenance and installation of exterior plants in the South Florida Environment. Installation procedures for bedding plants, shrubs, trees/palms, and vines will be covered as well as their standard maintenance procedures. Students will be required to become familiar with all plants and equipment names as well as their uses. A.S. degree credit only. (3 hour lecture)



ORH2277 **Foliage Plant** Production

3 credits

This course will emphasize the naming of foliage plants commonly used in South Florida. Plant propagation techniques such as the taking of cuttings, divisions, and seeds will be taught, along with aseptic and meristem culture. The various planting techniques will be presented. Students will be required to look for insect diseases, and other cultural problems associated with foliage production and learn how to combat these problems. Environmental factors affecting foliage plants such as water, humidity, light, and temperature will be studied in relation to growing foliage plants specifically in South Florida.A.S. degree credit only. (3 hour lecture)

ORH2835C

Computer-Aided Landscape Design 1

2 credits Students will learn CAD fundamentals and then create computer generated drawings. Using these fundamentals and landscape design concepts, students will generate both landscape and hardscape aspects of residential landscape designs. A combination lecture/ lab course. Prerequisites: CGS 1060 (or equivalent) and working Knowledge of landscape plants or permission of instructor. (1 hour lecture; 2 hour lab)

ORH2837C

Computer-Aided Landscape

Design 2 Students will carry out landscape design projects with CAD as required in a landscape design business. Appropriate landscape design principles will be applied to landscape projects and presented in CAD-generated drawings. A combination lecture and lab course. Prerequisites: ORH 2835C, CGS 1060 (or equivalent) and working knowledge of landscape plants or permission of instructor. (1 hour lecture; 2 hour lab)

ORH2932 Special Topics

in Landscaping 1 credit

Special topics in landscaping offers horticulture students the opportunity of enriching their education with aspects of the field not covered in the A.S. program. Topics will be offered in the areas of irrigation, appropriate landscaping, recent innovations, pests and pesticides, etc.A.S. degree credit only. (1 hour lecture)

ORH2949

Landscape Technology

Internship 1-6 variable credits Offers practical work experience in ornamental horticulture. A work program tailored to the student's specialty in the program will be designed by the ORH 2949 Coordinator. Prerequisite: 30 credits in Landscape Technology. (12 hour lab)

Amprican & Afro-American Studies

AMS1031

American Culture

3 credits

An interdisciplinary approach to the study of American society, culture, and basic institutions, emphasizing elements which may facilitate the acculturation process of non-native Americans. (3 hour lecture) Anthropology

ANT2100

Introduction to

Archaeology 3 credits

The nature of archaeology and archaeological investigation. Archaeological site survey and excavation procedures are presented along with the history of archaeology as a discipline. A survey of prehistoric development from the paleolithic through the rise of civilization is also included. (3 hour lecture)

ANT2140

World Prehistory 3 credits

The role of archaeology/anthropology in carrying out prehistoric research. The development of prehistoric social economic, political, communication, religious, and ideological systems around the world. The rise of civilizations in the old and new worlds is examined with particular emphasis on Mesopotamia, Egypt, India, China, Mesoamerica, and South America. (3 hour lecture)

ANT2410

2 credits

Introduction to

Cultural Anthropology 3 credits

The nature of culture, personality, and social organizations. Emphasis is on the customs of pre-literature people. (3 hour lecture)

ANT2511

Introduction to

Physical Anthropology 3 credits

Man as a biological unit in the animal kingdom. The human fossil record, living primates, the criteria of race and races of man; principles of biological evolution and human genetics. (3 hour lecture)

Architecture

ARC1113

Sketchbook Studies 3 credits

This course focuses on the development of perception and awareness of major architectural monuments, historical sites, and public spaces through two-dimensional architectural renderings performed in situ. Freehand perspective drawings will be created in black and white, with color as applicable. Mediums of presentation will vary from pencil to pen. (3 hour lecture; 2 hour lab)

ARC1115

Architectural

Communications 1

2 credits

Exercises in freehand drawing, sketching and linear perspective are designed to increase the student's awareness of the architectural environment. This is accomplished through a series of form studies of nature, architectural forms, and abstract elements of composition. Corequisite: IND 1020. Laboratory fee. (1 hour lecture; 2 hour lab)

ARC1126

Architectural Drawing 1 4 credits

Exercises in the visualization and drafting of architectural objects and construction conditions using orthographic projection, isometric and sectional drawings as an expression of architectural communication. Includes plans, elevations, details, schedules, and sections of a wood frame and masonry structures. Prerequisite: BCN 1251 One year high school architectural drafting. Laboratory fee. (2 hour lecture; 4 hour lab)

ARC1128

Architectural Drawing 2 4 credits

A simulation of an actual architectural drafting room. The instructor issues preliminary design drawings from which the student prepares working drawings. The problems presented have varied materials and structural systems, differing occupancies, etc., offering a series of new experiences in architectural drawing. Prerequisite: ARC 1126. Laboratory fee. (2 hour lecture; 4 hour lab)

ARC1131

Architectural Presentation

3-4 variable credits

Discussion, demonstration and application of multimedia used within the profession to present architectural and interior design subjects. Topics include, but are not limited to, pencil, ink, colored pencil, markers, watercolor, airbrush, model building, photography and portfolio layout. In depth training will be provided in one or more of the media. Prerequisites: ARC 1115, 1301. Laboratory fee. (2 hour lecture; 2-4 hour lab)

ARC1301

Architectural Design 1 4 credits

Introductory course to architectural design, its scope, methods and vocabulary interfacing graphics and design as a means towards an awareness and understanding of basic organizational principles. Design concepts analyzed through graphical representation and modeling. Pre/corequisite: ARC 1115. Laboratory fee. (2 hour lecture; 4 hour lab)

ARC1302

Architectural Design 2 4 credits

A continuation of ARC 1301, emphasizing the application of ordering concepts, and aspects and determinants of form and space. An individual design process is developed by the student. Pre-/Co-Requisites: ARC 1126, 2701; Prerequisite: ARC 1301. Laboratory fee. (2 hour lecture; 4 hour lab)

00 2008-10 CATALOG

ARC1949 Co-op Work

Experience 1: ARC 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Prerequisite: 2.0 GPA, approval of Co-op Program Director and a minimum of 6 credits in field or approved work experience. (3 hour lecture)

ARC2052

Architectural Computer Techniques

1 credit An introduction to computer-aided architecture, including basic computer concepts, current hardware and software and their application in the solving of architectural problems. Prerequisite: ARC 1126. Laboratory

ARC2053

Architectural Computer

fee. (1 hour lecture)

4 credits Applications Applications of software and computer lan-

guages in the fields of architecture, building construction and interior design. Corequisite: ARC2052. Laboratory fee. (2 hour lecture; 4 hour lab)

ARC2056

Computer Aided

Architectural Presentation 4 credits This course is designed to introduce the student to the concept of three-dimensional modeling and rendering for the purpose of producing an animated architectural presentation. Laboratory fee. (2 hour lecture; 4 hour lab)

ARC2171

Computer Aided

4 credits Computer-aided drafting as it applies in the fields of architecture and interior design using office simulation. Emphasis is on the production of computer-aided drafting of working drawings involving different types

of structure. Prerequisite: ARC 1126 or 2461.

Laboratory fee. (2 hour lecture; 4 hour lab)

ARC2172 **Computer Aided**

4 credits Drafting 2

This course is designed for students with previous computer-aided design knowledge. Students will use both 2-dimensional and 3-dimensional CAD software to further develop their abilities to apply CAD techniques to the solution of architectural, engineering, and interior design problems. Prerequisite: ARC 2171. Laboratory fee. (2 hour lecture; 4 hour lab)

ARC2201

Theory of Architecture 3 credits

An introduction to the meaning of Architecture to society, the foundation theories of architecture and an exposure to the ways and means of the creative process. Prerequisite: ARC 1115. (3 hour lecture)

ARC2303

Architectural Design 3 5 credits

Integration of the natural and built environment with physiological, functional, organizational, spatial and environmental forces. Prerequisites: ARC 1302 and 2461. Laboratory fee. (2 hour lecture; 6 hour lab)

ARC2304

Architectural Design 4 5 credits

A continuation of ARC 2303. Introduction to programming and design methods in architecture. Applications of building technology in the design process. Overview of computer applications in design. Prerequisite: ARC 2303; pre/corequisites: ARC 2053, 2681. Laboratory fee. (2 hour lecture; 6 hour lab)

Architectural Materials

and Construction 1 4 credits An introduction to basic materials and meth-

ods of building construction. Emphasis is on wood, concrete, unit masonry, and light steel construction. Laboratory projects may include working drawings interpretation, sketching construction details, or field trips to construction sites and fabricant plants. Designed primarily as the initial materials and methods course for architectural transfer students. Prerequisite: ARC 1126 or BCN 1251. Laboratory fee. (2 hour lecture; 4 hour lab)

ARC2580

Architectural Structures 1 4 credits

A basic structural course, designed primarily for Architectural and Construction majors, covering the fundamentals of statics. Timber design emphasized. Prerequisite: MAC1114; pre-/corequisites: PHY 2053, 2053L and ARC 1126, 2461. Laboratory fee. (3 hour lecture; 2 hour lab)

ARC2581

Architectural Structures 2 4 credits

Fundamentals of structural design: beams, columns, frames, axial force, shear, bending and torsion. Load-deflection behavior and properties of common structural materials. Steel design emphasized. Prerequisite: ARC 2580. Laboratory fee. (2 hour lecture; 4 hour lab)

ARC2681

Environmental Technology 3 credits

An introduction to technology aspects of building design which relates to human comfort, safety, and building performance. Includes a survey of the fundamentals of water supply, waste lines, plumbing equipment, heat and air conditioning; solar applications; and electrical components and equipment in the design and construction of buildings. Prerequisite: ARC 1126. (3 hour lecture)

ARC2701

History of

Architecture 1 3 credits

A general survey of architecture from primitive times through the 18th century including an integration of art forms, structural forms and ornamental forms used in various cultures of the world during those times. (3 hour lecture)

ARC2702

History of

Architecture 2 3 credits

A general survey of architecture from the 19th century through the present, including an integration of art forms, structural forms, and ornamental forms used in various cultures of the world during these times. (3 hour lecture)

ARC2765

An Introduction

to: Cities of the World 3 credits

This course is a comparative study of contemporary cities industrialized, developing and redeveloped and/or reconstructed. This course is conducted abroad. Students will learn about improving the quality of our man-made environment by seeing first-hand, positive progress towards civilizing cities of the world. Separation of pedestrian and traffic ways, and the amenities which result, will be a major element of study Assiduous use of the natural environment will be observed and studied. (3 hour lecture)

ARC2767

Architectural History:

Urban Spaces 3 credits

Studies in situ of major urban spaces, with accompanying critical analyses of those spaces. An historical overview of the architecture of the places and spaces studied, with specific attention given to the ambiance, color, light, texture, and patterns, will be presented. The history of the community activities occurring in the spaces will be further analyzed, with appropriate urban and regional planning evaluations. Principles of positive planning will be studied, with the intention of developing knowledge of urban planning process and practice. (3 hour lecture)

ARC2949 Co-op Work

Experience 2: ARC

3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Prerequisite: 2.0 minimum GPA, approval of Co-op Program Director and completion of ARC 1949. (3 hour lecture)



Art

ARH1000

Art Appreciation 3 credits
The role of art in everyday living in the

home, the school and the community. A lecture course illustrated with films and slides. (3 hour lecture)

ARH1006

Visual Fundamentals 1 3 credits

A course designed to introduce the student to the basic principles of aesthetics and visual arts history. The student, at his level, will experience the basic analytical approach to recognizing the formal qualities of works of art. Through discussion, lectures and written assignments the ground work will be put in place for the development of a visual vocabulary and the ability to recognize works and their place in history of visual ideas. The information gained in this course is essential for success in the other course work of the program. (3 hour lecture)

ARH2007

Visual Fundamentals 2 3 credits

A second year course designed to continue with the information presented in the first year, expanding on it and adding more complex aspects of those areas covered. Of particular importance during this period are the completion of a professional portfolio and the preparation of works for exhibition purposes. (3 hour lecture)

ARH2050

Art History 1

3 credits

A world survey of the visual arts from prehistory to 800 A.D. (3 hour lecture)

ARH2051

Art History 2

3 credits

A world survey of the visual arts from 800 to 1850 A.D. Prerequisite: ARH 2050. (3 hour lecture)

ARH2402

Art History 3 3 credits

A world survey of modern visual arts from 1850 A.D. - present. Prerequisite: ARH 2051. (3 hour lecture)

ARH2740

Cinema Appreciation 3 credits

An analysis of the cinema as an important social force and an artistic medium. Significant American, British, and foreign language films will be shown and discussed. Prerequisite: HUM 1020. Special fee. (2 hour lecture; 2 hour lab)

ART1201C

Basic Design 3-4 variable credits

This introductory course is designed to familiarize students with the basic elements and principles of design and to give hands-on opportunity to transform visual and experiential information into basic forms. Creative individual thinking and image making and

successful problem solving both aesthetically and technically are ultimate goals. (1-2 hour lecture; 4 hour lab)

ART1202C

Two-Dimensional

Design 3-4 variable credits

This course is designed to give students an understanding of advanced concepts of two dimensional design and to give hands on opportunity to transform visual and experiential information into two-dimensional form. Creative individual thinking and image making and successful problem solving both aesthetically and technically are ultimate goals. (1-2 hour lecture; 4 hour lab)

ART1203C

Three Dimensional

Design 3-4 variable credits

This course is designed to give students an understanding of the concepts of three-dimensional design and to provide hands-on opportunity to transform visual and experiential information into three-dimensional form. Creative individual thinking and image making and successful problem solving both aesthetically and technically are ultimate goals. Self-evaluation and safety skills will also figure prominently. Prerequisite: ART 1202C. (1-2 hour lecture; 4 hour lab)

ART1205C

Color and

Composition 1 3-4 variable credits

ART 1205C is a studio art course that is focused on learning the theory and practice of color mixing and compositional arrangement. The course will examine the various interactions of color and their creative application so that the student may use color more effectively in fine arts and applied design. (1-2 hour lecture; 4 hour lab)

ART1300C

Drawing 3-4 variable credits

Basic problems in freehand drawing, including perspective, still-life and landscape. Emphasis is on developing a sense of structure through line, form and texture. (1-2 hour lecture; 4 hour lab)

ART1330C

Figure Drawing 3-4 variable credits Drawing and painting from the live model with emphasis on structure, movement and expression. Laboratory fee. (1-2 hour lecture; 4 hour lab)

ART1803C Workshop for

Art Research and

Practice: Studio 6 credits

Small enrollment sections. Interdisciplinary, team taught, introductory studio experience in a wide variety of media. In-depth exploration of creative processes, principles of artistic integrity, and the nature or artistic meaning. Concepts in two-dimensional and three-dimensional design will be explored through studio experience. (12 hour lab)

ART1949

Co-op Work

Experience 1: ART 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

ART2114C

Advanced Ceramics

3-4 variable credits

Advanced work in ceramics. Emphasis placed on individual concepts and their application in ceramics. May be repeated for credit. Prerequisites: ART 2750C, 2751C. Laboratory fee. (1-2 hour lecture; 4 hour lab)

ART2150C

Jewelry and

Metalsmithing 1

4 credits

An introduction to creative design as applied to jewelry, flatware, and hollowware forms. Prerequisite:ART 1202C or 1300C. Laboratory fee. (2 hour lecture; 4 hour lab)

ART2151C

Jewelry and

Metalsmithing 2

4 credits

Advanced techniques in jewelry making and metalsmithing. Prerequisite: ART 2150C. Laboratory fee. (2 hour lecture; 4 hour lab)

ART2158C

Advanced Metals 4 credits

Individualized instruction in metal forming specifically oriented toward the students aesthetic concerns. May be repeated for credit. Prerequisites: ART 2150C, 2151C. (2 hour lecture; 4 hour lab)

ART2301C

Drawing 2 3-4 variable credits

In this course students will execute drawings in various media, working with the figure or from various assigned drawing problems which are more complex and incorporate other design possibilities. Assignments in drawing will go beyond the realistic or literal and will incorporate media not usually used such as painting, collage, mixed media, and found objects. (1-2 hour lecture; 4 hour lab)

ART23020

Advanced Drawing 3-4 variable credits An explanation of varied approaches to drawing through studio problems. May be repeated for credit. Prerequisites: ART 1300C, 1330C. Laboratory fee. (1-2 hour lecture; 4 hour lab)

ART2400C

Printmaking 1 3-4 variable credits

Basic techniques of printmaking including relief prints (wood cut and wood engraving), intaglio (dry point and etching) and lithography. Prerequisite: ART 1202C or 1300C. Laboratory fee. (1-2 hour lecture; 4 hour lab)

ART2401C

Printmaking 2 3-4 variable credits Advanced techniques in printmaking. Prerequisite: ART 2400C. Laboratory fee. (1-2 hour lecture; 4 hour lab)

ART2402C

Advanced

Printmaking 3-4 variable credits Individualized instruction on printmaking concepts specifically oriented toward the student's aesthetic concerns. May be repeated for credit. Prerequisites: ART 2400C, 2401C. Laboratory fee. (1-2 hour lecture; 4 hour lab)

ART2500C

Painting 1 3-4 variable credits Studio problems in painting involving contemporary styles, techniques and materials. Prerequisite: ART 1202C or 1300C. (1-2 hour lecture; 4 hour lab)

ART2501C

Painting 2 3-4 variable credits Advanced techniques in painting. Prerequisite: ART 2500C. (1-2 hour lecture; 4 hour lab)

ART2502C

Advanced Painting 3-4 variable credits Individualized instruction in painting concepts specifically oriented to the student aesthetic concerns. May be repeated for credit. Prerequisites: ART 2500C, 2501C. (1-2 hour lecture; 4 hour lab)

ART2600C

Computer Art 3-4 variable credits
This course is an introduction to basic theory
and skill techniques of visual communications using computers. It gives students a
basic understanding of technical devices for
the electronic production of visual images.
Prerequisites: ART 1201C, ART 1300C. Special
fee. (1-2 hour lecture; 4 hour lab)

ART2601C

Intermediate

Computer Art 3-4 variable credits
An intermediate computer art course focusing on the integration of computer technology with traditional design and fine art media such as illustration, painting, printmaking and photography. Prerequisite: ART 2600C. (1-2 hr lecture; 4 hour lab)

ART2602C

Advanced

Computer Art 4 credits
An advanced computer art class which focuses on new and emerging computer technology utilizing multiple platforms to produce advanced computer art portfolio assignments

in illustration, fine art, 2D animation and digi-

tal photography. (2 hour lecture; 4 hour lab)

ART2701C

Sculpture 1 3-4 variable credits An introduction to sculpting techniques and materials. Prerequisite: ART 1202C or 1300C. Laboratory fee. (1-2 hour lecture; 4 hour lab)

ART2702C

Sculpture 2 3-4 variable credits Advanced sculpturing techniques. Prerequisite: ART 2701C. Laboratory fee. (1-2 hour lecture; 4 hour lab)

ART2703C

Advanced Sculpture 3-4 variable credits Individualized instruction in sculptural concepts specifically oriented to the student's aesthetic concerns. May be repeated for credit. Prerequisite: ART 2701C, 2702C. Laboratory fee. (1-2 hour lecture; 4 hour lab)

ART2750C

Ceramics 1 3-4 variable credits Basic techniques in poetry designed - forming, decorating, glazing and firing. Prerequisites: ART 1202C or 1300C. Laboratory fee. (1-2 hour lecture; 4 hour lab)

ART2751C

Ceramics 2 3-4 variable credits Advanced techniques in pottery design and preparation. Prerequisite: ART 2750C. Laboratory fee. (1-2 hour lecture; 4 hour lab)

ART2802C

Visual Arts

Workshop 1-4 variable credits Special Studio Topics including methods, materials and theory related to specific studio processes. Permission of department chairperson. May be repeated for credit. (2-8 hour lab)

ART2938

Visual Fundamentals 3 3 credits

A third year course designed to continue and expand upon the information presented in the first two years of study. The areas of investigation are more complex and directed toward a more individualized attention by disciplines. Professional preparation is pursued in portfolio preparation, exhibition preparedness, and art as business investigations. Curriculum is closely aligned with the student's individual course of study. (3 hour lecture)

ART2949

Co-op Work

Experience 2: ART 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

ART2950

Portfolio Preparation - Art 3 credits Provides students with knowledge and skills to compile a portfolio which prepares them for a college or professional career. Course content focuses on individual development through the use of varied media and styles. Emphasis is placed on selection, evaluation,

and presentation. May be repeated for credit. (6 hour lab)

ART2951

Seminar in Spanish Art 3 credits

A combination of class preparation plus travel to include sketching, painting, native crafts, etc. Variable content depends on areas visited. Prerequisite: Permission of Department Chairperson. Offered through Overseas Study Program. (3 hour lecture)

Asian Language

CHI1120

Elementary Mandrin

Chinese 1 4 credits

An integrated (multi-media) approach to acquire proficiency in the basic skills of Mandarin Chinese - listening/understanding, speaking, reading, writing, and cross-cultural awareness. Emphasis on practical vocabulary and accurate pronunciation. Practice in class and laboratory in understanding and using the spoken language; reading and writing with progressive grammatical explanations. (4 hour lecture)

Banking

BAN1004

Principles of Banking 3 credits

A comprehensive introduction to banking in today's economy. The language and documents of banking, teller functions, deposit function, trust services, bank bookkeeping, bank loans, investments and the bank's role in the community are some primary topics. A.S. degree credit only. (3 hour lecture)

BAN1013

Negotiable Instruments and the Payments Mechanism 3 credits

This course provides students with an introduction to the nature of a negotiable instrument and how it is collected through the payments mechanism. Content includes the form of negotiable instrument, the rights and responsibilities imposed on the parties who participate in the collection of a negotiable instrument during its journey through and payments mechanism and the relationship between the drawee bank and its customer, the drawer. Prerequisite: BAN 1800. A.S. degree credit only. (3 hour lecture)

BAN1155

International Banking 3 credits

The basic framework and fundamentals of international banking: how money is transferred from one country to another, how trade is financed, what the international agencies are and how they supplement the work of commercial banks, international lending and how money is changed from one currency to another. Also included are discussions of basic letter of credit, collections and the Eurodollar market.A.S. degree credit only. (3 hour lecture)



BAN1156

Letters of Credit 3 credits

Designed to teach the use of letters of credit and the examination of related documents. The subjects covered include shipping documents, mechanics of letters of credit, payment and reimbursement, and document examination. Designed for credit personnel; management trainees; branch managers; letters of credit personnel. A.S. degree credit only. (3 hour lecture)

BAN1231

Introduction to Commercial Lending

This course provides the knowledge and skills required to identify the credit needs of various types of small business customers and to sell a "total banking" relationship. It also prepares participants to assess the customer's credit worthiness by examing income state-

ments and balance sheets. This course covers both the technical side of small business lending and the interpersonal skills required to be a successful loan officer. Prerequisites: ACG 2021, 2021L. (3 hour lecture)

BAN1240

Installment Credit 3 credits

The pragmatic "how-to" details of installment credit. Topics covered are principles of credit evaluation, open-end credit, marketing bank services, collection policies and procedures, legal aspects, financial statement analysis, direct and indirect installment lending, leasing and other special situations, installment credit department management, insurance and rate structure yields. Designed for branch personnel; and management trainees. A.S. degree credit only. (3 hour lecture)

BAN1241

Bank Cards 3 credits

This course presents an overview and update of the bank card industry. The development of the card, operational aspects, legal and regulatory issues, and implications for the future of the card are discussed in depth. A.S. degree credit only. (3 hour lecture)

BAN1400

Trust Functions and Services

An overview of many generally accepted principles of the law of estates, trusts and agencies as it takes the student on a step-by-step study of trust functions and services encountered in the daily operation of a trust department. The appendices of the text contain illustrative instruments including a will, trust agreement, and investment management agency agreement. Designed for entry level trust employees; non-trust personnel at supervisory officer trainee levels or above. Principles of Banking is recommended as a prerequisite. A.S. degree credit only. (3 hour

lecture) BAN1411

Savings and

Time Deposit Banking 3 credits

The historical development of savings institutions and the basic economic functions of the

savings process. A review of the economics of the savings process in order to clarify important differences between financial savings by individuals or organizations and real savings that appear as capital formation. Different types of financial savings are reviewed in order to describe the system of financial flow from income to capital investment. Designed for entry-level to 5 years experience. A.S. degree credit only. (3 hour lecture)

BAN1425 Selling Bank

3 credits

Services 3 credits

Recognizing and meeting bank customer needs through checking accounts, savings services, loans to individuals, safe deposits, travelers checks and cross-selling. Identification of the services their banks offer the scope and advantages of these banking services, customer needs based on a bank transaction or conversation with the customer and the appropriate service to the perceived customer need. Designed for tellers and new accounts personnel. A.S. degree credit only. (3 hour lecture)

BAN1744

BankSim 3 credits

Through the use of a sophisticated computer model, participants actually "run" in a competitive society and a changing economy-a \$500 million commercial bank. Designed for operations, long term financial strength and asset utilization. A.S. degree credit only. (3 hour lecture)

BAN1782

Bank Investments 3 credits

The nature of the more important bank investments, to demonstrate the relationship of investment management to other functional areas of the bank, and to discuss the factors that affect investment strategies and decisions. Emphasis is on the basic principles with which investment personnel should be familiar-fundamentals such as the nature of risk, liquidity and yield; how each is measured and how they are related. A.S. degree credit only. (3 hour lecture)

BAN1800 Law and

3 credits

Banking 3 credits

An introduction to basic commercial law and its specific relationship to banking and bank transactions. Topics include contracts; agency and partnerships; personal property and sales; the Uniform Commercial Code; negotiable instruments and bank collections; and secured financing. A.S. degree credit only. (3 hour lecture)

BAN1811

Federal Regulation of Banking

Provides a comprehensive treatment of the "why" and "what" of federal bank supervision. Topics include agencies regulating banks, bank charters, bank reports, and examinations, federal limitations on banking operations, and the regulation of bank expansion.

Emphasis is on supervision rather than the role of the federal government as it indirectly influences the operations of banks through fiscal and monetary policy decisions. A.S. degree credit only. (3 hour lecture)

BAN1949

CO-OP WRK

EXP 1 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

BAN2135

Bank Accounting 3 credits

This course is designed to help the bank employee understand the elements of accounting as they relate to and are applied in the banking environment. Prerequisite: ACG 2001 or ACG 2021. A.S. degree credit only. (3 hour lecture)

BAN2210

Analyzing Financial Statements

3 credits

Techniques for the evaluation of financial condition and operating performance of a modern business enterprise. The course is divided into four parts: Financial Statement Analysis and Accounting; Financial Statements and Business Funds Flow; Tools of Financial Statements Analysis; and The Technique of Financial Statements Analysis. A.S. degree credit only. (3 hour lecture)

BAN2211

Applied Financial

Statement Analysis 3 credits

This course will emphasize the fundamental techniques of financial statement analysis via the use of case studies to illustrate its use and implementation. Building upon a review of accounting concepts, the course will cover the analysis (including ratio analysis), and interpretation of financial accounting information including the balance sheet, income statement and statement cash flows. Prerequisite: BAN 2210. Special fee. (3 hour lecture)

BAN2253

3 credits

Residential Mortgage

Lending 3 credits Introduction to the residential mortgage

lending process, functions and participants. General principles in loan origination, underwriting and closing of residential mortgage loans will be covered. Course content will include the mortgage loan process of applying and qualifying for home loan financial and various types of loans available in the market place. A.S. degree credit only. (3 hour lecture)

0**0** 2008-10 CATALOG

BAN2501

Money and Banking 3 credits

A course designed to provide a comprehensive overview of the role of money and the banking industry within the United States and abroad. There is an emphasis on basic concepts in the areas of banking regulations, monetary policy, fiscal policy, interest rates, money creation, and foreign exchange markets. The class is designed for both students who are new to banking, as well as for bankers who need an update on the changes affecting the banking industry. Prerequisite: ECO 2013 (3 hour lecture)

BAN2511

Marketing for Bankers 3 credits

Introduces the basics of bank marketing and provides the information necessary to understand the role of marketing in the business of banking. Builds fundamental marketing skills and demonstrates their application to various levels of business processes. Discusses effective strategic marketing process including research, analysis setting goals and objectives, evaluating marketing mix, implementation and evaluation of marketing plan, and communication of marketing objectives. Prerequisite: MKA 1021 A S. Degree credit only. (3 hour lecture)

BAN2746

Bank Control and Audit 3 credits

Designed to develop an awareness of the basic concepts and processes behind the bank audit function as well as an understanding of the need for internal control in a banking environment. A.S. degree credit only. (3 hour lecture)

BAN2781

Management of

Commercial Bank Funds 3 credits

The sophisticated treatment of a central bank function offers the student an overall treatment of funds management policies and practices conducive to liquefy, safe risks and profitability, with special focus on spread management. Emphasis is on how the banker can successfully apply basic funds management principles to an ever-changing financial environment. A.S. degree credit only. (3 hour lecture)

BAN2784

Trust Management 3 credits

The organization, operation, and services of the trust department. Some specific topics covered in the course are the board of directors; department accounting; trust investments; tax administration; trust automation; employee benefit trust; corporate trust administration; business development; trust profitability; and issues in trust department management. Designed for trust officers. A.S. degree credit only. (3 hour lecture)

BRC1001

Introduction to Banking 3 credits

An introductory course to acquaint students with the banking institutions of the United States, including their financial and organizational structure, regulation, functions and other basic considerations that determine bank policy and the effects of such policy upon the community. (3 hour lecture)

BRC1059

Diversity Awareness

and Customer Service 3 credits

This course will consist of invited speakers on selected topics to address cultural norms and values and the resulting impact on customer service in order to help individuals of different cultures become homeowners. A.S. degree credit only. (3 hour lecture)

BRC1602

Technology Applications

3 credits in Mortgage Financing

With most industries now incorporating technology into all aspects of operations, the mortgage/finance industry is no exception. On the contrary, by automating the mortgage application and underwriting process, mortgage processors and intake professionals have become a mobile industry. Additionally, the competitiveness of the mortgage marketplace dictates that professionals in the industry stay on the cutting edge of technology. Prerequisite: CGS 1060 or obtain a passing score on the Computer Competency Test (CCT). A.S. degree credit only. (3 hour lecture)

BRC2266

Affordable Housing

and Community 3 credits

This course will cover specialized programs that provide financing opportunities to low and moderate-income households. Students will gain exposure to specific tools and techniques to facilitate home ownership, sources of funds, types of mortgages and various community lending product and non-traditional underwriting guidelines and home buyer education and counseling. A.S. degree credit only. (3 hour lecture)

BRC2267

Fair Housing

and Fair Lending 3 credits

This course will cover the legislative policies origins of regulatory and compliance laws, designed to prohibit discriminatory practices in lending, A.S. degree credit only (3 hour lecture)

BRC2268

Mortgage Loan

Servicing and Ouality 3 credits

This course will cover servicing of mortgage loans from the close of the loan until the final payment. The student will be provided with an in-depth study of the actual procedures required in the daily operations of mortgage loan servicing. This course will include a study of the quality control technique and an understanding of the importance of the ethics in mortgage lending. A.S. degree credit only. (3 hour lecture)

BRC2353

Marketing for

Financial Institutions 2 credits

The facts and principles of marketing are set forth in this course. Topic includes: the marketing concept and structure, marketing information and buyer behavior, consumer and intermediate customers' buying behavior, product packaging and branding decisions, consumer and industrial goods, product planning and time-place utility, channels of distribution, promotion, pricing strategy, and developing a marketing program, controlling marketing programs, and the cost-value to society. A.S. degree credit only. (2 hour lecture)

BRC2941

Field Experience

in Mortgage Finance 3 credits

Skills learned in the classroom environment are not only reinforced but become instilled in a student when opportunities in the practical work environment are presented. A.S. degree credit only. (3 hour lecture)

Biochemistry

Introductory Biochemistry 3 credits

This course is a one-semester undergraduate course in which students survey the fundamental components of biochemistry. This course is specifically for students pursuing a bachelor's degree in secondary science education. The goal of this course is to offer students a greater appreciation of the chemistry of biological processes. Corequisite: BCH 3023L. (3 hour lecture)

BCH3023L

Introductory Biochemistry

Laboratory 2 credits

This course is designed to introduce the student to common techniques in biochemistry and biotechnology. Corequisite: BCH 3023. (4 hour lab)

Biological Science

BOT1010

Botany 3 credits

A survey of the plant kingdom based on a detailed study of the morphology, anatomy and physiology of selected representative specimens. Corequisite: BOT 1010L. (3 hour lecture)

BOT1010L

Botany Laboratory Laboratory for BOT 1010. Corequisite:

BOT 1010. Laboratory fee. (2 hour lab)

BOT2150C

Native Plant Identification

and Usage in South Florida 3 credits

Plants native to south Florida are identified and presented by their typical ecological community. Emphasis is primarily upon pineland, tropical hammock, mangrove and costal, Everglades marsh, and cypress swamp communities. Plants appropriate for use in urban landscapes as well as in ecological restorations are covered. A combination lecture and lab course. (2 hour lecture; 2 hour lab)



BOT2153C **Native Plant**

Community Installation and

Management 3 credits The fundamental plant structure of south Florida plant communities as well as their installation and maintenance will be presented. A special focus will be upon the appropriate selection of species and their proper placement by hydro period and substrate. This course will assist those students preparing for careers in ecological restoration and park management. This is a combination lecture and lab course. Prerequisite: BOT 2150C. (2 hour lecture; 2 hour lab)

BOT3015 Survey of

Plant Diversity 3 credits

This course explores the plant kingdom and gives emphasis on structure, function and genetics of plants. This course covers the evolutionary relationships, natural history, ecological adaptations, physiology, morphology and reproductive biology of gymnosperms and angiosperms. (3 hour lecture)

BOT3015L Survey of Plant

Diversity Laboratory 1 credit

This course is designed to provide the necessary laboratory experiments and dissection exercises to supplement/ accompany the BOT 3015 Survey of Plant Diversity lecture course. This laboratory course explores the plant kingdom and gives emphasis on structure, function and genetics of plants. Appropriate dissections and laboratory exercises are designed to explore the fundamental cell and tissue structures of both vascular and non-vascular plants. Prescribed laboratory activities focus on plant morphology, taxonomy, anatomy and physiology of selected representative specimens. Corequisite: BOT 3015 (2 hour lab)

BSC1005

General Education

3 credits

This general education biology course covers basic biological concepts, concentrating on selected principles that help explain molecular biology, evolution, genetics, growth, disease, and the problems of humans in the environment. It is designed to stimulate interest in the variety of life that exists on our planet, help students recognize the factors that provide order in this variety, and involve students in the processes of inquiry, observation, and analysis of biological organization in order to give them a foundation for intelligently interpreting and evaluating biological topics. (3 hour lecture)

BSC1005L **General Education**

Biology Laboratory 1 credit

An optional one-credit lab to provide students with experience in the scientific process. Laboratory fee. (2 hour lab)

BSC1030 Social Issues

in Biology 3 credits

Social Issues in Biology develops in students an understanding and appreciation for living systems (including themselves) and the skills and knowledge needed to address biological issues that are important and relative to their lives and the society in which they live. Such issues include, but are not limited to, the origin of biodiversity, advances in reproductive technology, genetic engineering, scientific ethics, advances in the treatment of disease and genetic disorders, environmental problems and sociobiology. (3 hour lecture)

BSC1050

Biology & Environment

3 credits

This course provides students with an understanding and appreciation of how the natural world functions, how human attitudes and actions alter nature systems, creating environmental problems, and how sustainable approaches may resolve these problems. (3 hour lecture)

BSC1084

Functional Human

3 credits Anatomy

Basic human anatomy for the students in allied health and mortuary science programs. Includes the dynamics of gross and functional anatomy, terminology, body orientation, and systematic relationships. (3 hour lecture)

BSC1949

Co-op Work

Experience 1: BSC 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

BSC2010

Principles of Biology 3 credits

This is the first sequence of two courses that deal with the principles of modern biology. It covers scientific process, the chemistry of life, the basics of metabolism, cell theory, cellular respiration, photosynthesis, classical, and molecular genetics. Pre/corequisites: BSC 2010L, CHM 1045. Special fee. (3 hour lecture)

BSC2010L

Principles of

Biology 1 Laboratory 2 credits

This laboratory course is designed to complement BSC 2010, Principles of Biology 1. It covers the nature of scientific investigation, the chemistry of life, microscopy, cell structure and function, metabolism, and the continuity of life. Corequisite: BSC 2010. Special fee. (4 hour lab)

BSC2011 Principles of

Biology 2 3 credits

This is the second in a sequence of two courses that deals with the principles of modern biology. It covers organic evolution, phylogeny, biological diversity, overviews of plant and animal form and function, behavior, as well as population, community, and ecosystem ecology. Prerequistes: BSC 2010, 2010L; corequisites: BSC 2011L. Special fee. (3 hour lecture)

BSC2011L

Principles of Biology Lab 2

2 credits

This course is intended for majors students and complements the lecture course BSC 2011. As such, it functions to provide majors students with handson experience with laboratory exercises designed to complement the presentation of the principles of biology as they relate to evolution, biological diversity, form and function in plants and animals, ethnology, ecology, and conservation biology. Prerequisite: BSC 2010L; corequisite: BSC 2011. (4 hour lab)

BSC2020

Human Biology:

Fundamentals of Anatomy/

3 credits

Physiology This course provides a basic understanding of the human body, its systems and their functions. It includes the dynamics of physiology, terminology, and physiological relationships of the body systems. (3 hour lecture)

BSC2085

Human Anatomy and Physiology 1

3 credits

The structure and functions of the systems of the human body, emphasizing those aspects most pertinent to students in the nursing and allied health technology programs. Students are strongly recommended to complete CHM1033/1033L prior to taking BSC 2085/2085L. Corequisite: BSC 2085L. Special fee. (3 hour lecture)

BSC2085L

Human Anatomy and

Physiology 1 Laboratory 1 credit Laboratory for BSC 2085. Corequisite: BSC 2085. Laboratory fee. (2 hour lab)

BSC2086

Human Anatomy

& Physiology 2 3 credits

The structure and functions of the systems of the human body, emphasizing those aspects most pertinent to students in the nursing and allied health technology programs. Corequisite: BSC 2086L. Special fee. (3 hour lecture)

BSC2086L

Human Anatomy

& Physiology 2 Laboratory 1 credit Laboratory for BSC 2086. Corequisite: BSC 2086. Laboratory fee. (2 hour lab)

00 2008-10 CATALOG

BSC2250 **Natural History** of South Florida

3 credits

Integrates and correlates certain features of the natural history of South Florida such as its geology, meteorology, flora, fauna, ecology and conservation. (3 hour lecture)

BSC2420C

Biotechnology 1 5 credits

An introduction to the principles of DNA science. The course includes: the chemical and physical properties of nucleic acids (DNA and RNA), cloning, restriction analysis, gene transfer, DNA replication and expression, plasmids and other vectors, transcription and translation, DNA libraries, polymerase chain reaction. Practical applications of biotechnology will be explored. Prerequisites: CHM 1045 and BSC 2010. Special fee. (3 hour lecture; 4 hour lab)

BSC2423C Methods & Applications of Cell Culture &

Protein Biotechnology 4 credits This course addresses the basic methods and principles of cell culture and protein biochemistry necessary for an understanding of the field and effective applications of cell culture and protein biotechnology are explored with hands-on training in plant and mammalian cell culture and protein purification. Prerequisites: BSC 2427, 2427L. Laboratory fee. (3 hour lecture; 2 hour lab)

BSC2426 **Biotechnology Methods** and Applications 1

3 credits

This course addresses the basic principles, concepts and techniques of biotechnology necessary for an understanding of the field, and effective work in a pharmaceuticalbiotechnology-and/or research laboratory setting(s). Practical applications of biotechnology are explored. Prerequisite: Previous knowledge of chemistry and biology strongly recommended; corequisite: BSC 2426L. (3 hour lecture)

BSC2426L **Biotechnology Methods** & Applications 1

Laboratory 2 credits

This laboratory course is designed to complement BSC 2426 Biotechnology Methods and Applications 1. This is a hands-on course that emphasizes the basic laboratory principles, techniques, and instrumentation, necessary for effective work in pharmaceutical, biotechnology, and/or research laboratory settings(s). Prerequisite: Previous knowledge of chemistry and biology strongly recommended. Corequisite: BSC 2426. Laboratory fee. (4 hour lab)

BSC2427

Biotechnology Methods and Applications 2 3 credits

This course addresses advanced principles, concepts and techniques of biotechnology necessary for an understanding of the field, and effective work in a pharmaceuticalbiotechnology-and/or research-laboratory setting(s). The following areas of contemporary biotechnology are covered: forensics, bioremediation, and medical-, animal-, plant-, marine-biotechnology. Prerequisites: BSC 2426, 2426L; corequisite: BSC 2427L. (3 hour lecture)

BSC2427L

Biotechnology Methods &

Applications 2 Laboratory 2 credits This laboratory course is designed to complement BSC 2427 Biotechnology Methods and Applications 2. This is a hands-on course that emphasizes advanced laboratory principles, techniques, and instrumentation necessary for effective work in a pharmaceutical, biotechnology, and/or research-laboratory setting(s). Prerequisite: BSC 2426, 2426L; corequisite: BSC 2427. Laboratory fee. (4 hour lab)

BSC2943L

Bioscience Internship 3 credits

The internship will provide students with hands-on work experience in Bioscience or related industries. The experience readies the individual for their first position in field along with continued attention to and application of skills required to gain employment. Prerequisite: Completion of at least 8 credit hours from Biotechnology, Bioinformatics or Chemical Technology track-specific course sequence. Special fee. (144 hour Internship)

BSC2949 Co-op Work

Experience 2: BSC

3 credits This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

BSC4422

Biotechnology 3 credits

This course will prepare students in the knowledge and proper use of laboratory techniques including but not limited to dissection, preservation, staining and mounting of biological specimens for microscopic examination; the use of quantitative and analytical techniques such as chromatography, spectrophotometry, and electrophoresis; the proper use of laboratory equipment such as centrifuges, balances, and microscopes. Preparing laboratory solutions, reagents, and field laboratory techniques. Special emphasis will be placed on appropriate laboratory safety techniques such as the proper use and disposal of laboratory reagents, materials and biological specimens. (3 hour lecture)

BSC4422L Biotechnology

Laboratory 2 credits

This course provides students with practical, hands-on laboratory experiences to supplement the BSC 4422 course. This laboratory course addresses the proper use of laboratory techniques including but not limited to: appropriate record keeping and experimental design, the use of quantitative and analytical techniques such as chromatography, spectrophotometry, and electrophoresis; the proper use of laboratory equipment such as centrifuges, balances, and microscopes; preparation and measurement of laboratory solutions and reagents; protein/nucleic acid isolation and characterization procedures; and tissue culture techniques. Special emphasis will be placed on revelent laboratory safety techniques and the proper use and disposal of laboratory reagents, materials and biological specimens. Prereqisites: BSC 2010, 2010L, 2011, 2011L, CHM 1045, 1045L, 1046, 1046L, MCB 2013, 2013L, PCB 3060; corequisites: BCH 3023, BSC 4422. (2 hour lab)

MCB2010

Microbiology 3 credits

The identification, morphology and physiology of bacteria, protozoa, fungi, rickettsiae, and viruses, with emphasis on the effects on their activities upon human affairs. Prerequisites: BSC 2010, 2010L; corequisites: BSC 2011L and CHM 1033, 1033L, MCB 2010L Special fee. (3 hour lecture)

MCB2010L

Microbiology Laboratory 2 credits Laboratory of MCB 2010. Corequisite: MCB 2010L. Laboratory fee. (4 hour lab)

OCB1010

Introduction to

Marine Biology 3 credits

An introduction to the biology of the seas. Emphasis is placed on the variety of marine organisms and their structural, physiological, and behavioral adaptations within specific marine environments. Special attention is directed to marine communities, e.g., coral reefs and shallow grass flats, and the factors limiting the distribution of organisms within those communities. Discussions will also be directed towards geological, chemical, and physical characteristics of the world's oceans (3 hour lecture)

OCB1010L

Introduction to

Marine Biology Laboratory 1 credit An optional laboratory class for OCB 1010. This laboratory course stresses understanding, familiarization, and identification of local marine organisms and study of local marine communities through field trips to selected local marine habitats and hands-on laboratory activities. An introduction to field collection methods and various sampling techniques is presented. (2 hour lab)



PCB2033

Introduction to Ecology 3 credits

This course will provide students with an understanding of an appreciation for how organisms relate to one another and their environment at the levels of biological organization from the individual to the biosphere. Prerequisites: PSC 1515 or BSC 2011. (3 hour lecture)

PCB2061

Genetics Biotechnology 3 credits

This course provides an understanding of the mechanisms of transmission of heritable information including classical principles of Mendelian genetic analysis, principles of modern genetic analysis, gene mapping, change and regulation of gene expression. Quantitative genetic analysis, genomics, genetic basis of cell and cancer development will also be explored. Prerequisite: BSC 2010, 2010L. (3 hour lecture)

PCB2340C

Field Biology 3 credits

The plants and animals of South Florida, their natural history and ecological relationships. Some emphasis on basic biological principles as applicable to local phenomena. Field and laboratory work and collection, preservation and identification of local plants and animals will be stressed and at least bimonthly field trips, both marine and terrestrial, will be made. Laboratory fee. (2 hour lecture; 2 hour lab)

PCB3043

Fundamentals of Ecology 3 credits

This course is designed to enable preservice teachers of subject matter content to acquire knowledge, skills and techniques necessary to guide secondary level students to be successful learners. Students will also learn and evaluate the methodology currently available for combining reading instruction with subject matter instruction. Special attention will be given to determining the relationship between the methodology and research-based principles of learning and effective teaching in the area of reading. (3 hour lecture)

PCB3060

Principles of Genetics 3 credits

An introduction to molecular genetics, the mechanisms of chromosomal and cytoplasmic inheritance, cytogenetics, and population genetics, which include mechanism of variation, recombination, mutagenesis and cancerogensis. (3 hour lecture)

PCB4674

Evolution 3 credits

This course is designed to provide students with an understanding of evolutionary theory and its significance to all fields of modern biology. It covers the theory of natural selection, the evidence for evolution, micro evolution, population genetics, speciation, macro evolution, the origin of life on Earth, major evolutionary trends, and evolution of humans and culture. Prerequisites: BSC2010 2011L, PCB3060. (3 hour lecture)

ZOO1010

Zoology 3 credits

A survey of the animal kingdom based on a detailed study of the morphology, anatomy, and physiology of selected representative specimens. Corequisite: ZOO 1010L. Special fee. (3 hour lecture)

ZOO1010L

Zoology Laboratory 1 credit

Laboratory for ZOO 1010. Corequisite: ZOO 1010. Laboratory fee. (2 hour lab)

ZOO3021

Survey of

Animal Diversity 3 credits

This course presents zoology as a scientific discipline, the theory of evolution according to natural selection, the basic principles of zoological nomenclature, taxonomy, and systematic, the basic understanding of the relationships of animals to other organisms and to one another, and our understanding of the nature consequences, and outcome of the global biodiversity crisis. Prerequisites: BSC 2010, 2010L, CHM 1045, 1045L. (3 hour lecture)

ZOO3021L

Survey of

Animal Diversity Laboratory 1 credit This laboratory course complements the

lecture corequisite ZOO 3021, which presents zoology as a scientific discipline, the theory of evolution according to natural selection, the basic principles of zoological nomenclature, taxonomy, and systematics, the basic understanding of the relationships of animals to other organisms, and to one another, and our understanding of the nature, consequences, and outcome of the global biodiversity crisis. This laboratory course provides hands-on experience with the concepts covered in the lecture course. Prerequisites: BSC 2010, 2010L, CHM 1045, 1045L; corequisites: ZOO 3021. (2 hour lab)

Building Construction

BCN1272

Building Construction Plans Interpretation 1

3 credits Develops the ability to interpret working drawings quickly. Emphasis is on architectural and structural details with limited coverage on mechanical and electrical aspects. (3 hour lecture)

BCN1275

Building Construction

Plans Interpretation 2 3 credits Plan interpretation of more complex work-

ing drawings for multistory residential and commercial buildings. Students entering this course must have the ability to read and understand construction working drawings for single family residential construction. Identification of structural systems and their details are emphasized for these more complex buildings. Familiarity with all aspects of these working drawings will be addressed. Prerequisite: BCN 1272 or equivalent work experience. Special fee. (3 hour lecture)

BCN1721

Building Construction

Planning and Cost Control 3 credits A study of time/cost relationship for various building construction operations. Includes pre-planning and continuous scheduling of work flow and comparative analysis of actual and estimated costs for construction projects. Pre/corequisite: ARC 2052. (3 hour lecture)

BCN1930

Building Construction

Special Topics 3 credits An introductory survey course for the stu-

dent presently working in the building construction industry desiring to begin formal study. Subjects discussed include analysis of the building construction industry, building and safety codes, plan interpretation, construction specifications, estimating, management, human relations, job opportunities, wage scales, profits and short and long range opportunities. (3 hour lecture)

BCT1743

Building Construction Law 3 credits

The legal aspects of construction contracts and the responsibilities arising particularly from the field operations. Also includes relationship of the general contractor to owner, architect, and subcontractor; material men and mechanics lien law; bonds; lab or law; and other statues and ordinances regulating contractors. (3 hour lecture)

BCT1750

Building Construction

3 credits A study of building construction financing and related contract requirements. Topics include construction loans, permanent building mortgages, construction bids and contracts, penalty and incentive provisions, progress payments and retention, escalation, escalation provisions, costs extras, performance and bid bonds, company profits, cash flow, and business loans. (3 hour lecture)

BCT1770

Building Construction

Estimating Fundamentals 3 credits An analysis and determination of building construction cost. The classification of materials, labor, and subcontracted work into the smallest manageable units. Development of a simple estimate for a residential structure. (3 hour lecture)

BCT1771

Building Construction

Advanced Estimating 3 credits

Estimating more advanced elements of buildings construction involving commercial buildings. Include indirect and overhead costs, the preparation of bid proposals and related documents. Prerequisite: BCT1770. Special fee. (3 hour lecture)

1 credit

OC 2008-10 CATALOG

BCT2760

Building Code Regulations 3 credits The restrictions and limitations of the various agencies concerned with the building industry. Provisions of the South Florida Building Code are stressed. (3 hour lecture)

Business Law

BUL2130

Legal Environment 3 credits Law in relation to the proper conduct of business including a consideration of the nature and sources of law, its legal environment and history. The topics of business torts, crimes, contracts and forms of organizations are also covered. (3 hour lecture)

BUIL2241

Business Law 1 3 credits Law in relation to the proper conduct of business, including a consideration of the nature and source of law, courts and courtroom procedure, contracts, sales of goods, negotiable instruments and secured transactions. Special

BUL2242

fee. (3 hour lecture)

Business Law 2 3 credits

Emphasis on the laws affecting agencies, the formation and operation of partnership and corporation, personal and real property, insurance, suretyship, estates and bankruptcy, and a general review of government regulations affecting usual business operations. Prerequisite: BUL 2241. Special fee. (3 hour lecture)

Chemistry

Chemistry

CHM1020 **General Education**

A course designed to provide the non-science major with an introductory study of the substances central to our daily lives. There are no prerequisites for this course and it requires a minimum level of math. The basic chemistry of nutrition, medicines, cosmetics, household cleaners and the environment are among the subjects investigated. This course will fulfill the general education physical science requirement for non-majors. It does not serve as a preparation course for CHM1045. Special

fee. (3 hour lecture) CHM1020L

General Education

Chemistry Laboratory 1 credit Laboratory for CHM 1020. Corequisite:

CHM 1020. Laboratory fee. (2 hour lab)

CHM1025

Introductory Chemistry 3 credits

Elementary principles of modern chemistry, including concepts of atomic and molecular structure, chemical bonding, stoichiometry, and the properties of solutions. Required of all students who do not meet the prerequisites for CHM 1045. Pre/corequisite: MAT1033 or acceptable score on the Algebra Placement Test. Special fee. (3 hour lecture)

CHM1025L

Introductory Chemistry Lab 1 credit Laboratory for CHM 1025. Pre/corequisite: MAT 1033 or acceptable score on the Algebra Placement Test; corequisite: CHM 1025. Laboratory fee. (2 hour lab)

CHM1033

Chemistry for

Health Sciences 3 credits

This course emphasizes chemistry topics related to the allied health sciences through study of the essentials of inorganic and organic chemistry and some biochemistry and their applications to physiological functions. Pre/corequiste: MAT 1033; corequisite: CHM 1033L. (3 hour lecture)

CHM1033L

Chemistry for

Health Sciences Lab 1 credit Laboratory for CHM 1033. Corequisite: CHM 1033. Laboratory fee. (2 hour lab)

CHM1045

General Chemistry

and Qualitative Analysis 3 credits First half of the CHM 1045-1046 sequence for science, premedical science and engineering majors. Students in programs requiring both courses must complete the CHM 1045-1046 sequence prior to transfer to a senior institution. Major topics in modern chemistry include: stoichiometry, atomic structure, bonding, thermochemistry, acids and bases, solutions and gas laws. Prerequisite: CHM 1025 or high school chemistry with a grade of C or better; corequisites: CHM 1045L, MAC 1105. Special fee. (3 hour lecture)

CHM1045L

General Chemistry and

Qualitative Analysis Lab 2 credits Laboratory for CHM 1045. Prerequisite: CHM 1025 or high school chemistry with a grade of C or better; corequisites: CHM 1045, MAC1105. Laboratory fee. (4 hour lab)

CHM1046

3 credits

General Chemistry

and Qualitative Analysis 3 credits Second course in the CHM 1045-1046 sequence. Major topics in modern chemistry include: thermodynamics, kinetics, solutions equilibria including acids, bases and other ionic equilibria and electrochemistry. Prerequisite: MAC 1105, CHM 1046L with a grade of C or better; corequisite: CHM 1046L. Special fee. (3 hour lecture)

CHM1046L

General Chemistry &

Qualitative Analysis Lab 2 credits Laboratory for CHM 1046. Prerequisite: CHM 1045, 1045L, and MAC 1105; corequisite CHM 1046. Laboratory fee. (4 hour

CHM1941

Principles & Techniques of Peer Tutoring in Chemistry

Provides an opportunity for outstanding students with at least one semester of general chemistry to assist other students to review and clarify principles and techniques in chemistry. Provides future professionals a chance to sharpen their communication skills. (1 hour lecture)

CHM1949

Co-op Work

Experience 1: CHM 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded in the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact Cooperative Education Office to obtain registration approval. (3 hour lecture)

CHM2110C

Survey of

Quantitative Analysis 4 credits

This course is a one-semester combination lecture-laboratory course covering the theories, calculations, and methodologies used in analytical chemistry. Topics include mathematical treatment of data; aid-bas equilibria; and gravimetric, volumetric, and potentiometric methods of analysis. Prerequisites: CHM 1046, 1046L with a grade of C or better. Special fee. (2 hour lecture; 4 hour lab)

CHM2132C

Basic Chemistry

Instrumentation 3 credits Designed for chemistry students and profes-

sionals who need to learn or refresh their abilities to use common instruments found in chemistry laboratories. Prerequisite: CHM1046 with a grade of C or better. Laboratory fee. (1 hour lecture; 4 hour lab)

CHM2200

Survey of

3 credits **Organic Chemistry**

This one-semester course briefly examines the structure, synthesis, nomenclature and reactivity of selected mono-and-poly-functional organic compounds. Theories that relate the structure of organic molecules to their chemically reactivity will be presented as a unifying principle. Prerequisite: CHM 1046 with a grade of C or higher; corequisite CHM 2200L. (3 hour lecture)

CHM2200L

Survey of Organic

Chemistry Laboratory 1 credit Experiments and exercises will be conducted to introduce students to the basic laboratory techniques that are used in organic chemistry and that re-enforce and illustrate several important topics in organic chemistry. Prerequisite: CHM 1046L with a grade of C or higher; corequisite CHM 2200. Special fee. (2 hour lab)

WWW.MDC.EDU

CHM2210

Organic Chemistry First half of the CHM 2210-2211 sequence. Students should complete the CHM 2210-2211 sequence before transferring to a senior institution. A study of the nomenclature, preparations, reactions and electronic and structural features of alkenes, alkynes, alkyl halides, aromatic hydrocarbons and other organic compounds. Prerequisite: CHM 1046 with a grade of C or better; Corequisite: CHM 2210L. Special fee. (3 hour lecture)

CHM2210L **Organic Chemistry** Laboratory 2 credits Laboratory for CHM 2210. Prerequisite: CHM 1046, 1046L with grades of C or better; Corequisite: CHM 2210. Laboratory fee. (4 hour lab)

CHM2211

Organic Chemistry 3 credits Second half of the CHM 2210-2211 sequence. A study of the nomenclature, preparation, reactions, and electronic and structural features of alcohols, ethers, phenols, aldehydes, ketenes, carboxylic acids, acid anhydrides, amides, esters, and other organic compounds. Prerequisite: CHM 2210 with a grade of C or better; Corequisite: CHM 2211L. Special fee. (3 hour lecture)

Organic Chemistry Laboratory 2 credits Laboratory for CHM 2211. Prerequisites: CHM 2210, 2210L with grades of C or better; Corequisite: CHM 2211. Laboratory fee. (4 hour lab)

CHM2949 Co-op Work

CHM2211L

Experience 2: CHM This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

CHM3120 Introduction to **Analytical Chemistry** 3 credits

This course requires students to examine the theories, calculations, and methodologies used in analytical chemistry. Topics include: acid-base equilibria and titrations; precipitation and complex formation; electrochemistry; oxidation-reduction; spectrophochemical analytical methods; chromatographic techniques; statistical treatment of date; and sampling methods. Prerequisites: CHM 1046, 1046L with a grade of C or better; corequisite: CHM 3120L. (3 hour lecture)

CHM3120L Introduction to **Analytical Chemistry** Laboratory

2 credits Experiments will be performed to introduce students to various laboratory methods used to analyze and quantify representative samples. Prerequisites: CHM 1046, 1046L with a grade of C or better; corequisite: CHM 3120. (4 hour lab)

CHM4604 Intermediate Inorganic Chemistry for Secondary Science Teachers

3 credits This course is designed to expand and deepen the student's knowledge of general inorganic chemistry. Topics covered include: bonding theories, nuclear chemistry, coordination chemistry, chemical periodicity, qualitative analysis, and metal and non-metal chemistry. This course addresses several specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required certification. Prerequisites: CHM 3120, 3120L, with a grade of C or better. (3 hour lecture)

CHM46041. Intermediate Inorganic **Chemistry For** Secondary Science **Teachers Laboratory**

Experiments and exercises will be conducted to strengthen the student's understanding of general inorganic chemistry. This course addresses several specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required certification. (4 hour lab)

CHS2311C **Analytical Chemical**

3 credits

Instrumentation 4 credits An introduction to a variety of chemical instrumentation commonly employed in the chemical and pharmaceutical industries. The course will combine lecture and discussion with laboratory experiences to present the principles of instrumental analysis as well to provide extensive hands-on experience with instrumentation commonly used in the chemical and pharmaceutical industries. Pre/ corequisites: CHM 2200, 2200L, 2110C or CHM 2210, 2210L, 2211, 2211L. Laboratory fee. (3 hour lecture; 2 hour lab)

Chinese Language

Elementary Mandarin Chinese 2

A continuation of Mandarin Chinese 1120. A proficiency-oriented course emphasizing the mastery of the basic skills of the language. (4 hour lecture)

Computer Science & Related Technologies

Introduction to Computer Graphics Programming

4 credits An introduction to the fundamentals of interactive computer graphics. Concepts of systems organization and device technology for display; 2D and 3D viewing and shading and coloring will be introduced in a hands-

on environment. Students are required to design screens and generate the appropriate source code to produce their designs on the computer. Prerequisite: COP 1170, or acceptable score on the Algebra Placement Test. Laboratory fee.A.S. degree credit only. (3 hour lecture; 2 hour lab)

CAP2047

User Interface Design 4 credits

The course will cover designing and developing different interfaces for games. Concepts covered include: using different input/output hardware devices, creating and using existing interfaces for different types of hardware, understanding the limitation of different hardware, and understanding the development process for different systems. Students will work with different interface devices during the development of games, such as: joysticks, game pads, mice, 3D glasses, and motion sensors. Pre/corequisite: COP 2334. Laboratory fee. (3 hour lecture; 2 hour lab)

2 credits

4 credits

Game Development Project 4 credits In this course, students work in teams, emulating the real world game development environment, to create a fully workable game, which is presentable to end users/customers. Students will synthesize all the skills acquired in courses previously taken in the game course sequence. Finished projects will include code structure and documentation. Pre/corequisite: Artificial Intelligence DIG 2626 and User Interface Design CAP 2047. Laboratory fee. (3 hour lecture; 2 hour lab)

CEN1301

Supporting Microsoft Clients 4 credits This course provides the information and skills necessary to implement and maintain a Microsoft client operating system. The student will develop the skills to: install the Microsoft client operating system, install and support hardware devices and drivers, identify and resolve boot process issues, configure desktop settings, configure security settings for Internet Explorer, configure computers to run the Microsoft client operating system in a Windows networking environment, and configure and support computers for mobile computing. A combination of lectures, demonstrations, discussions, online assignments, and hands-on labs are used. Prerequisites: CGS 1060, CEN 1511. Laboratory fee. (3 hour lecture; 2 hour lab)

CEN1304

Managing a Windows Server Environment

4 credits

This course provides the information and skills necessary to implement and maintain a Microsoft server operating system. The student will develop the skills to: install the Microsoft server operating system, manage accounts and resources, maintain server resources, monitor server performance, and safeguard data in a Microsoft server environment. A combination of lectures demonstrations, discussions, online assignments, and hands-on labs are used. Prerequisites: CGS 1060, CEN 1511; corequisite: CEN 1301. Laboratory fee. (3 hour lecture; 2 hour lab)

CEN1511

Networking Technologies 4 credits
This course will provide an introduction to

This course will provide an introduction to the technical areas of network connectivity, data communications, and communication protocols. Emphasis on understanding the foundation of networking technologies and data communication concepts. Topics covered will include an exploration of computer networking development, the OSI reference model, data signaling, data translation, and standards for communications and data transmissions, network topologies and access methods. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

CEN1536 Introduction to

Wireless Networking 4 credits

This course provides the student with a complete foundation of knowledge for entering into or advancing in the wireless networking industry. Topics include: an introduction to wireless LANs; RF theory; spread spectrum technologies; wireless LAN infrastructure devices; antennas and accessories; wireless LAN standards; and wireless LAN organizations to link budget math, troubleshooting, and performing a site survey. This course delivers hands-on training that benefits the novice as well as the experienced network professional. Prerequisites: CGS 1060 and CEN 1511. Laboratory fee. (3 hour lecture; 2 hour lab)

CEN2305

Implementing a

Networking Infrastructure 4 credits
This course will provide the knowledge and
skills necessary to develop a Windows 2000
networking services solution for enterprise
networks. The course focuses on developing strategies for TCP/IP, DHCP, DNS, WINS,
RAS, Remote Authentication Dial-in User
Service (RADIUS), connection manager, routing, multicasting, demand-dial routing, VPN,
IPSec, connection sharing, and proxy server.
Prerequisite: CEN 1304. Laboratory fee. A.S.
degree credit only. (3 hour lecture; 2 hour
lab)

CEN2306

Implementing Directory

Services 4 credits

This course provides the information and skills necessary to successfully plan, implement, and troubleshoot a Microsoft server Active Directory infrastructure. The course focuses on the Microsoft server directory service environment, including forest and domain structure, Domain Name Systems (DNS), site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user, group, and computer account strategies. Prerequisite: CEN 1304. Laboratory fee. (3 hour lecture; 2 hour lab)

CEN2320

Upgrading MCSE Skills 4 credits

This course will provide the information and skills necessary to support Windows-based network environments. This course is intended for Advanced Microsoft Windows professionals with experience planning, implementing, and supporting a Microsoft Window Active Directory service network. This is a performance-based course; designed around the job-related tasks a support professional must perform using new or modified features in the Windows operating system. The objectives will also assist individuals certified as Microsoft Certified Systems Engineers (MCSE) to prepare for certification upgrade exams. A combination of lectures, demonstrations, discussions, online assignments, and hands-on labs are used. This course may be repeated up to (3) times when there has been a significant version update. Prerequisites: CEN 2321; completion of previous version's MCSE Certification or equivalent experience. Laboratory fee. (3 hour lecture; 2 hour lab)

CEN2321

Designing Network Infrastructure and Directory Services 4 credits

This course provides the information and skills necessary to successfully design a Microsoft server Active Directory and network infrastructure. The course focuses on the Microsoft server directory service environment, including meeting the needs of an organization for their: forest and domain infrastructure: site infrastructure; Group Policy structure; administrative structure; physical network; DHCP; network connectivity; name resolution strategy; and network access infrastructure strategies. Prerequisite: CEN 2306. Laboratory fee. (3 hour lecture; 2 hour lab)

CEN2323

Design, Implement, Manage Network Security

(3 hour lecture; 2 hour lab)

Manage Network Security 4 credits
This course provides the information and skills necessary to design, implement, manage, maintain, and troubleshoot security in a Microsoft Windows Server network infrastructure. It is intended for students preparing to be IT systems engineers and security specialists who are responsible for implementing and managing security policies and procedures for an organization. Prepares students for the MCSE Security specialization.

Pre/corequisite: CEN 2305; may be waived for individuals with current MCSA certification or equivalent experience. Laboratory fee.

CEN2327

Designing a

Networking Infrastructure 4 credits
The prospective network student is provided
with the information and skills needed to
create a networking services infrastructure
design that supports the required network
applications. Students provide network solutions based on the needs of an organization. Prerequisites: CGS 1060, CEN 2506.
Laboratory fee.A.S. degree credit only. (3 hour
lecture; 2 hour lab)

CEN2329

Managing Windows 2000

Networking Environment 4 credits This course will provide the knowledge required by System and Network Administrators who implement, manage and troubleshoot existing network and server environments based on the Microsoft Windows 2000 network operating system. This course focuses on performing desktop and server installation and configuration tasks, how to perform troubleshooting tasks, hardware and software installations, configurations and upgrades, and perform network and system operation tasks. Typical network services and resources that would be managed include messaging, database, file and print servers, proxy server of firewall, Internet and intranet, remote access, and client computer management. Prerequisite: CEN 2305. Laboratory fee. (3 hour lecture; 2 hour lab)

CEN2537

Advanced

Wireless Networking 4 credits
This course provides the student with a complete foundation of knowledge for entering into or advancing in the wireless networking industry. Topics include: 802.11 architecture, MAC and physical layer discussions, trouble-shooting wireless LAN installations, wireless LAN security and site survey fundamentals. This course is a second level course that delivers hands on training that benefits the novice as well as the experienced network professional. Prerequisite: CEN 1536. Laboratory fee. (3 hour lecture; 2 hour lab)

CEN2545

Hardening the Infrastructure 4 credits

The course explores concepts of network defense and countermeasures as well as hardware and software required to design, configure, and implement secure networks. Students install and use various security tools; learn techniques for collecting, monitoring, and auditing security activities; analyze threats and intrusions for various business scenarios; and learn how to apply security policies to protect normal business operations. This course prepares students for the SCNP Hardenit the infrastructure certification exam. May be repeated up to three (3) times with different versions of the software when there have been substantial or significant version changes. Pre/corequisite: CTS 1312 may be waived for individuals with current Security + certification or equivalent experience. (3 hour lecture; 2 hour lab)

140



CEN2546

Network Defense

and Countermeasures 4 credits Students explore concepts of network defenses and countermeasures. Topics covered include the fundamentals of defending networks, layered defense, defense-in-depth strategies, the design and implementation for firewalls; Microsoft ISA Server and Linux IP chains; Virtual Private Networks (VPN's); intrusion detection systems (IDS); risk analysis; and security policies. A combination of lectures, demonstrations, discussions, online assignments, and scenario-based projects are used. This course prepares students for the SCNP NDC certification exam. This course may be repeated up to (3) times with different versions of the software when there have been substantial or significant version changes. Pre/corequisite: CEN 2545 Hardening the Infrastructure or equivalent knowledge. Laboratory fee. (3 hour lecture; 2 hour lab)

CET1600

Networking Fundamentals

This is the first course of the four-course Cisco curriculum that will lead the student toward the goal of achieving professional certification as a Cisco Certified Network Analyst (CCNA). Instruction includes networking, network terminology and protocols, network standards, LANs, WANs, the OSI reference model, cabling, cabling tools, routers, router programming, LAN/WAN topologies, IP addressing and network standards. Students will install, configure and operate simple-routed LAN, routed WAN and switched LAN and LANE networks. Prerequisites: CGS 1060 and CGS1560 or a working knowledge of the Microsoft operating system and Microsoft Office applications suite. Operational understanding of the following microcomputer topics: operating sys-

CET1610

Router Technology 4 credits

tems, memory, hard disks, types of central pro-

cessing units (CPUs), communications ports,

printer ports, display adapters and pointing

devices. Laboratory fee.A.S. degree credit only.

(3 hour lecture; 2 hour lab)

This is the second course of the four-course Cisco curriculum that will lead the student toward the goal of achieving professional certification as a Cisco Certified Network Analyst (CCNA). Instruction includes networking, network terminology and protocols, network standards, LANs, WANs, OSI models, Ethernet, Token Ring, Fiber Distributed Data Interface (FDDI), TCP/IP Addressing Protocol, dynamic routing, routing, and the network Administrator's function. Students will successfully implement beginning router configurations; demonstrate an understanding of routed and routing protocols and the fundamentals of LAN switching. Pre/corequisite: CET1600. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

CET2615

Advanced Router Technology

Technology 4 credits
This is the third course of the four-course
Cisco curriculum that will lead the student

toward the goal of achieving professional certification as a Cisco Certified Network Analyst (CCNA). Instruction includes networking, network terminology and protocols, network standards, LANs, LAN segmentation techniques, IP, and IPX addressing, Fast Ethernet, the Spanning Tree Protocol, virtual LANs, LAN switching and VLANs, advanced LAN and LAN switched design, Novell IPX, Network management techniques and threaded case studies. Prerequisites: CET1600, CET 1610. Laboratory fee.A.S. degree credit only. (3 hour lecture; 2 hour lab)

CET2620

4 credits

Project-Based Learning 4 credits

This is the fourth and final course of the Cisco curriculum that will lead the student toward the goal of achieving professional certification as a Cisco Certified Network Analyst (CCNA). Instruction includes networking, network terminology and protocols, network standards; students will complete advanced network design projects, and advanced network management projects, WAN theory and design, WAN technology, PPP, Frame Relay, ISDN, network trouble shooting national SCANS skills and Threaded case studies. This course is designed for students majoring in computer hardware and people from the industry already working in networking. Prerequisites: CET 1600, CET 1610, CET 2615. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

CGS1021

Scientific Computing 4 credits

This course explores the specialized features of common computer desktop applications as applied to biotechnology data. Through hands-on practical assignments, students will study and practice the computerized techniques by which to organize, manipulate, report, present, depict and analyze biomolecular data and information. Special fee. Corequisite: STA 2023. (3 hour lecture; 2 hour lab)

CGS1060

Introduction to Microcomputer Usage

This is an introductory level course that satisfies the College's computer competency requirement. Students will learn essential computer concepts and skills as well as knowledge of how to use, current software applications. Topics include word processing, spreadsheets, database, presentation software, email, Internet, and legal and ethical issues concerning the use of computers and the Internet. Laboratory fee. (3 hour lecture; 2 hour lab)

CGS1081

Introduction of Computing for the

Visually Impaired 4 credits
This course is designed to provide students
with an overview of access technology, experience using it with applications and a chance

to explore the wide range of opportunities

that computers can offer to people who are blind. It will cover, the components of the computer, access technology, screen reading software, disk operating systems. DOS versus Windows, WordPerfect for DOS, and accessible software, including shareware and freeware. Prerequisite: Departmental Approval. A.S. degree credit only. (3 hour lecture; 2 hour lab)

CGS1145

Introduction to Bioinformatics

4 credits

This course introduces the basic concepts and techniques of Bioinformatics. Through research papers, hands-on projects and use of common computational programs, students will apply aspects of Information Technology and Computer Science in order to analyze biological/biomelcular/bioinformatics data. Special fee. (3 hour lecture; 2 hour lab)

CGS1501

Wordprocessing

Applications 4 credits

A comprehensive course in the use of a word-processor for microcomputers. The concepts, features, and commands of a wordprocessor are applied to a variety of applications. Programming concepts will be introduced. Classes are conducted in a hands-on-lecture/laboratory environment where a microcomputer is available for each student. The content of this course will continually change to keep pace with current technology. CGS 1060 or computer experience is required. Laboratory fee.A.S. degree credit only. (3 hour lecture; 2 hour lab)

CGS1511

Spreadsheet Applications 4 credits

A comprehensive course in the use of a spreadsheet for microcomputers. The concepts, features, and commands of a spreadsheet are applied to a variety of applications. Programming concepts will be introduced. Classes are conducted in a hands-on lecture/laboratory environment where a microcomputer is available for each student. The content of this course will continually change to keep pace with current technology. CGS 1100 or computer experience is required. Laboratory fee.A.S. degree credit only. (3 hour lecture; 2 hour lab)

CGS1541

4 credits

Database Applications 4 credits

A comprehensive course in the use of a database for microcomputers. The concepts, features, and commands of a database are applied to a variety of applications. Programming concepts will be introduced. Classes are conducted in a hands-on-lecture/laboratory environment where a microcomputer is available for each student. The content of this course will continually change to keep pace with current technology. CGS 1100 or computer experience is required. Laboratory fee. A. S. degree credit only. (3 hour lecture; 2 hour lab)

CGS1546 Microsoft SQL Administration

4 credits

An introductory database administration course, in which students learn to install, administer, and optimize an enterprise-level database system. Emphasis on using SQL to define databases, tables, stored procedures, and constraints. Prerequisite: CGS 1541. Laboratory fee.A.S. degree credit only. (3 hour lecture; 2 hour lab)

CGS1560

Microcomputer

Operating Systems 4 credits

This is a comprehensive course in the use of operating systems for microcomputers suitable for students seeking preparation for A+operating system certification. Students will learn how to install, configure, use, manage, and troubleshoot the Disk Operating System (DOS), Microsoft Windows, and other microcomputer operating systems. Prerequisite: CGS 1060 or computer experience is required. Laboratory fee.A.S. degree credit only. (3 hour lecture; 2 hour lab)

CGS1580

Desktop Publishing 4 credits

A comprehensive course in the use of desktop publishing for microcomputers. The concepts, features, and commands of desktop publishing are applied to a variety of applications. Programming concepts will be introduced. Classes are conducted in a hands-onlecture/laboratory where a microcomputer is available for each student. The content of this course will continually change to keep pace with current technology. CGS 1060 or computer experience is required. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

CGS1810

Microcomputer

Help Desk 1 4 credits

This course is designed to teach students practical PC Help Desk skills. Students learn to use appropriate troubleshooting, diagnostic and problem resolution techniques to resolve PC software and hardware problems. Real world situations are addressed through a combination of lecture, demonstration and an emphasis on practical, intensive laboratory activities. A.S. degree credit only. (3 hour lecture; 2 hour lab)

CGS1871

Multimedia and Animation 4 credits

An introduction to using and producing multimedia. Introduces main concepts, components and use. Hardware and software considerations and requirements are covered. Design and presentation considerations and methods are explored. Students will produce multimedia presentations and be introduced to authoring systems. Prerequisites: CGS 1060 or have experience with using computers and word processing. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

CGS2092

Professional Ethics

and Social Issues in CS 4 credits
This course explores the legal, ethical, and social issues relevant to information technology, the roles and responsibilities of computer professionals, and the development and implementation of network use and security policies. Students will develop, manage, and assess network use and security policies for the workplace by formulating standards of compliance, record keeping procedures, and employee guidelines; investigating and documenting actual use and practices; and performing network audits. Laboratory fee. (3 hour lecture; 2 hour lab)

CGS2172

Implementing a

Commerce-Enabled Web Site 4 credits
This course provides students with the knowledge and skills necessary to implement, support, maintain, optimize, and troubleshoot Web sites using Microsoft Site Server, focusing particularly electronic commerce (e-commerce) sites. Prerequisites: COP 2333, Laboratory fee.A.S. degree credit only. (3 hour lecture; 2 hour lab)

CGS2405

Advanced C++ Programming 4 credits
An advanced application programming

course using the C language. Emphasis will be on the design and use of structured computer algorithms for problem solving using C. Topics covered will include the design of independent modules, processing of text data as input, advanced sorting techniques, various file handling techniques, advanced data manipulation and data structures. Students are required to design, code, compile, debug, and execute programs. Prerequisite: CGS 1060, COP 1220. Laboratory fee. (3 hour lecture; 2 hour lab)

CGS2423

C For Engineers 4 credits

A programming course using the programming language C. The programming cycle design, code, compile and execute, is applied to elementary engineering and science majors. Prerequisite: computer skills or CGS 1060, and MAC 1105 or higher level mathematics is required. A.S. degree credit only. (3 hour lecture; 2 hour lab)

CGS2547

Microsoft SQL

Implementation 4 credits

A comprehensive course in learning how to design and implement enterprise database solutions using SQL. Working through a system of modular lessons and hands-on labs to comprehend SQL Architecture. Prerequisite: CGS 1546. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

CGS2548

Advanced Database

Programming 4 credits

Current database management is featured. Emphasis is on analysis, design, programming real world applications and integration of database and the internet applications. This course is designed for individuals interested in developing programmed database applications. Prerequisite: CGS 2547. A.S. degree credit only. (3 hour lecture; 2 hour lab)

CIS1000

Introduction to

Data Processing 4 credits

An introductory course for data processing majors covering the fundamentals of data processing and computer programming. Elementary programming applications are included. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

CIS1949

Co-op Work

Experience 1: CIS 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. A.S. degree credit only. (3 hour lecture)

CIS2321

Introduction to

Systems Analysis and Design 4 credits
The design of management information systems using the concepts of charting, investigating, documenting and reporting is developed using current information systems.
The related concepts of management, organization, computers, information processing and the systems approach are combined and applied to case studies. Prerequisites: ACG 2001, CGS 1060, or CIS 1000 or COP 1170. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

CIS2949

Co-op Work

Experience 2: CIS 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-op Work Experience 1. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. A.S. degree credit only. (3 hour lecture)

COP1170

Introduction to Visual Basic 4 credits

BASIC syntax is used for developing programs for the solution of various business applications. The topics of program design, arrays, structured programming, report generation, and file processing are included. This course may be taken by those not majoring in Business Data Processing. Knowledge of high school algebra is recommended. Laboratory fee. (3 hour lecture; 2 hour lab)

142



COP1220

Introduction to

C++ Programming

4 credits
Introduction to Programming in C covers
the syntax and rules of the C language.
Students are required to code, compile, and
execute programs. The topics of program
design, structured modular programming
arrays, report generation, and file processing
are included. Recommended for Computer
Science and Business Data Processing majors.
No previous computer courses are required

although CGS 1060 is recommended. (3 hour

COP1822

lecture; 2 hour lab)

Web Page

Design and Programming 4 credits
This course will provide an introduction to
the World Wide Web and Hypertext Markup
Language. Emphasis on understanding the
components necessary to create WWW
pages. Topics covered will include the history of the World Wide Web as well as HTML.
Formatting tags, anchors, graphics, interactive
graphics and forms. The windows platform
will be used for page creation and Internet
exploration. Laboratory fee. A.S. degree credit
only. (3 hour lecture; 2 hour lab)

COP2004

Perl Programming 4 credits

This course provides a practical introduction to PERL programming for the biology/bioinformatics student. Through lectures, real-world examples and extensive hands-on assignments, the student will acquire an understanding of the PERL syntax and use it to create and execute PERL modules that solve common bioinformatics programming demands. Special fee. Prerequisites: CGS1145, CIS 2321. (3 hour lecture; 2 hour lab)

COP2171

Advanced Visual

BASIC Programming 4 credits

Advanced study of the syntax and rules of the BASIC interactive language. Programming business applications for microcomputers/ minicomputers using various file organization methods. Prerequisite: COP 1170. Laboratory fee. (3 hour lecture; 2 hour lab)

COP2332

Distributed Applications

with Visual Basic 4 credits

This course will teach Microsoft Visual Basic programmers how to build N-tier client/ server solutions for Microsoft Windows using Windows DNA and Com+ technologies. It includes developing distributed applications that conform to the Microsoft Solution Framework, and is designed to teach Visual Basic programmers, who currently develop desktop applications, how to build n-tier, client/server solutions. Also it will prepare students to take Microsoft's Certification Exam for Distributed Applications with Microsoft Visual Basic; it is a required course for MCSD and elective for MCDBA. Prerequisites: COP 2333. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2333

Advanced OOP

in Visual Basic 4 credits

Covers the design, implementation, testing, and documentation of medium-sized business application programs, written in Microsoft Visual Basic. Students will create one or two projects which are designed and managed by the instructor. The course emphasizes Vbasic mastery, database transaction processing, authorizing help files, and calling DLL functions. Students will be evaluated on the quality of their work, according to professional standards. Prerequisite: Completion of COP 2171 or the equivalent professional experience. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2334

Object Oriented

Programming in C++ 4 credits

Advanced study of the C language with emphasis on object oriented programming, graphics, and list processing. Students are required to design, code, compile, and execute programs for the business and scientific environment. A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2612

Operating System

Principles 4 credits

Students will become familiar with operating system functions and commands. Windows and UNIX operating systems are covered. Topics include file management, backup and recovery procedures, multi-user functionality, communications and establishing interfaces. Prerequisites: CGS 1060, COP 1170, and COP1220. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2700

Database Application

Programming 4 credits

Current database management software is featured. Emphasis is on analysis, design, and programming of systems rather than data structures. This course is designed for individuals interested in developing programmed applications. Prerequisites: Completion of all basic skills or acceptable scores on the Placement Test, CGS 1060, (Introduction to microcomputer Usage), and proficiency in any programming language. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2740

Introduction to

Oracle: SQL and PL/SQL 4 credits

This course offers students an extensive introduction to data server technology. The class covers the concepts of both relational and object relational databases and the powerful SQL and PL/SQL programming languages. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. In addition, students learn to create PL/SQL blocks of application code that can be shared by multiple forms, reports, and data concepts. This class is preparation for

both the Oracle Application Developer and Database Administrator Certification Exams. Prerequisite: Familiarity with data processing concepts and techniques. Laboratory fee. A.S degree credit only. (3 hour lecture; 2 hour lab)

COP2741

Introduction to Oracle

Database Administration 4 credits This course is designed to give the Oracle database administrator (DBA) a firm founda-

database administrator (DBA) a firm foundation in basic administrative tasks. Through instructor-led learning, structured hands-on practices, and challenge-level exercise labs, the DBA will gain the necessary knowledge and skills to set up, maintain, and trouble-shoot an Oracle7 or Oracle8 database. A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2742

Intermediate Oracle

Database Administration 4 credits

This course introduces students to the critical task of planning and implementing database backup and recovery strategies and to the trends and problems associated with business networking. Backup and recovery techniques and various backup, failure, restore and recovery scenarios are introduced. Generic backup, restore and recovery operations that apply to both Oracle7 and Oracle8 database environments; the Oracle8 Recovery Manager is also discussed. Students will learn the various solutions required to tackle problems associated with business networking. Implementation of solutions, Net8 architecture, and peer connections are covered. A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2744

Oracle Database

Performance Tuning 4 credits This course introduces students to a series of

This course introduces students to a series of tuning steps which can be used to improve the performance of the Oracle8 Server. The focus is on database rather than specific operating system performance issues. Through a combination of demonstrations, lectures, online lab exercises, and slide presentations, students will gain practical experience tuning an Oracle database. Students will also learn how to recognize, troubleshoot and resolve common performance related problems in administering an Oracle database. A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2745

Programming PL/SQL

in Oracle 4 credits

This course enables students to learn how to write PL/SQL procedures, functions and packages. Working in both the Procedure Builder and the SQL Plus environments, students will learn how to create and manage PL/SQL program units and database triggers. Students will also learn how to use some of the Oracle-supplied packages. A.S. degree credit only. (3 hour lecture; 2 hour lab)

00 2008-10 CATALOG

COP2746 Introduction to **Oracle Database**

4 credits

Applications In this course, students will learn how to build and test interactive applications and will work in a graphical user interface (GUI) environment. They will learn how to customize forms with user input items such as check boxes, list items and radio groups. Students will also learn how to modify data access by creating event-related triggers. A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2747

Intermediate Oracle **Database Applications** 4 credits

In this course, students will gain an opportunity to broaden their Developer/2000 formbuilding skills. They will use Project Builder to manage application files and multiple transactions across modules. Students will also learn how to create multiple-form applications and will practice enhancing their applications with custom menus, reports and charts.A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2748

Oracle Report

Building 4 credits

In this course, students will build a variety of standard and custom reports in a clientserver environment. Working in a graphical user interface (GUI) environment, students will learn how to retrieve, display and format data in many styles to create tabular, matrix, mailing label and letter reports. They will also learn how to customize more complex reports, embed graphical charts in reports and use the Intelligent Remote Reports Server.A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2800

Java Programming 4 credits

This course is an intermediate programming course using the Java computer language. Students are required to code, compile and execute programs. Object oriented programming techniques as they are applied in event driven programming will be presented. Practical examples of object oriented programming for the World Wide Web will be studied. Prerequisites: COP 1220. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2805

Advanced Java **Programming** 4 credits

This is an advanced level programming course using Java. Students will be required to code. Compile and execute programs. Topics include applets, exception handling, multimedia mechanisms, multithreading and networking capabilities, and advanced Internet technologies in multi-tiered web environments accessing databases. Prerequisites: COP 2800. Laboratory fee.A.S. degree credit only. (3 hour lecture: 2 hour lab)

COP2812

Extensible Markup

Language Programming (XML) 4 credits

The prospective e-commerce professional will learn the skills necessary to create applications using XML technologies. Building, maintaining, and implementing these applications allow the student an opportunity to create business-to-business web applications that solve everyday business problems. Prerequisites: CGS 1060, COP 1822, and COP 2800. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2823

ASP/Script Language

Programming 4 credits

The prospective web support professional will learn the skills necessary to create serverside scripts using Active Server Pages. Building, maintaining, and implementing these scripts allow the student an opportunity to create fully-functional Web applications that solve everyday business problems. Prerequisites: CGS 1060, COP 1170, COP 2800. Laboratory fee. A.S. degree credit only. (3 hour lecture; 2 hour lab)

COP2825

Implementing an

Internet Server 4 credits

This course provides students with the knowledge required to implement, support, and maintain Internet servers. Both Microsoft and Apache servers are covered. COP 2612 Laboratory fee.A.S. degree credit only. (3 hour lecture; 2 hour lab)

CTS1101

Introduction to

Windows

Introduction to the Microsoft windows(TM) graphical user interface. Emphasis is on windowing concepts, as well as learning how to run application programs and windows utilities, manage files, and transfer data. Students are shown how to combine different applications to use the full power of a desktop environment. Classes are conducted in a hands-on classroom, with lectures and lab combined. Lab fee.A.S degree credit only. (1 hour lecture; 2 hour lab)

CTS1111

Linux + 4 credits

This course is designed to help students prepare for the CompTIA Linux+ Certification Exam and to teach the skills needed to administer GNU/Linux-based work-stations and servers. Students learn how to plan, install, maintain, document, and troubleshoot GNU/Linux operating system services. Prerequisite: CGS 1060 or computer experience is required. Special fee.A.S. degree credit only. (3 hour lecture; 2 hour lab)

CTS1312

Fundamentals of

Networking Security 4 credits

This course provides the student with a complete foundation of knowledge for entering into or advancing in the information technology security field. Topics include: an introduction to general security concepts; communication security; infrastructure security; basic cryptography; operational and organizational security. Including topics from troubleshooting to performing a site survey, this course delivers hands on training that benefits the novice as well as the experienced network professional. Prerequisites: CEN 2305. Laboratory fee. (3 hour lecture; 2 hour lab)

CTS2184

Implementing and **Managing Microsoft**

Exchange Server 4 credits

This course provides the information and skills necessary to implement and maintain Microsoft Exchange Server as a messaging and collaboration system on the Microsoft Windows platform. The student will develop the skills to: install Exchange, upgrade from prior versions of Exchange, integrate Exchange Server with other messaging and collaboration platforms, deploy clients, set up user collaboration features, configure security options, implement public folders, and develop and apply a disaster recovery plan. A combination of lectures, demonstrations, discussions, online assignments, and handson labs are used. Prerequisite: CEN 2306. Laboratory fee. (3 hour lecture; 2 hour lab)

CTS2300

Planning Network

Infrastructure 4 credits

This course provides the information and skills necessary to successfully plan and maintain a Microsoft server operating system network infrastructure. The course focuses on: planning TCP/IP physical and logical network; planning and troubleshooting a routine strategy; planning a Dynamic Host Configuration Protocol (DHCP) strategy; optimizing and troubleshooting DNS; planning and optimizing WINS; planning, optimizing, and troubleshooting IPSEC network access; and troubleshooting network access. Prerequisite: CEN 2306. Laboratory fee. (3 hour lecture; 2 hour lab)

CTS2320

Managing a Windows

Networking Environment 4 credits

This course will provide the knowledge required by System and Network Administrators who implement, manage and troubleshoot existing network and server environments based on the Microsoft Windows network operating system. This course focuses on performing desktop and server installation and configuration tasks, how to perform troubleshooting tasks, hardware and software installations, configurations and upgrades, and perform network and system operation tasks. Typical network services and resources that would be managed include messaging, database, file and print servers, proxy server of firewall, Internet and intranet, remote access, and client computer management. Prerequisite: CEN 2305. Laboratory fee. (3 hour lecture; 2 hour lab)



CTS2550

Powerpoint/Outlook 4 credits

The student will be provided the opportunity to develop the skills necessary to prepare for the core level Microsoft Office User Specialist (MOUS) Certification exam in MS PowerPoint and MS Outlook. Prerequistie: CGS 1060. Laboratory fee.A.S degree credit only. (3 hour lecture; 2 hour lab)

CTS2700

Design Business Solutions 4 credits

This course teaches students to use the appropriate Microsoft Solutions Framework (MSF) models and processes to create conceptual, logical, and physical designs for a business solution. Participants will also learn how to select suitable technologies and architectures for their solution, based on trade-off analysis. At the end of the course, students will be able to: .Use the MSF Process Model and MSF Application Model to develop conceptual, logical, and physical designs of a business solution. Select solution technologies and architecture based on a tradeoff analysis. .Address the issues involved in designing a user interface. .Produce a baseline functional specification that can be used to develop a business solution. Prerequisite: COP 2333, Laboratory fee.A.S. degree credit only. (3 hour lecture; 2 hour lab)

DIG1705

3D Programming 1 4 credits

This course provides the student with a foundation in 3D programming which will allow them to develop programs involving 3D vector graphics in Visual C++, while using popular graphics libraries such as DirectX, and OpenGL. Students will learn to rotate, scale, translate and texture map 3D objects using matrix operations. Programs developed will use a graphical interface, keyboard and mouse. Students will also explore basics of 3D Engine development for modern games. Prerequisites: CAP 1041, COP 1220, and MAC 1105. Pre/corequisite: COP 2334. (3 hour lecture; 2 hour lab)

DIG1710

Introduction to

Game Development 4 credits

This course will provide basic knowledge on the various aspects of the game industry, topics covered are: types of game development careers, game development and design processes, marketing themes, copyright laws, game company structures, various types of programming languages used by different types of games, and the impact of video games on modern society. The students will learn general programming concepts and to use common game development environments. Prerequisites: a working knowledge of the Microsoft operating system and Microsoft Office application suite. Laboratory fee. (3 hour lecture; 2 hour lab)

DIG1712

Level Building and Design 4 credits

Students will create design documents for different genres of game levels and learn to create levels for existing games. Students will also learn what is required to create level building and design tools for level designers. They will create new levels for existing games, using game development tools for designing and building game levels. Prerequisites: A working knowledge of the Microsoft operating system and Microsoft Office application suite. Laboratory fee. (3 hour lecture; 2 hour lab)

DIG2625

Network Programming

4 credits for Game Development

This course introduces the student to network programming, hierarchy of networks and communication in a distributed computing environment. Topics covered include: network technologies, architecture, protocols, network programming, multi-player games, and sockets. Programs will be written to operate across different network environments using C/C#/C++ and their existing libraries such as DirectX, Net Framework and other popular development kits. Prerequisite: COP 1220. Pre/corequiste: COP 2334. Laboratory fee. (3 hour lecture; 2 hour lab)

DIG2626

Artificial Intelligence 4 credits

This course covers key aspects of Artificial Intelligence (AI) including, the origins and history of Artificial Intelligence, current and future uses of AI, AI methods algorithms such as: path planning, stimulus-response agents, agent architectures, decision-making systems, game trees, neural networks, and genetic algorithms. Students will create and modify existing games to include an AI system. Pre/ corequisite: COP 2334 Laboratory fee. (3 hour lecture; 2 hour lab)

DIG2714

Systems Analysis for Game Development 4 credits

This course provides the student with a foundation in the study of principles and practices of systems analysis for game and application development. The concepts delivered will include software quality assurance, process models, requirements analysis, design methodologies, testing and maintenance. Class work will include hands-on experience building a game using the extreme programming life cycle model. Students working in teams develop all life cycle deliverables for the game: requirements document, specification and design documents, system code, test plan. and user manuals. Pre/corequisite: COP 2334. Laboratory fee. (3 hour lecture; 2 hour lab)

DIG2771

3D Programming 2 -Virtual Reality

This course covers all key aspects of advanced 3D programming, teaching students how to program special effects and realism for games by using: illumination, shading, reflections,

collision detection/reaction, light mapping, sound, music, alpha blending, fog, and applying basic Newtonian physics to objects. At the completion of this course, students will have an understanding of 3D game engines for real-time game rendering design. Students will also use different input devices for their games. Prerequisite: DIG 1705. Pre/corequisite: COP 2334. (3 hour lecture; 2 hour lab)

GRA2991C

Selected StudieS

4 credits

This course is an introduction to the fundamentals of computer based 3D modeling for Film, TV, and Video Gaming applications. Pre-Requisite: ART 2600C; GRA 2577C; VIC 1202. (4 hour lecture)

GRA2992C

Selected Studies

4 credits

This course is an introduction to the fundamentals of animating 3D computer models for Film, TV, and Video Gaming applications. Pre-Requisite: ART 2601C and instructor approval; or GRA 2991C. (4 hour lecture)

Cooperative Education

COF1949

Orientation: Career

and Cooperative Education 3 credits

Career Orientation and Cooperative Education is a practicum in which a student works individually with a Co-op counselor, selecting a career, outlining an academic plan, planning for a two or four year degree program, and preparing to enter the Cooperative Education program. Students will take personality and vocational inventories, complete a (Transition) course workbook, explore job opportunities in Dade, do real interviewing of professionals, complete media and library research, determine academic objectives, set goals as well as learn resume and interviewing procedures, and learn how to enter the Co-op programs at MDC and senior institutions. (3 hour lecture)

Criminal Justice & Related Technologies

CCJ1010

Introduction to

Criminology 3 credits Theories and causes of criminal and delinquent behavior, including its variations, ramifications, explanations and measures of

prevention, control and treatment. (3 hour lecture)

CCJ1020

4 credits

Introduction to

Criminal Justice 1-3 variable credits

History, development, philosophy, constitutional aspects, introduction to and survey of the agencies and processes involved in the administration of criminal justice in a democratic society. (1-3 hour lecture)

3 credits

MDC 2008-10 CATALOG

CCJ1191

Human Behavior

in Criminal Justice 3 credits

Human behavior and how it relates to the duties and responsibilities of the criminal justice practitioner. (3 hour lecture)

CCJ1193

Community/Human Relations for Criminal Justice

Practitioners 3 credits
Emphasizes techniques used to increase public awareness and to improve the human relations skills of correctional and law enforcement officers. Effort is made to develop effective interpersonal communication skills for dealing with individuals and groups encoun-

CCJ1210

Criminal Law 3 credits

tered by criminal justice practitioners in the

work environment. (3 hour lecture)

Historical background and foundations of American criminal law, including United States Constitutional requirements, Federal and State court organization and jurisdiction, criminal law basics, Florida statutes, rules of evidence and procedure. (3 hour lecture)

CCJ1949 Co-op Work

Experience 1: CCJ 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

CCJ2482

Criminal Justice Ethics

and Professionalism 3 credits

This course will provide students and entrylevel criminal justice practitioners with an overview of moral, ethical, and professional issues and dilemmas facing individuals and organizations within the criminal justice system. It will help individuals to define and implement ethical and professional standards by examining what they will be confronted with and how to respond appropriately. Prerequisite: CCJ 1020 (3 hour lecture)

CCJ2500

Juvenile Delinquency 3 credits

An analysis of the theories and causes of juvenile delinquent behavior. The role of the three components of the juvenile justice system (Police, Court, Corrections) and their impact on prevention and rehabilitation. (3 hour lecture)

CCJ2650

Narcotics and

Dangerous Substances 3 credits

The general problems created by illegal use of narcotics and dangerous substances, with emphasis upon classification, description and history of drugs, etiology of addiction, extent of drug use and its relationship to criminal behavior and methods of control. (3 hour lecture)

CCJ2940

Administration of

Justice Field Service Program 3 credits Provides supervised observation and participation in agencies involved in the administration of justice. This course bridges the gap between theory and practice. Prerequisite: to be arranged by/with the instructor. (3 hour lecture; plus field experience)

CCJ2949

Co-op Work

Experience 2: CCJ 3 credits

This course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

CCJ2995

Occupational Practicum 3 credits

Serves the teachers in various occupational disciplines. To study practical problems of an assigned discipline or critical study or curriculum development, laboratory planning, literature, research, and practice. May be repeated for credit. (3 hour lecture)

CCJ3032

Crime and the Media 3 credits

An examination of the inter-relationship among the mass media, crime, and criminal justice. Includes media and the social construction of crime and criminal justice; media effects on attitudes toward crime and justice; and media as a cause of crime. Prerequisite: SYG 2000. (3 hour lecture)

CCJ3290

Judicial Policy Making 3 credits

An analysis of the components, policies, and procedures of the court structure of the United States and various components. An analysis of local, state, and federal courts in the Criminal Justice System. Prerequisite: CCJ1010 (3 hour lecture)

CCJ3461

Interpersonal Communications

for Law Enforcement 3 credits An examination of the communication pro-

An examination of the communication process and how it affects the relationship between the police and the people they serve. Prerequisite: CCJ 1191, SPC 1026. (3 hour lecture)

CCJ3663

Female Crime and Delinquency

3 credits

A study of females in society and the criminal justice system. Includes the female delin-

quent, females as criminals, females as victims, and the impact of females as professionals in the Criminal Justice System. Prerequisites: CCJ 1191, 2500 (3 hour lecture)

CCJ3666

Victomology

A comprehensive study of victimization; analysis of contemporary victim-assistance and

ysis of contemporary victim-assistance and victim compensation programs and related research; review of the historical importance of victim restitution as a basis for punitive criminal law. Prerequisite: CCJ 1191. (3 hour lecture)

CCJ3700

Methods of

Research in Criminal Justice 3 credits Evaluates the application of research methodologies as applied to the study of Public Safety Management. Prerequisite: STA 2023. (3 hour lecture)

CCJ4239

Advanced Criminal

Investigations 3 credits

The understanding, interpretation, and application of criminal investigative procedures in the U.S., based upon constitutional issues and legal precedent. Prerequisite: CJT 2100. (3 hour lecture)

CCJ4450

Criminal Justice

Administration 3 credits

An analysis of leadership styles, management principles, supervisory techniques, policies and procedures within Law Enforcement agencies. Prerequisite: CCJ 1020 (3 hour lecture)

CCJ4487

Ethics in

the Criminal Justice System 3 credits
An in depth study of moral, ethical, legal, and professional issues and dilemmas facing individuals and organizations within the Criminal Justice systems. Prerequisite: PHI 2604 (3 hour lecture)

CCJ4641

Organized Crime 3 credits

An analysis of organized crime in today's society, as well as, past, present, and future perspectives of the topic. (3 hour lecture)

CCJ4651

Drugs and Crime 3 credits

An analysis of the interrelationship among drug usage, crime, and the criminal justice system. Prerequisite: CCJ 2650. (3 hour lecture)

CCJ4660

Crime, Violence,

and Schools 3 credits An examination of comprehensive and prov-

An examination of comprehensive and proven theoretical models of explaining, predicting, and preventing school-based violence. Prerequisite: CCJ 1191, CCJ 2500. (3 hour lecture)



CCJ4678

Race, Gender,

Ethnicity & Crime 3 credits

Focuses on the challenges and controversies of managing and treating special offender populations such as juvenile, elderly, disabled, mentally ill, pregnant inmates, etc. Prerequisite: CCJ 1191. (3 hour lecture)

CCJ4941

Internship Program

- Field Placement 15 credits Students will gain field placement experience in a local, state, federal, or private sector public safety agency. (240 hour internship)

CCJ4942

Internship Program

- Basic Police Academy 15 credits Students will participate in the FDLE statemandated certification training program in law enforcement. (240 hour internship)

CCJ4943

Internship Program

- Basic Corrections Academy 15 credits Students will participate in the FDLE State-Mandated Certification Training Program in Corrections. (240 hour internship)

CJC1000 Introduction to

Corrections 3 credits

A comprehensive view of the historical and philosophical treatment programs and developments in the field of juvenile and adult corrections. Emphasis is on understanding the offender in the correctional system; an examination of the correctional client, the non-institutional correctional systems, agencies and recidivism. (3 hour lecture)

CJC1162

Parole and Probation 3 credits

The history, current practices and the consideration of philosophical concepts in the areas of probation and parole. (3 hour lecture)

CJC4015

Corrections Legal

System 3 credits

An analysis of contemporary legal decisions regarding the rights and responsibilities of prisoners, correctional administrators, and correctional officers. Prerequisite CCJ 1210. (3 hour lecture)

CJC4163

Advanced Probation

& Parole 3 credits

A study of the process in which a convicted person can be released into society by means of probation or parole. Prerequisite: CCJ 1162. (3 hour lecture)

CJC4310

Correctional Theory 3 credits

An analysis of corrections relative to punishment and rehabilitation strategies utilized at penal institutions throughout the United States. Prerequisite: CJC 1000 (3 hour lecture)

CJC4311

Contemporary Issues

and Trends in Corrections 3 credits
Focuses on and analyzes of major changes
in incarceration philosophies and policies,
prison populations, and operational costs.
Prerequisite: CJC 1000. (3 hour lecture)

CJC4351

Correctional Operations 3 credits Focuses on challenges the correctional staff faces in their critical role in the dayto-day operations of a correctional facility. Prerequisite: CJC 1000. (3 hour lecture)

CJD2310

Police-Correction Supervision 3 credits An introduction to basic theory pertaining to supervisory responsibilities and assignments. Practical application will be demonstrated through the case-study method. (3 hour lecture)

CJD2320

Police Mid-Management 3 credits

A follow-up to the supervision course. Enhancement of managerial awareness managerial skills. The areas covered are organization and management; decision-making and planning, working with people; personnel and records; operations and current court decisions. It is recommended that the participants in this course be filling a supervisor's or mid-manager's position within an agency at the time of attendance. (3 hour lecture)

CJD2702

Criminal Justice

Communications 3 credits

The report writing process from the interview, statement taking and note taking, through the final report product is covered, with practical exercises included. The differences between interviewing and interrogating are explored. Interpersonal communication skills are covered, along with radio and telephone procedures. Objectives are addressed as specified by the Criminal Justice Standards and Training Commission. Prerequisite: ENC 1101. (3 hour lecture)

CJD2705

Law Enforcement

Equipment and Technology 3 credits
Training of officers in the handling, care and
use of firearms and other technical equipment used in the law enforcement profession.
Qualification, where appropriate, is required
prior to completion of the course. For institute of Criminal Justice students only. (3 hour
lecture; variable lab hrs.)

CJD2720

Legal 3 for Law

Enforcement Officers 2 credits

This legal segment of study includes traffic and driver's licensing laws, as well as legal considerations of officer vehicle operation. Various criminal laws and their elements are studied with an emphasis placed on those laws specific to police application. This course is limited to School of Justice students. (2 hour lecture)

CJD2721

Law Enforcement Patrol 3 credits

Theories, history, and development of police patrol are explored. Also addressed are the skills and techniques that are needed by officers on a daily basis to perform patrol tactics and respond to various types of calls. Methods of approach to various high-risk situations are explored, with practical exercises included. Unusual occurrence events, including firefighting and crowd control, are also addressed. This course is limited to School of Justice students only. (3 hour lecture)

CJD2722

Law Enforcement Traffic 3 credits

Studies traffic enforcement and control with the inclusion of DUI offenses and enforcement. This course is limited to School of Justice students only. (3 hour lecture)

CJD2723

Vehicle Operations 2 credits

Physical, civil and criminal aspects, as well as components of the police driving environment are explored and practical exercises on the driving range are conducted. This course is limited to School of Justice students only. (2 hour lecture)

CJD2724

Law Enforcement Investigations for

Police Officers 3 credits

Fundamentals of criminal investigation, theory and practice, including crime scene search, preservation, collection and transportation of physical evidence are topics included in this course. Techniques are developed from the initial observation methods through the processing of the crime scene and case preparation. Florida's computer network is studied as an information source. This course is limited to School of Justice Basic Law Enforcement students only. (3 hour lecture)

CJD2740

Interpersonal Skills

for Correctional Officers 3 credits

The interpersonal skills needed by officers to understand the incarcerated society is explored, with emphasis on supervision methods. Inmate adjustment and the various segments of inmate society are studied. This course is limited to School of Justice students only. (3 hour lecture)

CJD2741

Emergency Preparedness 1 credit

Skills needed for riot and disturbance control and firefighting are studied and practiced. Lecture includes methods of riot prevention and handling of unusual occurrences. This course is limited to School of Justice students only. (1 hour lecture)

CJD2742

Correctional Operations 3 credits

The operation of correctional facilities is studied including the intake of new inmates, all aspects of their daily care, and institutional procedures. This course is limited to School of Justice students only. (3 hour lecture)

3 credits

0**0** 2008-10 CATALOG

CJD2771

Criminal Justice Legal 2 1 credit

The operation of correctional facilities is studied including the intake of new inmates, all aspects of their daily care, and institutional procedures. This course is limited to School of Justice students only. (1 hour lecture)

CJE1003

Career Exploration

in Criminal Justice 1-3 variable credits
To provide an overview of the various careers
in criminal justice, and to help students define
their career interests and physical abilities.
A.S. degree credit only. (1-3 hour lecture)

CJE2300

Police Organization

and Administration 3 credits

The principles of organization and management, concepts of organizational behavior, the administration of staff activities such as personnel, training, planning and budgeting. (3 hour lecture)

CJE2302

Management of

Police Functions 1-3 variable credits

The administration of line activities of law enforcement agencies, with emphasis on the patrol functions and the prevention of crime, including traffic, investigations, juvenile, vice, and other specialized units. (1-3 hour lecture)

CJE2400

Criminal Justice

and the Community 1-3 variable credits
A general orientation to the concepts of
criminal justice and community relations.
Group relations for criminal justice personnel. A survey of the field of criminal justice
and community relations, emphasizing the
role and influence in the management and
resolution of conflict. (1-3 hour lecture)

CJE3110

Law Enforcement Systems 3 credits

An analysis of the different law enforcement systems in Criminal Justice. Focuses on the different law agencies and their mission at the local, state, and federal levels. Prerequisite: CCJ 1020. (3 hour lecture)

CJE3115

Police and Society 3 credits

Identifies police roles and philosophies, the nature of police work, community policing, and the debates pertaining to police discretion, community relations, and police misconduct. (3 hour lecture)

CJE3444

Crime Prevention 3 credits

Provides students with strategies of how to develop, implent, and maintain a crime prevention program. Includes the history of crime prevention, homeland security programs, public speaking, media relations, crime against the elderly, sexual assault programs, youth crime prevention, and telemarketing fraud and scams. Prerequisite: SPC 1026. (3 hour lecture)

CJE4310

Police Administration 3 credits

An analysis of corrections relative to punishment and rehabilitation strategies utilized at penal institutions throughout the United States. Prerequisite: CJC 1000 (3 hour lecture)

CJE4641

Advanced Crime

Scene Investigations 3 credits

A study of advanced search techniques, crime scenes reconstruction, computer sketching, laser mapping. DNA evidence, trajectory, and blood spatter evidence. Corequisite: CJE 4675. (3 hour lecture)

CJE4647

Advanced Crime

Scene Technology 3 credits

An application of crime scene investigation techniques to include recording, preserving, and documenting a crime scene. Prerequisite: CJT 2100. (3 hour lecture)

CJE4648

Crime Scene

Safety 3 credits

A study of how to properly handle crime scenes and hazardous crime scenes relative to various hazardous materials, to include chemical and biological (3 hour lecture)

CJE4668

Computer Crime 3 credits

Synthesizes knowledge of crime elements, legal issues, investigative techniques, and computer skills used in the prevention and investigation of computer-generated crime. Prerequisite: CGS 1060. (3 hour lecture)

CJE4675

Modern Fingerprint

Technology 3 credits

A study of the detection, preservation, and removal of fingerprint evidence pertaining to latent, patent, and plastic prints. Prerequisite: CJT 2100, Corequisite: CJE 4641. (3 hour lecture)

CJL2062

Constitutional Law

and Legal Procedure or Evidence

An examination of the United States and Florida Constitutions, with emphasis on leading cases dealing with arrest, search and seizure, confessions and the rules of evidence. (3 hour lecture)

CJL2080

Comparative Legal

Systems 3 credits An introduction and comparative study of

English and American systems of criminal justice, with particular reference to the protection of the liberty of the individual. Overview of legal systems of other nations, selected to afford a comparative perspective on the Anglo-American tradition. Offered through Overseas Study Program. (3 hour lecture)

CJL2100

Criminal Procedure

& Evidence 1 3 credits

This course explores the history, principles and applications of criminal law procedures for criminal justice officers. This course is limited to the school of justice students only. (3 hour lecture)

CJL2130

Criminal Procedure

and Evidence

Criminal Procedure and Evidence as they relate to the law enforcement profession will be examined. Constitutional provisions applicable to arrest search and seizure and interrogation will be covered. In addition, evidentiary principles will be taught emphasizing those provisions applicable to law enforcement. (3 hour lecture)

CJL3044

Civil Law 3 credits

A study of civil liability for damages caused by breach of an imposed duty, which includes intentional torts, negligence, strict liability, product liability, civil nuisance, defamation, civil wrongful invasion of privacy, and damages. Prerequisite: CCJ 1210. (3 hour lecture)

CJL4064

Corrections

Administration & Law 3 credits

An overall view of the nature, philosophy, operations and goals of secure and non-secure correctional institutions and programs. Prerequisite: CJC 1000. (3 hour lecture)

CJL4133

Criminal Evidence 3 credits

A study of evidentiary principles and rules of evidence, and their application in a court-room setting. Prerequisite CCJ 1210. (3 hour lecture)

CJL4514

Criminal Sentencing 3 credits

An examination of the various pre-trial and post-trial community based treatment and supervision programs. Prerequisite: CJC 1162. (3 hour lecture)

CJT1330

3 credits

Defensive Tactics Skills for

Criminal Justice Practitioners 3 credits Training of officers in the rationale and methodology of taking people into custody search

odology of taking people into custody, searching subjects, using restraint devices, and utilizing the proper techniques and amount of force. For Institute of Criminal Justice students only. (1 hour lecture; 4 hour lab)

CJT1362

First Responder

for Public Safety Officers 3 credits

Provides training in emergency medical care for public safety officers who are apt to be the first persons responding to an accident or crime of violence. The focus is on the specific emergency situations a public safety officer is likely to confront, and the role of the public safety officer within the community's emergency medical service system. (3 hour lecture)



CJT1800

Introduction to

Security and Loss Prevention 3 credits An introduction to security and loss prevention which includes a historical, philosophical and legal framework. An overview of environmental, political, financial and legal ramifications of security. (3 hour lecture)

CJT2100

Criminal Investigation 3 credits

Fundamentals of criminal investigation, theory and practice, including crime scene search; preservation, collection and transportation of physical evidence interviewing, interrogating; statement taking; and case preparation, with investigation of specific offenses; relationship with the police science laboratory. (3 hour lecture)

CJT2230

Chemical Test

for Intoxication 3 credits

The history, purpose, methods, equipment and status of chemical tests for intoxication. Physiology of alcohol is explained, and arrest and courtroom procedures are outlined. Special fee. (3 hour lecture)

DSC4011

Domestic &

International Terrorism 3 credits

A study of the causes and effects of domestic and international terrorist events. Prerequisite: DSC 4012. (3 hour lecture)

DSC4012

Terrorism 3 credits

A study of domestic and international terrorism, using current events and past incidents for analysis, to include the events, the responses, and the outcomes. Prerequiste: CCJ 1020. (3 hour lecture)

DSC4214

Catastrophic Event

Response Management 3 credits An analysis and evaluation of domestic and international terrorism, the events, the responses, and the outcomes. (3 hour lecture)

DSC4215

Emergency Planning

& Security Measures 3 credits

A study of empirical vs. theoretical approaches; human behavior in disasters; myths and realities; group disaster behavior; community social systems, and disaster; cultures, demographics and disaster behavior distinctions; and model-building in sociological disaster research. Corequisite: DSC 4214. (3 hour lecture)

FES4003

Public Policy

in Emergency Management 3 credits An exploration of public policy used in emergency management, including how policy is made and conveyed. (3 hour lecture)

FES4823

Integrated Emergency

Management

Planning Systems 3 credits

An analysis of technology applications and its role in emergency planning, responses, recovery, and mitigation. Prerequisite: CGS 1060 (3 hour lecture)

Special Security Problems 3 credits

A study of executive level security measures pertaining to dignitary protection, client confidentiality, and legal issues. (3 hour lecture)

Private Investigations 3 credits

An analysis and interpretation of the role of the private investigator within the legal environment. Prerequisite: CCJ 4239. (3 hour lecture)

SCC4311

Security Administration 3 credits

An analysis and evaluation of leadership styles best suited for success in the field of security. Prerequisite: CCJ 1020. (3 hour lecture)

SCC4410

Risk Management

3 credits

A study of risk management theories as it pertains to insurance coverage, facility assessment, as well as employee and pre-employment background investigations. Corequisite: SCC 4311 (3 hour lecture)

SCC4612

Hospital Security

Management 3 credits

An analysis of hospital organizational structure, environment, personnel, visitors, and the requirements of regulatory agencies within the security area. (3 hour lecture)

Modern Dance 1 2-3 variable credits

Beginning exploration of techniques, creative aspects, and theoretical concepts of modern dance which includes but is not limited to proper body alignment and mechanics of breathing and phrasing, verbal movement vocabulary, including structural improvisation. No previous experience required. (1 hour lecture; 2-4 hour lab)

DAA1101

Intermediate Modern Dance

2-3 variable credits

Further development of modern dance techniques, creative aspects, and theoretical concepts emphasizing components based on Graham Cunningham and Limon techniques. Prerequisite: Completion of DAA 1100 or permission of the department. (1 hour lecture; 2-4 hour lab)

DAA1104

Modern 1 2-3 variable credits

Beginning exploration of techniques, creative aspects, and theoretical concepts of modern dance which includes but is not limited to proper alignment and mechanics of breathing and phrasing, verbal and movement vocabulary, including structural improvisation, and exercises utilizing Laban's movement analysis. No previous experience required. Dance Majors only. (1 hour lecture; 2-4 hour lab)

DAA1105

Intermediate

Modern 2-3 variable credits

Further development of modern dance techniques, creative aspects, and theoretical concepts emphasizing components based on Graham, Cunningham and Limon techniques. Prerequisite: Completion of DAA 1104 or permission of the department. Dance Majors only. (1 hour lecture; 2-4 hour lab)

DAA1200

Ballet Dance 1 2-3 variable credits

Designed to provide experiences relative to the various aspects of ballet techniques and terminology at a primary level. Special fee. (1 hour lecture; 2-4 hour lab)

DAA1201

Intermediate Ballet

Dance 2-3 variable credits

The continued development of various aspects of ballet technique terminology. Prerequisite: DAA 1200 or permission of the department. May be repeated for credit. (1 hour lecture; 2-4 hour lab)

DAA1204

Ballet 1 2-3 variable credits

Beginning exploration of techniques and theoretical concepts of ballet increasing awareness of proper alignment, balance, coordination and application of various musical meters. No previous experience required. Dance Majors only. (1 hour lecture; 2-4 hour lab)

DAA1205

Intermediate Ballet 2-3 variable credits

Continuing exploration of techniques and theoretical concepts of ballet placing further emphasis on precision of lines and exactness of movement. Prerequisite: DAA 1204 or permission of the department. Special fee. Dance Majors only. (1 hour lecture; 2-4 hour lab)

DAA1290 Ballet for

the Theater 1 1-3 variable credits

Music Theatre students will be receiving a systematic training of the body through a progressive study of the traditional classic ballet vocabulary. Stress is on placement, flexibility and coordination. (2-6 hour lab)

DAA1291

Ballet for

the Theater 2 1-3 variable credits

A continuation of the systematic training of the body through a progressive study of the traditional classic ballet vocabulary. More barre exercises and simple adagio jumps and turns will further the concentration on flexibility and coordination. Prerequisite: DAA 1290. (2-6 hour lab)

MDC 2008-10 CATALOG

DAA1311

Social Folk

and Square Dance 1 credit

Designed to provide experiences in learning the popular and traditional dances of the Americas and International Countries. (2 hour lab)

DAA1330

Afro-Caribbean

Dance 1-3 variable credits

Designed for those students wishing to learn the dance skills and techniques of the dance from Africa and the Caribbean. Special fee. (1 hour lecture; 2-4 hour lab)

DAA1420

Repertory 1 2-3 variable credits

A special workshop course designed to provide the student with experience relative to the performance of dance concerts. Works choreographed by students as well as faculty will be featured. (1 hour lecture; 2-4 hour lab)

DAA1500

Jazz Dance 1 2-3 variable credits

Designed to provide experiences in the styles of theatrical jazz dance at a primary level. Special fee. (1 hour lecture; 2-4 hour lab)

DAA1501

Dance

Intermediate Jazz

2-3 variable credits

Continuation of development of technique and understanding of Jazz Dance. Prerequisite: DAA 1500 or permission of the department. (1 hour lecture; 2-4 hour lab)

DAA1504

Jazz Dance 1 2-3 variable credits

This course is designed to introduce the student to the vocabulary and technique of jazz dance, incorporating a fusion of styles from popular, Afro-Caribbean, and contemporary modern jazz choreographers. For majors only. Audition required. May be repeated for credit. (1 hour lecture; 2-4 hour lab)

DAA1505

Jazz Dance 2 2-3 variable credits

This course continues the students introduction to the vocabulary technique of jazz dance, incorporating a fusion of styles from popular dance,Afro-Caribbean, and traditional and contemporary modern Jazz choreographers. For majors only. Audition required. (1 hour lecture; 2-4 hour lab)

DAA1520

Tap Dance 2-3 variable credits

Designed for students interested in learning the skills and techniques of tap dancing. (1 hour lecture; 2-4 hour lab)

DAA2102

Modern Dance 2 2-3 variable credits

Further development of modern dance techniques, creative aspects and theoretical concepts emphasizing components based on Graham, Cunningham and Limon techniques. The use of improvisation as an introduction to basic principles of form and their application to dance composition will be emphasized. Prerequisite: DAA 1101 or per

mission of the department. (1 hour lecture; 2-4 hour lab)

DAA2103

Advanced Modern

Dance 2 2-3 variable credits

Further development of modern dance techniques, creative aspects and theoretical concepts based on Graham, Cunningham, and Limon technique. Prerequisite: DAA 2102 or permission of the Department. (1 hour lecture; 2-4 hour lab)

DAA2106

Modern 2 2-3 variable credits

Further development of modern dance techniques, creative aspects and theoretical concepts emphasizing components based on Graham, Cunningham and Limon techniques. The use of improvisation as an introduction to basic principals of form and their application to dance composition will be emphasized. Prerequisite: DAA 1104 or permission of the department. Dance Majors only. (1 hour lecture: 2-4 hour lab)

DAA2107

Advanced Modern 2 2-3 variable credits

Further development of modern dance techniques, creative aspects and theoretical concepts based on Graham, Cunningham, and Limon techniques. Prerequisite: DAA 2106 or permission of the department. May be repeated for credit. Dance Majors only. (1 hour lecture; 2-4 hour lab)

DAA2202

Ballet Dance 2 2-3 variable credits

The continued development of various aspects of ballet technique and terminology. Prerequisite: DAA 1201 or permission of the department. (1 hour lecture; 2-4 hour lab)

DAA2203

Advanced Ballet

Dance 2-3 variable credits

The continued development of various aspects of ballet technique and terminology. Prerequisite: DAA 2202 or permission of the department. May be repeated for credit. (1 hour lecture; 2-4 hour lab)

DAA2206

Ballet 2 2-3 variable credits

Continuing exploration of techniques and theoretical concepts of ballet placing further emphasis on precision of line and exactness of movement. Prerequisite: DAA 1204 or permission of the department. Dance majors only. (1 hour lecture; 2-4 hour lab)

DAA2207

Advanced Ballet 2-3 variable credits

Continuing exploration of techniques and theoretical concepts of ballet placing further emphasis on precision of line and exactness of movement. Prerequisite: DAA 2206 or permission of the department. May be repeated for credit. Dance majors only. (1 hour lecture; 2-4 hour lab)

DAA2293

Ballet for

the Theater 2 1-3 variable credits Music theatre students will continue receiv-

ing an advanced systematic training of the body through a study of the traditional classic ballet vocabulary. Emphasis will continue on longer and more advanced combinations in the center and developing different kinds of movements. (2-6 hour lab)

DAA2361

Skills & Practices in

Social, Folk & Square Dance 2 credits
Designed to provide experiences to develop
performing and teaching skills in the popular and traditional dances of the Americas
and International Countries (1 hour lecture;
2 hour lab)

DAA2502

Jazz Dance 2 2-3 variable credits

Designed to provide experiences in the styles of jazz dance including the utilization of fundamental concepts of alignment, balanced and coordination in relation to the historical development of American Jazz music. Prerequisites: DAA 1104, 1105, 1204 and 1205 or permission of the department. (1 hour lecture; 2-4 hour lab)

DAA2503

Advanced Jazz

Dance 2-3 variable credits

Further development of the concepts described in Jazz Dance 1. Jazz Dance 2 includes but is not limited to work in styles of Jack Cole, Gus Giordano and Luigi. Prerequisite: DAA 1501 or permission of department. (1 hour lecture; 2-4 hour lab)

DAA2570

Modern Dance

for Theater 1 1-3 variable credits

Music theatre students will be receiving training of the body through the study of modern dance vocabulary as developed by the originators of this dance form in the twentieth century. In the first semester concentration will be put on alignment, rhythm and phrasing, introducing the students to the fundamentals of jazz techniques. (2-6 hour lab)

DAA2571

Modern Dance/Jazz for the Theater 2

for the Theater 2 1-3 variable credits Music theatre students will continue receiving training of the body through the study of modern dance vocabulary. In the second semester emphasis will be on develop-

or modern dance vocabulary. In the second semester emphasis will be on developing carriage, rhythm and more advanced phrasing through jazz techniques and styles. Prerequisite: DAA 2570. (2-6 hour lab)

DAA2610

Dance Composition

and Improvisation 1 2-3 variable credits

Individual experience in developing movement phrases and combinations based on solving problems within a form and a movement framework, as well as the movement imagery designed to develop the dancer's creative imagination. Individuals will experience composition using the basic elements of movement theory in an improvisational framework. (1 hour lecture; 2-4 hour lab)



DAA2611

Dance Composition

and Improvisation 2 2-3 variable credits Further exploration of choreographic tools with emphasis on group forms, usage space, and orchestrations of movement. The formal study of compositional principles of choreographic invention with emphasis on developing personal style. Prerequisite: DAA 2610. (1 hour lecture; 2-4 hour lab)

DAA2680

Repertory 1

2-3 variable credits

Dance works in both ballet and many different styles of modern and ethnic dance
vocabularies are studied. Works include
both standard repertory and commissioned
dances. Students work with choreographers,
directors and reconstructors of classic works,
giving the dancer the experience of being
choreographed on and being directed in
repertory works. The works learned are performed by the students in workshop and
public performances throughout the year. (1
hour lecture; 2-4 hour lab)

DAA2681

Repertory 2 2-3 variable credits A continuation of DAA 2680. Prerequisite: DAA 2680. (1 hour lecture; 2-4 hour lab)

DAA2930

Jazz Dance Techniques for the Theatre 1-3

for the Theatre
1-3 variable credits
An advanced level, sophisticated course in
the latest techniques required of jazz dancers. A high degree of bodily flexibility and
the capacity for performing highly stylized
jazz movements with professional polish
are expected of each student. Those without
previous training in jazz dance may be admitted, but only if they display expertise in other
forms of dance. Prerequisite: Permission of
the department. May be repeated for credit.
(1-3 hour lecture)

DAN1500

Practicum in

Dance Production 1 1 credit

Emphasis is on the production aspects of dance. A log of all dance activity and concerns culminating in studio performance will be required. Admission by audition or department placement. (2 hour lab)

DAN1580

Practicum in

Dance Production 2 1 credit

Further emphasis is on the production aspects of dance. A log of dance activity and concerns culminating in studio performance will be required. Prerequisite: DAN 1500 or permission of the department. (2 hour lab)

DAN2100

Dance Appreciation 3 credits

This course is a comprehensive overview of dance as an art form, as entertainment, and as a social activity. Specific dance genres such as ballet, modern dance, jazz dance, and world dance forms and the importance of the roles of dancers, choreographers and the audience will also be the focus of this course.

This course is designed to give the student a foundation level understanding of dance as an art form and its historical and cultural significance from ancient times into the 21st Century. (3 hour lecture)

DAN2130

Dance History 1

3 credits

Study of origins and development of dance as an art form from its inception in primitive cultures to present. (3 hour lecture)

DAN2131

Dance History 2 3 credits

Examine the dance through the ages from the Stone Age participatory dances to the spectator dances of the Orient, the Classical period in Greece and Rome and the Early Middle Ages. Concluding with the historical development of dance forms from the late Middle Ages through the Renaissance into the 20th Century. Emphasis is on the dance as a spectator event and a participatory art in relationship to other arts forms. Prerequisite: DAN 2130. (3 hour lecture)

DAN2430

Laban Movement

Analysis 1 3 credits
An introduction to Rudolf Laban's basic principles of effort, shape and space harmony. The class will explore ways of varying movement dynamics, and will assist the student in discovering the many ways that the body can shape itself and project into space. Prerequisite: Permission of department chair-

DAN2431

Laban Movement

person. (3 hour lecture)

Analysis 2 3 credits

A further study of Laban's basic principles, this course provides insights into one's personal movement style and increases awareness of what movement communicates and expresses. Prerequisite: DAN 2430 or permission of department chairperson. (3 hour lecture)

DAN2630

Literature &

Materials of Music

for Dance 1 2-3 variable credits

This course serves to develop the personal musical interest of choreographers and dance artists. The composition and performance of simple musical works will be taught. Actual hands on skills with dance accompaniment will be developed. (2-3 hour lecture)

DAN2631

Literature &

Materials of Music

for Dance 2 2-3 variable credits

This course provides an intensive survey of the history of music and music for the dance. Touching on the Greek heritage, important composers of the Renaissance to the common practice period will be covered. Careful study of the 20th-Century masterworks concludes the course. Prerequisite: DAN 2630. (2-3 hour lecture)

Dental Hygiene

DEH1002

Pre-Clinical Dental Hygiene 2 credits Introduction to procedures relevant to the practice of dental hygiene. Corequisites: DEH 1002L, 1130, 1130L (2 hour lecture)

DEH1002L

Pre-Clinical Dental

Hygiene Laboratory 2 credits Laboratory for DEH 1002. Corequisite: DEH 1002. Laboratory fee. (6 hour lab)

DEH1133

Dental Anatomy,

Histology and Physiology 2 credits Specific tissues of the oral cavity, head, neck and their embryonic development. The structure, morphology and function of the primary and permanent dentitions are also discussed. Corequisite: DEH 1002L. (2 hour lecture)

DEH1133L

Dental Anatomy

Laboratory 1 credit

This course is designed to allow the dental hygiene student the opportunity to perform laboratory exercises which will enhance the study of dental anatomy, histology, and embryology. Prerequisite: DEH1130. Laboratory fee. (2 hour lab)

DEH1230L

Advanced Radiographic

& Clinical

Assessment Techniques 1 credit

A laboratory course introducing advanced digital radiographic techniques, the intraoral camera, periodontal probing and dental charting software and other clinical assessment tools. These skills will enable the student to provide comprehensive patient treatment and enhance their ability to interpret intraoral conditions. (3 hour clinic)

DEH1400

General and

Oral Pathology

3 credits

Processes of inflammation, necrosis, retrograde changes, diseases caused by bacteria, viruses, and other organisms. Emphasis will be placed on differentiating between normal and abnormal conditions of the oral cavity. Prerequisite: DEH 1130, Des 1200. (3 hour lecture)

DEH1800

Dental Hygiene 1 2 credits

Theory of the removal of hard and soft deposits from the teeth, and other related postoperative and preventive procedures. Prerequisites: DEH 1002, 1002L, 1130; corequisite: DEH 1800L. (2 hour lecture)

DEH1800L

Dental Hygiene 1 Clinic 3 credits Clinic for DEH 1800. Corequisite: DEH 1800. Laboratory fee. Prerequisite: DEH 1002, 1002L; corequisite: DEH 1800. Laboratory fee. (9 hour clinic)

DC 2008-10 CATALOG

DEH1802L

Dental Hygiene 2 Clinic 1 credit Continuation of clinical skills from DEH 1800L. Prerequisites: DEH 1800, 1800L. Laboratory fee. (4 hour clinic)

DEH1804L

Dental Hygiene 3 Clinic 1 credit Designed to further student's knowledge and skills through clinical experiences more difficult than those experienced in DEH 1802L. Prerequisite: DEH 1802L. Laboratory fee. (4 hour clinic)

DEH1811

Professional Issues 2 credits

This course is designed to provide the dental hygiene student with an understanding of the political, social, environmental and professional issues that affect the practice of dental hygiene. These issues include: a) cultural diversity, b) legal and ethical responsibilities, c) sexual harassment, d) child abuse, e) problem solving, f) communication style. Corequisite: DEH 1800L. (2 hour lecture)

DEH1940L

Dental Hygiene 1

Optional Learning Support 1 credit DEH 1940L runs concurrently with DEH 1800L and is designed to enhance student's basic clinical skills and critical thinking abilities. Special emphasis is placed on collaborative learning techniques, effective decision-making, proper time management and self-assessment as students interact with their peers and apply their skills and knowledge in the treatment of clinical patients. (3 hour clinic)

DEH2300

Dental Medicine

and Pharmacy 2 credits
A study of drugs, particularly those which are
used in the practice of dentistry, and the inter-

action of those drugs with other therapeutic agents. Prerequisite: DEH 1400; corequisite: DEH 1802L. (2 hour lecture)

DEH2603

Periodontology 2 2 credits

Etiology, classification, diagnosis, treatment and maintenance of the periodontal patient. Prerequisites: DEH 1400, DEH 1802L. (2 hour lecture)

DEH2603L

Periodontology 2

Laboratory 1 credit Laboratory for DEH 2603. Corequsite: DEH

2603. Prerequisite: DEH 1400; corequisite: DEH 2603. Laboratory fee. (2 hour lab)

DEH2701

Community Dental

Health 1 3 credits
Public Health Dentistry and the role of the
dental hygienist. Prerequisite: DEH 1804L.
(3 hour lecture)

DEH2702L

Community Dental

Health 2 Clinic 2 credits

Provides the student an opportunity for application of the principles of public and community dentistry. Corequisite: DEH 2701. (4 hour field experience)

DEH2806

Dental Hygiene 4 2 credits

Continuation of dental hygiene theory and practice with special emphasis on gingival curettage and root planning. Prerequisite: DEH 1804L; corequisite: DEH 2806L. (2 hour lecture)

DEH2806L

Dental Hygiene 4 Clinic 4 **credits** Clinic for DEH 2806. Corequisite: DEH 2806. Laboratory fee. (12 hour clinic)

DEH2808

Dental Hygiene 5 2 credits

Basic dental and behavioral sciences in the practice of dental hygiene. Special emphasis is given to Florida laws governing that practice. Prerequisites: DEH 2806, 2806L; corequisite: DEH 2808L. (2 hour lecture)

DEH2808L

Dental Hygiene 5 Clinic 4 credits

Ongoing experience in total dental hygiene care of the periodontal involved patient. Prerequisites: DEH 2603, 2603L, 2806L; corequisite: DEH 2808. Laboratory fee. (8 hour clinic)

DEH2933L

Dental Hygiene

Records Laboratory 2 credits
Introduction to computer theory and
application with emphasis on Dental
Hygiene Record Management Prerequisite:
Acceptance into Dental Hygiene Program.
Laboratory fee. (4 hour lab)

DES1200

Dental Radiology 2 c

Techniques and theory for the safe and effective use of radiographs as related to dentistry. Corequisites: DEH 1002, 1002L, DES 1200L. (2 hour lecture)

DES1200L

Dental Radiology

Laboratory 2 credits
Laboratory for DES 1200. Prerequisite:
Acceptance into the Dental Hygiene
Program; corequisite: DES 1200. Laboratory
fee. (4 hour lab)

DES1600

Dental Office Emergency 2 credits

This course is designed to instruct students in the fundamental patient assessment skills needed to identify and manage emergencies that may arise in the dental office. (2 hour lecture)

DES2100

Dental Materials 2 credits

Physical properties of dental materials and their use in the oral cavity. Prerequisite: DEH 2806L, DEH 1130; corequisite: DES 2130L. (2 hour lecture)

DES2100L

Dental Materials

Laboratory 1 credit Laboratory for DES 2130. Corequisite: DES

2130. Laboratory fee. (2 hour lab)

Dental Laboratory Technology

DEH2602

Periodontology 1 1 credit

This course will introduce the student to the concepts of non-surgical periodontal therapy, risk factors in periodontal diseases, classifications of periodontal diseases, the components of the comprehensive periodontal assessment and care plan. Ultrasonic periodontal debridement will be studied. Furthermore, the course will include the study of behavior motivation, the dental hygiene human needs conceptual model, the phases of self-care education and the importance of case presentation in modifying client self-care. (1 hour lecture)

ESL for Academic Purposes

EAP0100

Speech/Listening 1

3 credits

Students develop the ability to understand frequently used words in oral contexts and understand and respond appropriately to simple phrases and questions. (3 hour lecture)

EAP0100L

Speech/Listening 1 Laboratory

1 credit

This lab will give practice in oral production and aural comprehension of spoken American English. This practice will be related, but not limited to the material taught in EAP 1101. (2 hour lab)

EAP0120

Reading Level 1

3 credits

Students develop the ability to comprehend limited written materials. (3 hour lecture)

EAP0140

Writing Level 1 3 credits

Students develop the ability to write appropriate phrases and short sentences on personal topics. (3 hour lecture)

EAP0140L

Writing Level 1

Laboratory 1-3 variable credits

This lab will provide support and additional practices as well as focus on multiskills as students develop their abilities in meeting the competencies of EAP 1141. (2-6 hour lab)

EAP0160

Grammar Level 1 3 credits

Students develop the ability to understand and use basic, high frequency grammatical structures. (3 hour lecture)



EAP0200

Speech/Listening 2 3 credits
Students continue to develop the ability to
understand frequently used words in oral
contexts and understand and appropriately
respond to simple phrases and questions.
(3 hour lecture)

EAP0200L Speech/Listening 2

Laboratory 1 credit Continue to give practice in oral production and aural comprehension of spoken American English. This practice will be related to, but not limited to the material taught in EAP1201. (2 hour lab)

EAP0220

Reading Level 2 3 credits Students develop the ability to comprehend limited written materials. (3 hour lecture)

EAP0240

Writing Level 2 3 credits
Students continue to develop writing skills in
the context of guided discourse on personal
topics with an emphasis on logical thought

EAP0240L Writing Level 2

and mechanics. (3 hour lecture)

Laboratory 1-3 variable credits This lab will provide additional practices as well as focus on multi-skills as students develop their abilities in meeting the competencies of EAP 1141. (2 hour lab)

EAP0260

Grammar Level 2 3 credits Students continue to develop control of basic grammatical structures and statement/question patterns. (3 hour lecture).

EAP0300

Speech/Listening 3 3 credits
Students develop speaking and listening skills
necessary for participating in classroom discussions with an emphasis on clarification
through rewording and asking questions.
(3 hour lecture)

EAP0300L

Speech/Listening 3

Laboratory 1 credit Students practice speaking and listening skills necessary for participating in classroom discussions with an emphasis on clarification through rewording and asking questions. (2 hour lab)

EAP0320

Reading Level 3 3 credits
Students develop the ability to read text
on familiar and basic academic topics with
an emphasis on vocabulary expansion and
application of critical reading skills. (3 hour
lecture)

EAP0340

Writing Level 3 3 credits
Students develop the ability to write basic,
structured academic paragraphs on familiar

topics and execute other academic writing tasks. (3 hour lecture)

EAP0340L

Writing Level 3

Laboratory 1-3 variable credits Students develop the ability to write basic, structured academic paragraphs on familiar topics and execute other academic writing tasks. (1-3 hour lab)

EAP0360

Grammar Level 3 3 credits
Students develop the ability to use intermediate-level grammatical structure appropriate
to classroom discussion and the writing of
academic paragraphs with an emphasis on
increased accuracy. (3 hour lecture)

EAP0400

Speech/Listening 4 3 credits

Students continue to develop speaking and listening skills necessary for participating in classroom discussions with an introduction to oral presentation and critical listening skills. (3 hour lecture)

EAP0400L

Speech/Listening 4

Laboratory 1 credit Students continue to practice speaking and listening skills necessary for participating in classroom discussions with an introduction to oral presentation and critical listening skills. (2 hour lab)

EAP0420

Reading Level 4 3 credits

Students develop academic reading abilities including text on contemporary and literary topics with an emphasis on extensive reading and the enhancement of critical reading skills. (3 hour lecture)

EAP0440

Writing Level 4 3 credits

Students develop the ability to write more sophisticated, structured academic paragraphs in various rhetorical modes and execute other academic writing tasks. (3 hour lecture)

EAP0440L Writing Level 4

Laboratory 1-3 variable credits

Students continue to practice developing to write more sophisticated, structured academic paragraphs in various rhetorical modes and execute other academic writing tasks. (1-3 hour lab)

EAP0460

Grammar Level 4 3 credits
Students develop the ability to use intermediate-level grammatical structure appropriate to classroom discussion and the writing of more sophisticated academic paragraphs

with an emphasis on increased accuracy. (3 hour lecture)

EAP1500

Speech/Listening Level 5 3 credits Students develop communication, organization, and pronunciation skills necessary for effective academic presentation and discussion with an introduction to lecture note taking. (3 hour lecture)

EAP1500L

Speech/Listening Level 5 Laboratory

Laboratory 1 credit Students develop communication, organization, and pronunciation skills necessary for effective academic presentation and discussion with an introduction to lecture note taking. (2 hour lab.)

EAP1501

Accent Reduction 1 3 credits

Students develop the ability to write basic structured academic essays with an emphasis on accuracy and cohesiveness and execute other academic writing tasks. (1-3 hour lecture)

EAP1501L

Accent Reduction 1

Laboratory 1 credit Students improve their pronunciation of

American English including stress, rhythm, and intonation. The phonetic structure of consonant sounds is systematically analyzed, and students are given practice in correctly pronouncing these sounds and patterns in context. (2 hour lab)

EAP1502

Accent Reduction 2 3 credits

Students improve their pronunciation of American English including stress, rhythm, and intonation. The phonetic structure of vowel sounds is systematically analyzed, and students are given practice in correctly pronouncing these sounds and patterns in context. (3 hour lecture)

EAP1502L

Accent Reduction 2

Laboratory 1 credit

Students improve their pronunciation of American English including stress, rhythm, and intonation. The phonetic structure of vowel sounds is systematically analyzed, and students are given practice in correctly pronouncing these sounds and patterns in context. (2 hour lab)

EAP1520

Reading Level 5 3 credits

Students develop the ability to comprehend lengthier texts on diverse academic topics by applying appropriate reading strategies. (3 hour lecture)

EAP1540

Writing Level 5 3 credits

Students develop the ability to write basic structured academic essays with an emphasis on accuracy and cohesiveness and execute other academic writing tasks. (3 hour lecture)

EAP1540L

Writing Level 5

Laboratory 1-3 variable credits Students develop the ability to write basic structured academic essays with an emphasis on accuracy and cohesiveness and execute other academic writing tasks. (1-3 hour lecture)

MDC 2008-10 CATALOG

EAP1560

Grammar Level 5 3 credits

Students develop the ability to comprehend and interpret authentic college-level text in content areas by applying appropriate reading strategies. (3 hour lecture)

EAP1600

Speech/Listening Level 6 3 credits
Students further develop communication
skills necessary for full participation in mainstream college classrooms including comprehension of extensive discourse. (3 hour
lecture)

EAP1600L

Speech/Listening Level 6 Laboratory

Students further develop communication skills necessary for full participation in mainstream college classrooms including comprehension of extensive discourse. (2 hour lab)

EAP1620

Reading Level 6

3 credits

1 credit

Students develop the ability to comprehend and interpret authentic college-level text in content areas by applying appropriate reading strategies. (3 hour lecture)

EAP1640

Writing Level 6 3 credits

Students develop the ability to write a variety of college-level essays with sophistication, fluency, and accuracy and execute other academic writing tasks. (3 hour lecture)

EAP1640L

Writing Level

6 Laboratory 1-3 variable credits

Students further develop the ability to write a variety of college-level essays with sophistication, fluency and accuracy, and execute other academic writing tasks. (1-3 hour lab)

EAP1660

Grammar Level 6 3 credits

Students develop the ability to use complex grammatical structure necessary for effective participation in mainstream college classes. (3 hour lecture)

Economics

ECO1949

Co-op Work

Experience 1: ECO 3 credits

This course is designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

ECO2000

Introduction to

Economics 3 credits

Survey of basic economic principles. Scarcity, choice, entrepreneurship, markets, prices, monetary and fiscal policies, employment, inflation, international trade and socio-economic concerns. This course is designed for non-business majors. (3 hour lecture)

ECO2013

Principles of

Economics (Macro) 3 credits

An overview of basic economic concepts and institutions. Modern national income formation theory, economic fluctuations, money, banking, monetary, and fiscal policy, economic stabilization theory and policy, the public sector, theory of economic growth and development comparative economic systems. (3 hour lecture)

ECO2023

Principles of

Economics (Micro) 3 credits

Theory of markets, price mechanism, production, distribution and resource allocation; application of marginal analysis and equilibrium theory to the price and output decisions of the individual firm in pure competition, monopolistic competition, oligopoly and monopoly; agriculture; labor, rent interest and profits theory; international trade; the economics of change. (3 hour lecture)

ECO2071

Economics Institute

Elementary Education 1 3 credits

This course is designed for Elementary Teachers. It provides coverage of major micro-economic concepts and their infusion into the K-12 curriculum through an activity oriented approach. This course will include those economic concepts required in the minimum Student Performance Standards for Social Studies. These concepts will be handled through various methodologies appropriate for the elementary curriculum. The latest economic education materials will be utilized. (3 hour lecture)

ECO2072

Economics Institute

Elementary Education 2 3 credits

This course is designed for Elementary Teachers. It provides coverage of major macro-economic concepts and their infusion into the K-12 curriculum through an activity oriented approach. This course will include those economic concepts required in the Minimum Students Performance Standards for Social Studies. These concepts will be handled through various methodologies appropriate for the elementary curriculum. The latest economic education materials will be utilized. (3 hour lecture)

ECO2073

Economics Institute

Secondary Education 1 3 credits
Intended Students: Continuing Education
(Secondary Teachers) Intro/Advanced:
Introductory Major Topics: An examination

of the latest ideas and developments in the

study of economics education for secondary school teachers. (3 hour lecture)

ECO2074

Economics Institute

Secondary Education 2 3 credits

This course is designed for Secondary Teachers. It provides coverage of major macro-economic concepts and their infusion into the K-12 curriculum through an activity oriented approach. This course will include those economic concepts required in the minimum Student Performance Standards for Social Studies. These concepts will be handled through various methodologies appropriate for the secondary curriculum. The latest economic education materials will be utilized. (3 hour lecture)

ECO2220

Money & Banking 3 credits

This course examines the monetary system of the United States. It is concerned with the nature, history and functioning of moneycreating depository institutions, including techniques developed for their control and the inter-relations between monetary, price and employment theories. Specifically, the course addresses money and financial distributions, commercial banking, money and macro-economic theory and monetary and fiscal policies. Prerequisite: FIN 2000. (3 hour lecture)

ECO2301

History of Economics Ideas

and Their Consequences 3 credits

An interdisciplinary study with major ele-

ments of economics, philosophy, history, sociology, anthropology, and political science that begins in the agricultural landscape of the 1700s and brings one forward into the age of the corporate giant and the nuclear warfare of modern industrial society. (3 hour lecture)

ECO2949

Co-op Work

Experience 2: ECO 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

Education

EDF1005

Introduction to Education 3 credits
The principles of education with emphasis
on the social historical and philosophical

on the social, historical, and philosophical foundations of public education. This course considers conflicting views, their bases and applications. It meets teacher certification requirements in the area of sociological foundation. (3 hour lecture)



EDF1949 Co-op Work

Experience 1: EDF 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

EDF2060

American Education

in Transition 3 credits

The major areas of change and potential change are reviewed with emphasis on the present and future, topics include finance, management, public attitudes, instruction, curriculum, and the role of the teacher. The course is designed to provide teachers and prospective teachers with insight concerning the direction American education is currently taking. Prerequisite: Sophomore standing. (3 hour lecture)

EDF2080 Comparative European

Education 3 credits

A study of the social, historical, and cultural factors which have made for the differential development of educational institutions and organizations in Europe. Emphasis on the French education system, with attention to other European countries and the United States. Visits to local French educational institutions. Given in English. Level 1. Offered through Overseas Study Program. (3 hour lecture)

EDF2090

Current Issues in Education: The Role of

the Paraprofessional

This course is designed to present an overview of the changing role of the paraprofessional in education. It provides current information about employment requirements as well as state, district and school policies. It explores the legal and ethical issues related to the paraprofessional involvement with teachers, students, parents, and administration. Students taking this course will become familiar with a variety of documentation used in the classroom environment to record learner behavior in grades K-12. (3 hour lecture)

EDF2930

Special Topics 1 credit

This course is designed to provide participants with the knowledge, skills, and dispositions necessary to function successfully as a temporary instructor in the Miami Dade County Public Schools K-12 program. The course includes district polices and procedures regarding safety of students and staff, Code of Student Conduct, Classroom

Management, Corporal Punishment, HIV/ AIDS, Dress Code for Staff and Students, Child Abuse Reporting, District Curriculum Mandates, Comprehensive Reading Plan, and other topics of current district emphasis. Other topics include: diversity of MDCPS students and strategies for success; national, state and local standards and expectations of teaching performance; Florida Code of Ethics; educational liability laws and issues; general teaching strategies for elementary (preK)-5, middle school (6-8), senior high (9-12); classroom management and student discipline strategies; special education programs, settings, and student needs; beginning a file of activities that can be used across subjects and grade levels. (1 hour lecture)

EDF2949

Co-op Work

Experience 2: EDF 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

EDF3111

and Learning

Human Development

3 credits

This course is designed to familiarize the student with principles of learning theories and student development and their application to teaching/learning. Self-concept, motivation, specific language and cultural needs, teaching and learning styles, learning abilities and disabilities, as well as views of intelligence and assessment are examined. Opportunities are provided to analyze teaching/learning situations and develop multiple strategies of instructional delivery. Emphasis is placed on the interaction between the role of the teacher and the needs of students at various developmental ages and stages. A minimum of 10 hours of observation/teaching specifically related to principles of learning and development are required. Prerequisite: DEP2000 or PSY2012. (3 hour lecture)

EDF4430

3 credits

Measurement, Evaluation,

and Assessment

in Education 3 credits

This course is designed to familiarize the student with principles of traditional and alternative assessment strategies, including behaviorist, constructivist and transpersonal measures. Topics include ensuring equity with authentic assessments, rethinking assessment and its role in supporting educational reform, integrating assessment and instruction in ways that support learning, reporting assessment results and assessing the learner's progress appropriately. In addition, the course

will highlight acquiring an understanding of the content measured by state achievement tests, reading and interpreting data and using data to improve student achievement. Finally, the course will enable the match of instructional strategies to the learner's cognitive, social, linguistic, emotional and physical needs. Prerequisite: Probability and Statistics. (3 hour lecture)

EDG2311

Substitute Training 1 credit

Provides students with the necessary knowledge, skills, and dispositions to successfully serve as temporary instructors for the Miami-Dade County Public School (M-DCPS) Board. The course provides best practices in classroom management and effective teaching strategies; key items of M-DCPS Board policy and Florida statutes; and the Code of Ethics and Principles of Professional Conduct of the Education Profession in Florida. (1 hour lecture)

EDG2370 Introduction to Teaching

Reading and Language

Arts for Paraprofessionals 3 credits
The student will become familiar with a variety of teaching strategies by being involved in discussions, collaborative planning, group projects, role playing, and problem solving. In addition, this course will provide current research and practice and demonstrate instruction in preparing learners to develop as readers and writers. The student will also learn a variety of assessment tools that are aligned with the Sunshine State Standards and the Competency Based Curriculum. A minimum of 10 hours of structured field

experience is required. (3 hour lecture)

EDG2372

Introduction to Teaching

Mathematics and Science for Paraprofessionals

for Paraprofessionals 3 credits
This course provides an introduction to theoretical and practical frameworks for enabling
the learning of mathematics and understanding the scientific process using approaches
to accommodate diverse student population. The course also presents best practices
(methods and strategies) specific to Florida's
Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline. A minimum of 10 hours of structured
field experience is required. Pre/corequisites:
BSC 1005, MAC 1005. (3 hour lecture)

EDG2701

Diverse Populations 3 credits

This course assesses the breadth and complexity of America's diverse student population. The course focuses on both theoretical and practical knowledge. As part of this course, the students will complete the statemandated fifteen (15) hour diverse population field experience component. (3 hour lecture)

00 2008-10 CATALOG

1-3 variable credits

3 credits

EDG2943 Field Work

Educational Service

Designed to give participants various educational experiences in the schools under the supervision of professional personnel. The student is expected to log a total of 40-120 hours doing paraprofessional-type work in the school setting and may work at any level of instruction. May be repeated for credit. (1-3 hour lecture)

EDG3410 Classroom Management and Communication K-12

This course is designed to familiarize the student with the basic skills and knowledge needed to develop practical strategies and techniques to create a positive and cooperative classroom climate for maximum learning. The course emphasizes organization and management of multiple learning environments and multiple approaches to instructional delivery. This includes alternative instructional strategies such as, but not limited to, collaborative learning, peer tutoring, linked course and coordinated studies learning communities. In addition, the course stresses the influence of environmental factors on behavior, the accountability of students for their own behavior, and an analysis of the legal and ethical issues pertaining to positive behavioral management strategies and disciplinary actions. Finally, the course emphasizes the cognitive, linguistic, affective and cultural needs of individual students so that teachers may design safe and appropriate instructional settings. A minimum of 10 hours of observation/teaching specifically related to principles of learning and development are required. Prerequisite: EDF 3111 (3 hour lecture)

EDG4376

Integrated Language **Arts And Social Sciences** 3 credits

This course provides an overview of current methods of instruction in Language Arts and Social Sciences, with emphasis on the writing process, and strategies to make the curriculum accessible to diverse students including those with various disabilities and LEP students. Practical experience in curriculum, instruction, and assessment will be provided. Addresses Sunshine State Standards, Educator Accomplished Practices, and pedagogy pertinent to specific disciplines required for certification and the Council for Exceptional Children's Content Standards for all Beginning Special Education Teachers. Minimum 20 hours structured field experience required. (3 hour lecture)

EDG4377

Integrated Mathematics and Science

This course focuses on specialized methods for the creation of instructional curricula and appropriate pedagogic methods for students with disabilities in grades K-5. The development of curricula and the use of instructional approaches that correspond to the

3 credits

capabilities and styles of the various learners will be emphasized. This course meets the guidelines of the Educator Accomplished Practices, and incorporates the council for Exceptional Children's Content Standards for All beginning Special Education Teachers. A minimum 20 hours of structured field experience required. Prerequisites: EDF 3111, EEX 3010. (3 hour lecture)

Special Topics in

Education: FEAPs & Portfolio This is an introductory seminar designed to acquaint candidates with portfolios, portfolio development, the Florida Educator Accomplished Practices (FEPs), and the portfolio assessment process. Teacher candidates are exposed to the theory and practice of standards-based professional portfolios. (1 hour lecture)

EEC1000

Introduction to

Early Childhood Education 3 credits Introduction to Early Childhood Education is the first in a sequence of four courses in Early Childhood Education. The major areas of study include: Early Childhood history, societal and family influences on young children, child growth and development, techniques of observing and recording behavior, recognition of and dealing with physical child abuse, characteristics of quality programs and teachers. (The modules on child development, guiding behavior, and physical child abuse satisfy H.R.S. requirements as mandated by the State of Florida.) EEC 1000 combines three hours per week in the college classroom with a supervised field experience of at least forty hours per semester. Prerequisite: Must earn a grade of C or batter. (3 hour lecture)

EEC1001

Introduction to Early Childhood Infant/

Toddler Education

This is a foundation course in early childhood education and services for young children and their families. Students will learn historical roots, societal changes, program differentiation, and future trends. (3 hour lecture)

EEC1200

Early Childhood Curriculum 1 3 credits

Early Childhood Curriculum 1 is the second in a sequence of four courses in Early Childhood Education. EEC 1200 enables students to understand how appropriate curriculum planning aids in the advancement of children's social, emotional, physical and intellectual development. The specific curriculum areas of Social Studies, Self-Concept Development, Math, Language and Literacy are covered along with play, room arrangement, scheduling, classroom management, and lesson planning. (The modules on antibias curriculum and age appropriate activities satisfy H.R.S. requirements as mandated by the State of Florida.) EEC 1200 combines three hours per week in the college classroom with a supervised field experience of at least 40 hours per semester. Pre/corequisite: EEC 1000 must earn a grade of C or better. (3 hour lecture)

EEC1311

Early Childhood

Curriculum 2 3 credits

Early Childhood Curriculum 2 is the third in a sequence of four courses in Early Childhood Education. The course enables students to understand how appropriate curriculum planning aids in the advancement of children's social, emotional, physical and intellectual development. The specific curriculum areas of Science, Cooking, Health, Safety and Nutrition, and Art, Music and Movement are included along with motor development, play, and creativity. The course will emphasize fostering effective family/school relationships. (The modules on age appropriate activities and sexual child abuse satisfies H.R.S. requirements as mandated by the State of Florida.) This course combines three hours per week in college classroom with a supervised field experience of at least 40 hours per semester. Pre/corequisite: EEC 1000 must earn a grade of C or better. (3 hour lecture)

EEC1500

Infant and

Toddler Development 3 credits Infant and Toddler Development is a course designed for Early Childhood professionals

who want to expand their knowledge of the very young child. The course will focus on the physical, emotional, cognitive and social growth of the child from birth to age three. It will explore the characteristics of quality child care environments and the qualities appropriate for adults who care for infants/ toddlers in group settings. (3 hour lecture)

EEC1522

3 credits

Infant and

Toddler Environments 3 credits This is a foundation course for planning the

physical facilities, equipment and materials for quality infant and toddler environments. Students will learn how the physical environment affects development of children and supports individual differences. (3 hour lecture)

EEC2002

Operation of

an Early Childhood Facility 3 credits This course will provide opportunity for Administrators of early childhood facilities to develop and enhance their leadership role in designing and implementing qual-

ity early childcare and education programs. Areas to be covered include organizational leadership and management, programming and financial and legal issues. This course meets the requirements for the Florida Child Care and Educational Program Administrator Foundational Level Credential and can be used toward the Advanced Level of this credential. (3 hour lecture)



EEC2202

Program Development

in Early Childhood Education 3 credits Program development in Early Childhood Education is the fourth in a sequence of four courses in Early Childhood Education. The course is primarily concerned with the investigation of effective Early Childhood programming and includes the major areas of the learning environment, disadvantaged children, federal and state programs, special needs and at risk children, current model programs, rules and regulations, and professionalism. Assessment of children and reporting of progress will be examined. The course will emphasize the fostering of effective family/ school relationships. (The module on rules and regulations satisfies H.R.S. requirements as mandated by the State of Florida.) The course combines three hours per week in the college classroom with a supervised field experience of at least 40 Hours per semester. Prerequisite: EEC 1000 must earn a grade of C or better. (3 hour lecture)

EEC2407

Facilitating Social

3 credits Development

This course provides a general introduction to promoting social competency in young children. The major areas of study include: current brain research, developing empathy, creating prosocial classroom environments, developing self-control and the study of current classroom models of behavior guidance. (3 hour lecture)

EEC2520

Early Childhood Organization Leadership

and Management 3 credits

This course is designed to provide potential and current child care administrators the opportunity of satisfying one of the educational requirements for the Advanced Level Child Care and Education Administrator Credential as defined by the State of Florida. It is intended to present the needed skills and information in the following areas: organizational structure and dynamics; ethics and professionalism; leadership personnel policies and relationships; and the evaluation and retention involved in staff development. Prerequisite: Florida 40 hour Introductory Child Care Course and Child Development Associate, CDA equivalency or above. (3 hour lecture)

EEC2524

Child Care

Education Programming 3 credits Management

This course is one of four courses required for a Florida Advanced Level Credential in Child Care Management. The competencies include developmentally and culturally appropriate environments for childcare centers; developmentally and culturally appropriate curriculum for childcare centers; professional standards for child care managers; child observation, assessment, documentation and referral in child care centers; health, safety and nutrition practices in childcare centers; and alliances with the families of children enrolled in childcare centers. Prerequisite: Florida 40 hour Introductory Childcare Course and Child Development Associate (CDA), Child Development Associate Equivalent (CDAE) or above. (3 hour lecture)

EEC2527

Legal & Financial

Issue in Child Care 3 credits

This course will provide opportunities for administrators or future administrators of early childhood facilities to develop and enhance knowledge in financial and legal issues in the design and implementation of quality early care and education programs. Areas to be covered include financial planning and on-going monitoring, budgeting and accounting, compensation and benefits, facilities and equipment, financial resource development and marketing, technology and record-keeping, legal obligations, tax law, insurance and licensure, regulatory requirements and personnel law. This course meets the requirements for one of the three courses required for Florida child Care and Education Program Administrator Advanced Level Credential. (3 hour lecture)

EEC2700

Developing Curriculum

development. (3 hour lecture)

for Infants and Toddlers 3 credits This is a foundation course in developing appropriate curriculum and learning opportunities for infants and toddlers. Students will learn health, safety, physical, social, emotional, cognitive, language and communication

EEC2931

Early Childhood

Curriculum 2 3 credits

PERKS Assessment course provides foundational knowledge in observation & assessment, methods & Voluntary Pre-Kindergarten Standards. (3 hour lecture)

EEC2932

Early Childhood Curriculum: Mind

in the Making

PERKS Assessment course provides foundational knowledge in observation & assessment, methods & Voluntary Pre-Kindergarten Standards. (3 hour lecture)

EEC2935

Special Topics in Early **Childhood Administration** 3 credits

Special topics in Early Childhood Administration is a course designed for administrators of programs for young children. It provides current information about child care management and establishes a meaningful support group where administrators can discuss their specific problems under the guidance of an early childhood professional. The course explores such topics as effective supervision, behavior management regulations, in-service teacher training, conferencing with staff and parents, record

keeping, legal concerns, financial concerns, and community resources. (3 hour lecture)

EEX2000

Introduction to

Special Education 3 credits

A survey designed to familiarize prospective teacher aides, assistants, parents, and teachers with the educational, social, physical, and physiological bases of children's exceptional needs. These include: giftedness, physical limitations, visual and hearing impairments, mental retardation, and communication disorders. (3 hour lecture)

EME2040

Introduction to

Educational Technology 3 credits

This course is an applications and theory course designed to familiarize students with various technologies and their uses in education. Prerequisite: EDF 1005. (3 hour lecture)

ESE1330

Introduction to

3 credits **Multicultural Education**

Introduction to Multicultural education is an educational foundations course drawn heavily from social sciences to introduce important multicultural concepts that serve the dual function of providing motivation and content. (3 hour lecture)

FLE2316

Survey of Elements

of Language Acquisition 3 credits

This course provides an introduction to major elements of first and second language acquisition. Course activities are designed to increase students' understanding of ways to improve the quality of language teaching and learning and to expand their communication and critical thinking skills. Course assignments are designed to enhance students' skills in creating a positive learning environment for all K-12 learners, including those at-risk and those from diverse language backgrounds. A minimum of 10 hours of structured field experience is required. (3 hour lecture)

Education Foundations & Policy Studies

3 credits

Nature and Needs of

Exceptional Students K-12 3 credits

This course is designed to familiarize the student with the etiology, terminology, categories, prevalence, behaviors, characteristics and pedagogical approaches of exceptional students, with the expectation that all students have learning strengths. Students will demonstrate Educator Accomplished Practices in this course. Council for Exceptional Children's Content Standards for All Beginning Special Education Teachers are addressed. Minimum 20 hours structured field experience required. (3 hour lecture)

00 2008-10 CATALOG

EEX3101 Survey of Normal/Abnormal Language and Speech

1 credit

This course is a survey of normal language and speech development, an overview of major communication disorders and supportive strategies for classroom teachers. (1 hour lecture)

EEX4221 **Educational Assessment** of Exceptional Students

with Disabilities K-5 3 credits

This course is a study of theory and practice of informal and formal assessment of behavior and/or learning problems. Practice with evaluation instruments and curriculum based assessment strategies are key components of the course. Use of assessment information in designing academic K-12 curriculum plans is taught. (3 hour lecture)

EEX4264 **Curriculum and Instructional** Strategies for Students

with Disabilities K-5 3 credits

This course focuses on specialized methods for the creation of instructional curricula and appropriate pedagogic methods for students with disabilities in grades K-5. The development of curricula and the use of instructional approaches that correspond to the capabilities and styles of the various learners will be emphasized. This course meets the guidelines of the Educator Accomplished Practices, and incorporates The Council for Exceptional Children's Content Standards for All Beginning Special Education Teachers. A minimum 20 hours of structured field experience required. Prerequisites: EDF 3214, EEX 3111. (3 hour lecture)

EEX4265 **Curriculum and Instructional** Strategies for Students

with Disabilities 6-12 3 credits This course focuses on specialized methods

for the creation of instructional curricula and appropriate pedagogic methods for students with disabilities in grades 6-12. The development of curricula and the use of instructional approaches that correspond to the capabilities and styles of the various learners will be emphasized. This course meets the guidelines of the Educator Accomplished Practices, and incorporates the Council for Exceptional Children's Content Standards for All Beginning Special Education Teachers. A minimum 20 hours of structured field experience required. Prerequisites: EDF 3214, EEX 3010. (3 hour lecture)

EEX4601

Effective Behavioral Practices & Interventions in Exceptional 3 credits **Student Education**

This course is designed to familiarize the students with the educational management of exceptional learners. Emphasis is on behavior practices and consultation skills leading to students managing their own behavior. Strategies to create and maintain safe, healthy environments for learning in exceptional and inclusive classrooms are presented. Students will demonstrate the Educator Accomplished Practices in this course. The Council for Exceptional Children's Content Standards for All Beginning Special Education Teachers are addressed. Prerequisites: EDF 3111, EEX 3010. (3 hour lecture)

EEX4940 Student Teaching/Exceptional **Student Internship**

and Seminar 12 credits

This course requires a pre-service teacher to demonstrate professional competencies during one semester of full day internship in a public school. Prerequisites: EEX 4264, 4265. (3 hour lecture; 9 hour lab)

MAE3320 Interactive

Middle School

Mathematics Projects 3 credits In this course students learn principles of effective lesson planning, curriculum design and assessment. Students apply these principles by designing lesson plans, evaluating learning materials and resources, exploring a variety of teaching strategies to accommodate diverse needs and developing interactive mathematics curriculum projects for middle school students. The course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required for certification.

Prerequisite: MAC 2312 or department per-

MAE4330

Instructional Methods in Secondary Mathematics

mission. (3 hour lecture)

Using Technology 3 credits This course addresses the required instructional methods, techniques, strategies, resources, and assessment considerations for effective teaching of secondary mathematics classroom. It also incorporates appropriate technology to support the learning of mathematics. This course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required for certification Prerequisite: MAC 2312 or department approval. (3 hour lecture)

MAE4642 Applied Research in

Teaching and **Learning Mathematics** 3 credits

This course evaluates and applies researchbased evidence of cognitive and affective factors that impede or enhance learning (e.g., learner characteristics, what makes learning a particular concept difficult, and teaching methodologies for specific content areas) to the teaching of mathematics. It includes pedagogical reflection, problem solving, active learning strategies, physical and visual materials, print and electronic resources and effective questioning and communicating. This course addresses specific Sunshine State Standards, subject matter competencies and pedagogy pertinent to the discipline and required for certification. Prerequisites: EDF 3111 and MAC 2312 or department permission. (3 hour lecture)

MAE4945

Student Teaching

in Secondary Mathematics 12 credits This course requires a pre-service teacher to demonstrate professional competences during one semester of full day internship in a public school. Prerequisites: MAE 3320, 4330,

MHF4404

History of Mathematics 3 credits

4642. (3 hour lecture; 9 hour lab)

A study of the development of mathematics from ancient civilizations to the present time. Prerequisite: MAC 2312 or approval of department. (3 hour lecture)

SCE4362

Methods of

Teaching Science 1 3 credits

This course is designed to help the student gain the knowledge and skills necessary to become an effective teacher in the area of secondary and middle school science, including chemistry, physics, biology and earth sciences. The student will develop a theoretical basis for science education, learn practical applications of the theory, become familiar with modern instructional methods and programs in science education, and develop effective methods of assessment for a variety of evaluation modes. Twenty hours (20) of field experience is required to successfully complete this course. Prerequisites: EDF 3111. (3 hour lecture)

SCE4363

Methods of

Teaching Science 2 3 credits

This course is designed to help the student gain the knowledge and skills necessary to become an effective teacher in the area of secondary and middle school science, including chemistry, physics, biology and earth sciences, with an emphasis on laboratory instruction. The student will develop a more complete theoretical basis for science education including the needs of exceptional students, learn practical applications of the theory, become familiar with modern instructional methods and programs in science education, and develop effective methods of assessment for a variety of evaluation modes. Twenty hours (20) of field experience is required to successfully complete this course. Prerequisite: SCE 4362. (3 hour lecture)

SCE4945

Student Teaching/Student Internship-Science

This course requires a pre-service teacher

12 credits

to demonstrate professional competencies during on semester of full day internship in a public school. Prerequisites: SCE 4362, 4363. (3 hour lecture; 9 hour lab)



Education: Preparation of Sign Language Interpreters

Interpreting Ethics

3 credits

and Professionalism The course provides an overview of the career of sign language interpreter. Included are the interpreter's role and responsibilities, Code of Ethics issues, evaluation systems for determining competency and logistical considerations. Various statutes will be examined with regard to their implications for interpreting and related services. These include The American with Disabilities Act (ADA), the education for all Handicapped Children Act and the Rehabilitation Act. Prerequisites: SPA 1613C, 1630. (3 hour lecture)

INT1240

Voice to

Sign Interpreting 3 credits In-depth discussion and application of techniques and principles for interpreting situations in educational, social service, free-lance interpreting and the business aspects of interpreting. Prerequisites: EHD 1400, SPA 2614C. (3 hour lecture)

INT1202

Sign to

Voice Interpreting 3 credits

In-depth discussion and application of techniques and principles for interpreting situations in legal, medical, oral and deaf/blind. Prerequisite: EHD 1401, SPA 2614C. A.S. degree credit only. (3 hour lecture)

INT1400

Educational Interpreting 3 credits Provides an overview of the field, including the role and responsibilities of educational interpreters, their working conditions and related issues. Also covered are evaluation systems for educational interpreters and the Florida Educational Code of Ethics. Opportunities for skill building will be included with emphasis placed on signing with conceptual accuracy, mastering various sign systems and developing expertise in the use of technical signs. (3 hour lecture)

EHD1480

Interpreting: Special

Settings & Populations 3 credits

The course examines various settings in which interpreters work. These include social service and rehabilitation, employment-related, mental health and substance abuse treatment, religious, performing arts, legal and other settings. Also considered are specific deaf and hard of hearing consumers who present unique challenges for interpreters such as oral deaf persons, people who are both deaf and blind and those who would be classified as having minimal language skills (MLS). The course includes lecture and skill building opportunities. Prerequisites: EHD 1400, SPA 2614C. (3 hour lecture)

INT1941

Interpreting Internship 5 credits

The course includes field observation and supervised practical interpreting experience in a one-to-one interpreting situation in the community. The student is assigned to a practicing interpreter who acts as a mentor for the duration of the internship. A minimum of 240 hours is spent in the internship experience. This includes meetings with college staff and the interpreter/mentor. Prerequisites: All courses in the subject major must have been completed prior to enrolling in this course. (240 hrs.)

Educator Preparation Institute

Classroom Management

This segment prepares the participant to generate and maintain a record keeping system, establish classroom policies and procedures, plan and conduct lessons in a variety of learning environments, create objective-based lesson plans, develop effective communication skills, create and administer various forms of assessment, integrate Sunshine State Standards into lesson development and apply the code of ethics and school law. (3 hour lecture)

Instructional Strategies 3 credits

This segment prepares the participant to employ varied teaching strategies, utilize diverse styles on presentations, create questions that address all levels of the cognitive domain, create lesson plans including objectives, anticipatory set, practice and assessment, develop skills to manage individual and classroom behavior, accommodate exceptional students in the classroom, and research professional literature to seek best practices and hone the craft of effective instruction. (3 hour lecture)

EPI0003

Technology 3 credits

This segment prepares the participant to develop a web page, incorporate technology in the classroom, utilize curriculum integrating strategies, employ technology to accomplish instructional objectives, develop and adopt technology-based curriculum materials, and evaluate ethical issues related to the use of technology in the classroom. (3 hour lecture)

EPI0004

The Teaching

3 credits & Learning Process

This segment provides the participant with an understanding of learning theories, student motivation and persistence, exceptionalities, standardized testing, critical thinking, multiple intelligences, and second language acquisition. (3 hour lecture)

Foundations of Research-

Based Practices in Reading This module provides substantive knowledge of language structure and function and cognition of phonemic awareness, phonics, fluency, vocabulary, and comprehension. Further, it provides knowledge of the integration of the reading components. Instruction in this module is grounded in scientifically-based reading research as a mechanism to inform instructional practice. (3 hour lecture)

Professional Foundations 2 credits

This module provides the foundation for becoming a productive member of the teaching profession. The participants will gain understanding of the organization and administration of the public school, the laws governing teachers, the code of ethics, and the purpose of schools. This module develops a professional perspective and creates a sense of grounding in the profession of teaching. Corequisite: EPI 0940. (2 hour lecture)

EPI0030

Diversity 2 credits

This module provides the participant with an understanding of the variety of backgrounds and cultures that may be found in a typical classroom. Field experiences give a broader view of the social aspects of diversity and cause the participant to reevaluate personal beliefs and prejudices that may adversely affect the learning process. Corequisite: EPI 0945. (2 hour lecture)

EPI0940

Field Experience 1 credit

Participants will complete a series of experiences designed to give prospective teachers a perspective on effective learning environments, educational strategies, and classroom management principles. Cohorts will meet together to discuss these experiences and to relate them to their observations of students as well as student behaviors and interactions in the schools. Corequisite: EPI 0020. (1 hour lecture)

EPI0945

Field Experience 1 credit

Participants will complete a series of experiences designed to give prospective teachers a perspective on effective learning environments, educational strategies, and classroom management principles. Cohorts will meet together to discuss these experiences and to relate them to their observations of students as well as student behaviors and interactions in schools. Corequisite: EPI 0030. (1 hour

Emergency Medical Services

EMS1059

1st Responder

Emergency Care 1 credit

Provides training in emergency medical care for those who may be first to respond to an accident. The course meets the basic requirements of the U.S. Department of Transportation. Recommended for students who are not required to be certified EMTs. A.S. degree credit only. Prerequisite EMS 1059L. Special fee. (2 hour lecture)

MDC 2008-10 CATALOG

EMS1059L 1st Responder Emergency Care Laboratory

1 credit

Provide training in emergency medical care for those who may be first to respond to an accident. The course meets the basic requirements of the U.S. Department of Transportation. Corequisite: EMS 1059. A.S. Degree credit only (2 hour lab)

EMS1119

Emergency Medical

Technician 4 credits
A review of basic life support theory. Areas
of emphasis include the prehospital environment, preparatory information, patient
assessment, medical emergencies, behavioral
emergencies, OB/GYN emergencies, trauma
emergencies, pediatric emergencies and EMS
operations. Corequisites: EMS 1119L, EMS
1431.(4 hour lecture)

EMS1119L

Emergency Medical

Technician Lab and Clinic 2 credits
Practical application of the content covered
in EMS 1119 with an emphasis on cardiopulmonary resuscitation, splinting, bandaging, patient movement, and other skills as
recommended by the U.S. Department of
Transportation for the EMT-A level practitioner. Corequisites: EMS 1119, 1431. Laboratory
fee. A.S. degree credit only. (8 hour lab)

EMS1431 EMT Hospital/Field

Experience 3 credits

Practice in local emergency departments and rescue agencies under professional supervision. This course meets the skills recommended by the U.S. Department of Transportation. Corequisite: EMS 1119, 1119L. A.S. degree credit only. (9 hour clinic)

EMS1731

Cardiopulmonary Resuscitation

Instructor Certification 1 credit

Designed to prepare CPR certified rescuers to become CPR instructors. The course includes backgroundmaterial and instructional methodologies. Prerequisite: Current American Heart Association Cardiopulmonary Resuscitation (CPR) Basic Rescuer's Certificate. A.S. degree credit only. (1 hour lecture)

EMS2311

Emergency Medical

Operations 3 credits
Advanced theory of management operations
currently used nationally by comprehensive
emergency medical service systems. Legal
issues as related to various aspects of the
system, personnel policies, provider versus
client roles, disaster planning, communications, budgeting and evaluation of the system
will be discussed. Prerequisite: MNA 1345.A.S.

degree credit only. (3 hour lecture)

EMS2395

Emergency Medical

Services Seminar 1 credit

Current topics and trends for the Emergency Medical Services (EMS) provider. Support materials requested. A.S. degree credit only. (1 hour lecture)

EMS2601

Paramedic Lecture 1 8 credits

EMS2601 is the first course in the sequence necessary for completion of the Paramedic Certificate program. The course is designed to reinforce concepts and clinical skills learned at the EMT level and to integrate this knowledge beginning with advanced life support concepts and skills. Emphasis is placed on EMS systems, illness and injury prevention, medical-legal issues, patient assessment, airway management and ventilation, pathophysiology, pharmacology, shock, decision-making, and the management of trauma related injuries. This course includes Modules 1-4 of the 1998 DOT National Standard Curriculum for Paramedic Programs. Prerequisites: EMS 2601L, 2664. A.S. degree credit only. (8 hour lecture)

EMS2601L

Paramedic Laboratory 1 4 credits A review of basic life support practice

and an introduction to advanced life support practice. Areas of emphasis include the patient assessment, trauma emergencies, obstetric emergencies, gynecological emergencies, pediatric emergencies and psychiatric emergencies. Students will be expected to master the techniques of patient assessment, intravenous techniques and endotracheal intubation. Corequisite: EMS 2601, 2664. Laboratory fee. (8 hour lab)

EMS2602

Paramedic Lecture 2 8 credits

EMS 2602 is the second course in the sequence necessary for the completion of the Paramedic Certificate Program. This course is designed to reinforce and expand upon the material and skills learned in Paramedic 1 level and to integrate prior learning with enhanced life support concepts and skills. Emphasis is placed on patient assessment and recognition of significant findings, prehospital diagnosis and differential diagnosis, treatment strategies, anatomy and physiology, pathophysiology, and the management of various emergencies, patients with special challenges, assessment based management, and EMS operations. This course includes Modules 5-8 of the 1998 DOT National Standard Curriculum for Paramedic Programs. Prerequisites: EMS 2602L, 2665; Corequisites: EMS 2601, 2601L, 2664. A.S. degree credit only. (8 hour lecture)

EMS2602L

Paramedic Laboratory 2 4 credits Continuation of advanced life support practice. Areas of emphasis include the patient assessment, trauma emergencies, obstetric emergencies, gynecological emergencies, pediatric emergencies and psychiatric emergencies. Students will be expected to master the techniques of patient assessment, intravenous techniques, endotracheal intubation, and advanced life support. Corequisites: EMS2602, 2665. Laboratory fee.A.S. degree credit only. (8 hour lab)

EMS2659

EMS-Field Internship

and Conference

8 credits

A supervised clinical experience on an advanced life Support (ALS) vehicle. The student obtains increasing patient care responsibilities as a working member of the EMS team under the direct supervision of a designated preceptor. Prerequisites: EMS 2601, 2601L, 2602, 2602L, 2664, 2665. A.S. degree credit only. (24 hour clinic)

EMS2664

Paramedic Clinic 1 3 credits

EMS 2664 is designed to allow the students "hands-on" practice of the skills and theories learned in EMS 2601 and 2601L. Clinical experience will take place in many areas including the emergency department, operating room and medical examiner's office. All patient care experience will be practiced under the direct supervision of a medical professional (Paramedic, Nurse, Physician, etc.). Corequisites: EMS 2601L, 2601. A.S. degree credit only. (9 hour lab)

EMS2665

Paramedic Clinic 2 3 credits

EMS 2665 is designed to allow the students "hands-on" practice of the skills and theories learned in EMS 2602 and 2602L. Clinical experience will take place in many areas including the emergency department, operating room and critical care unit. All patient care experience will be practiced under the direct supervision of a medical professional (paramedic, Nurse, Physician, etc.). Corequisites: ENS 2602, 2602L. A.S. degree credit only. (9 hour lab)

Engineering - General

EEL2114C

Engineering Circuit Analysis 4 credits
Basic electrical quantities, sources and elements, power and energy, Kirchoff's law, network solution impedance, transfer functions, plane, periodic and exponential excitation functions, phasor algebra, natural and forced system response, total response, frequency response, resonance, magnetic circuits, physical electronics, operation of electronic devices, principles of electromechanical energy conversion. Prerequisites: MAC 2311, PHY 2049. (2 hour lecture; 4 hour lab)



EGN2033 Civilization &

Engineering 1 3 credits

This course is designed for students who are interested in learning about the impact of technology on people and society. Students learn about changes in human culture and quality of life as a result of technological innovation. Topics include important developments and trends in technology, the interaction between people and technologies, contemporary events in technology and their impact on society, the role of the engineer in designing and promotion of new technologies, and how to evaluate the social, ethical, political, and economic implications of existing and emerging technologies. (3 hour lecture)

EGN2037 Civilization &

Engineering 2 3 credits

A historical study on the development of engineering-related technology and its impact on society from the industrial revolution to the present. From the steam engine to the microcomputer, relationships between technological and social change are explored with emphasis on how the development of materials, methods and tools affected man and the growth of civilization. (3 hour lecture)

EGS1001C Introduction to

Engineering 3 credits

An introduction to the opportunities, challenges, and required skills of the engineering profession. Students explored the different disciplines of engineering, their function in industry, and required education. Professional issues such as registration, ethics, safety, and design are discussed. Projects and activities are used to develop problem solving, communication and computer skills (word-processing, spreadsheets, presentations, mathematical analysis, email, Internet). Prerequisite: MAC 1105. (3 hour lecture)

EGS1111C

Engineering Graphics 5 credits

Drafting theory, lettering, geometric construction, orthographic and pictorial sketching and drawing are included together with descriptive geometry. Required for all professional engineering students. Laboratory fee. (3 hour lecture; 4 hour lab)

EGS1949

Co-op Work

Experience 1: EGS 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

EGS2020

Engineering Measurement

and Computations 3 credits

The Scientific Electronic Calculator is used as a fundamental engineering tool the student develops confidence and speed by working on problems taken from geometry, mechanics, and interest calculation. (3 hour lecture)

EGS2311

Engineering Mechanics

- Static's (With Vectors) 4 credits

This is a foundation course in engineering mechanics. Students learn the basic principles of static's covering resultants, equilibrium, trusses, frames, friction, centroids and moments of inertia with vector notation and calculus. The content prepares students for further study in engineering dynamics. Laboratory fee. Prerequisites: MAC 2311, PHY 2048 or equivalent. (3 hour lecture; 2 hour lab)

EGS2321

Engineering

Mechanics-Dynamics 4 credits

This course provides students with the skills they need to analyze and solve problems involving bodies in motion through the application of vector mechanics and Newton's Laws. Students will learn kinetics, energy of particles, rigid bodies in 2-D and 3-D motion, and vibrations. Prerequisite: EGS 2311. Special fee. (3 hour lecture; 2 hour lab)

Engineering Technology Civil

ETC2201

Design and Inspection

Engineer Seminar 1 3 credits

Organizations, policies, procedures and practices relating to the engineering and construction of highways, buildings, utilities, and other facilities. Utilization of Standard Operating Procedure for design, layout, inspection, and testing are introduced. (3 hour lecture)

ETC2207

Computing and

Estimating 3 credits

Approximate and exact methods of computing and estimating quantities from plans: arriving at unit prices, lump sum costs, and estimated total costs from quantities; and making preliminary and final estimates. (3 hour lecture)

ETC2210C

Geotechnics and Soils 4 credits

The study of engineering geology and soil mechanics as they relate to engineering and construction. Students will perform laboratory and field work in soil sampling, analysis and U.S. Standards specification for geologic materials. Special fee. (3 hour lecture; 2 hour lab)

ETC2450

Concrete Construction 3 credits

The use of concrete in construction to include foundations, columns, beams, slabs,

hydraulic conduits. Prerequisite: ETG 2502. (3 hour lecture)

ETC2521

Applied Hydraulics

and Drainage Structure 3 credits
The application of basic hydraulics principles to engineering problems in the collection, distribution, and disposal of water
and wastes. Laboratory work involves solving

rection, distribution, and disposal of water and wastes. Laboratory work involves solving realistic problems. Prerequisites: ETG 1513C, PHY 2053. Special fee. (2 hour lecture; 2 hour lab)

Engineering Technology Drafting

ETD1110

Technical Drawing 1 4 credits

Introduces students to the principles of instrument drawing, orthographic projection, visualization, specialized computer processes and introductory computer aided drawing (CAD). Students develop drawing and sketching techniques common to industry. Prerequisite: EGS 1111C. Laboratory fee. (2 hour lecture; 4 hour lab)

ETD1340

Computer Aided

Drawing & Design 3 credits

Industry standard drafting and design practice with the assistance of CADD in a laboratory environment. Working drawing and design routines produced in the CADD system and executed to hard copy via plotter. Prerequisite: MTB 1321 or MAC 1105. Laboratory fee. (2 hour lecture; 2 hour lab)

ETD1542

Structural Drafting 4 credits

Development of structural, fabrication and erecting drawings. Course involves study of structural shapes, their properties, and methods of developing connections, as well as study of common reinforced concrete practices. Prerequisite; ETD 1200. Laboratory fee. (2 hour lecture; 4 hour lab)

ETD1801

Technical Illustration 4 credits

Mechanical product illustration techniques emphasizing ink work and the 35 degree 16' isometric drafting method, paste-up techniques, methods of representing various mechanical devices, exploded and shading techniques. Laboratory fee. (2 hour lecture; 4 hr lab)

ETD2220

Technical Drawing 2 5 credits

Advanced drafting techniques in detailing, piping, welding, select structural members and U.S. drafting standards. Use of technical manual to support detailed drawings produced in a laboratory environment. Introduction to 2D CADD (Computer Aided Drafting and Design) to produce industry standard drawings. Prerequisites: EGS 1111C, ETD 1200. Laboratory fee. (3 hour lecture; 4 hour lab)

DC 2008-10 CATALOG

ETD2350

Computer Graphics 3 credits

The continuation of ETD 1330 in which the student executes CADD solid models, that create realistic images with genuine-looking surfaces, textures, lights, and shading. Animation is also introduced. Prerequisite: ETD 1330. Laboratory fee. (2 hour lecture; 2 hour lab)

ETD2400 Tool and

Machine Design Drafting 5 credits

Students will cover design drafting for construction of tools for mass production on automated lathes, drill presses, screw machines, milling machines, broaches and cutting mechanisms; jig and fixture presentation utilizing 2D and 3D CADD methods. Commercially designed tool elements are introduced to emphasize U.S. Standards (ANSI) for working drawings. Detailing in subassemblies and complex parts with welded and fastened and construction is covered. Prerequisites: EGS 1111C, ETD 1200. Laboratory fee. (3 hour lecture; 4 hour lab)

Engineering Technology Electrical

CET1171

Introduction to Computer

Service and Maintenance 3 credits

This course is designed as an introduction for students new to IT. Students will learn about the history, design, construction, and maintenance of microcomputers, including the proper handling and use of computer components and tools; how to assemble and disassemble computers; how to perform preventive maintenance; how to identify and upgrade components; how to interpret error messages, and how to perform basic trouble-shooting. Laboratory fee. A.S. degree credit only. (3 hour lecture)

CET1172C

A+ Computer

Hardware Service 3 credits

This is an intermediate level course that prepares students for A+ hardware certification. Students will learn how to: install, configure, and upgrade components; diagnose and troubleshoot computer systems; identify, test, and troubleshoot motherboards, processors, memory, and printers; and how to connect network equipment. Laboratory fee.A.S. degree credit only. (3 hour lecture)

CET1173C

Network+ 3 credits

This is an intermediate level course designed for students preparing for the hardware component of the Network+ certification. Students will learn how to install, configure, manage, troubleshoot and upgrade network devices including network interface cards, switches, hubs, wireless access points, routers, and patch panels. They will also learn

about the construction, installation, testing and repair of the physical layer of the network, including wired cables, fiber optic media, wireless transmitters and antennas. Demonstrated knowledge of microcomputer fundamentals and system components is required. Laboratory fee. A.S. degree credit only. (2 hour lecture; 2 hour lab)

CET2114C

Digital Computer

Circuit Analysis 1

Applies electronic principles to digital computer circuits and systems. Prerequisites: EET 1141C, 1142C. Laboratory fee. A.S. degree credit only. (2 hour lecture; 4 hour lab)

4 credits

CET2123C

Microprocessors 4 credits

Applies digital principles to the understanding of microprocessor parameters and characteristics (addressing range and models, instruction set, architecture, input/output, interrupts, and programming). Experimentation on various microprocessors and peripheral circuits. Prerequisites: CET 2114C, MAC 1105. Laboratory fee.A.S.degree credit only. (2 hour lecture; 4 hour lab)

CET2142C

Advanced Digital

Circuits 4 credits

Extends the application of sequential and combinational logic circuits to computer circuits and other digital applications. The student studies a microcomputer and elements, learning to program, operate and interface with it. Prerequisite: CET 2114C; corequisite: EET 1141C. Laboratory fee. A.S. degree credit only. (2 hour lecture; 4 hour lab)

CET2176C

Service +

Service and Maintenance 3 credits

This is an advanced course designed for students preparing for the hardware component of the Server + certification. Students will learn ho to install, configure, and upgrade workstations and servers; configure and test network and peripheral equipment; and diagnose and troubleshoot advanced computer systems. Prerequisite: CET 1172C or A+ certification. Laboratory fee. (3 hour lecture)

CET2205C

Pulse and

Digital Circuits 4 credits

The theory and verification of the nonlinearities of tubes and transistors and the use of these nonlinearities for nonsinusoidal wave generation, shaping, and switching. Prerequisites: EET 1141C, 2101C. Laboratory fee. A.S. degree credit only. (2 hour lecture; 4 hour lab)

CET2930

A+ Certification

Examination Review 3 credits

A comprehensive course to prepare advanced students to pass the A+ certification examination. Coverage includes microcomputer hardware, the DOS and Windows operating systems, industry standards and practices,

and professional competency and conduct. Corequisite: CET 2176C. (3 hour lecture)

EET1015C

Direct Current

Circuits 4 credits

Basic principles of electricity and the applications of fundamental laws to direct current networks. A study of electrical components, magnetism, inductance, capacitance and elementary network analysis. Utilization of modern laboratory equipment for experimental verification and application of basic principles. Pre-/corequisite: MAC 1105. Laboratory fee. (2 hour lecture; 4 hour lab)

EET1025C

Alternating Current

Circuits 4 credits

Fundamental principles of alternating current: sinusoidal and non-sinusoidal. A study of impedance, phase shift, coupling networks, transformers, and series and parallel resonance using standard vector notation. Utilization of modern laboratory equipment for experimental verification and application of theory. Prerequisite: EET 1015C; corequisite: MTB 1322. Laboratory fee. (2 hour lecture; 4 hour lab)

EET1037C

Electronic Computer

Simulations 3 credits

An investigation of network theorems with practical illustrations. Thevenin's, Norton's, Kirchoff's and the superposition methods of analysis are applied to the solution of resistive and reactive networks. Resonant circuits and transient voltages and currents are analyzed. Prerequisite: EET 1141C; corequisite MTB 1322. (3 hour lecture)

EET1082

Introduction to Electronics 3 credits

Learn by building practical electronic circuits. Survey course suitable for both majors and non-majors. Instructor and tutors available to assist in project completion. Topics include: schematics, pictorials, amplifiers, oscillators, burglar alarms, radios, digital circuits. Students will develop individual career plans and learn about employment opportunities within the field. (3 hour lecture)

EET1141C

Electronics 1 4 credits

The fundamental theory of transistors and other solid-state devices and its verification. Amplifiers, oscillators, and other applications using a sinusoidal wave are analyzed. Pre/corequisite: EET 1025C. Laboratory fee. (2 hour lecture; 4 hour lab)

EET1142C

Transistor Circuits 4 credits

Transistors and other solid-state devices. Amplifiers, oscillators, pulse and switching circuits and other applications using both sinusoidal and non-sinusoidal waves are analyzed. Prerequisites: EET 1037C, 1141C, 2101C. Laboratory fee. (2 hour lecture; 4 hour lab)



EET1580 Power Plant

Science 2 credits

This course is designed to familiarize the student with the study of fundamental nuclear plant sciences. Coursework covers the broad spectrum of fundamental nuclear power plant sciences which encompasses basic electrical science, properties of reactor plant materials, basic atomic and nuclear physics, heat transfer and fluid flow, reactor safety design, and plant chemistry. (2 hour lecture)

EET1949

Co-op Work

Experience 1: EET 1-3 variable credits
This course is designed to provide training in a student's field of study through
work experience. Students are graded on
the basis of documentation of learning
acquired as reported by student and employer. Prerequisite: Cooperative Education Office
approval. Students will be assigned specific
course prefixes related to their academic
major prior to registration. All students must
contact the Cooperative Education Office to
obtain registration approval. (3 hour lecture)

EET2101C

Electronics 2 4 credits

Construction, characteristics, and applications of the various electron tube and semiconductor devices including newer solidstate devices, and some of the important industrial and commercial systems in which they are employed. Prerequisite: EET 1141C. Laboratory fee. (2 hour lecture; 4 hour lab)

EET2205C

Fluid/Pneumatic

Instrumentation 3 credits

This course is designed for students specializing in industrial equipment maintenance. Students learn and apply the basic principles and operation of hydraulic and pneumatic instrumentation and testing equipment to repair equipment. Laboratory experiments are performed with extensive hands-on application. Prerequisite: MAC 1105. A.S. degree credit only. Special fee. (2 hour lecture; 2 hour lab)

EET2305

FCC License Prep 3 credits

Prepares technicians for the first or second class radio-telephone operators' license examination as administered by the Federal Communications Commission. Students who possess a valid FCC first or second class license may arrange for Credit-by-Departmental Examination. Prerequisites: EET 1015C, 1025C, 1037C, 1141C, 1142C; corequisite: EET 2101C. (3 hour lecture)

EET2305C

Communications & Federal Communications

Commission 4 credits

An analysis of the principles of radio wave transmission and reception. AM and FM transmitters, receivers, and single side-band, television and digital data transmission lines, wave propagation antennas, and microwaves are investigated. FCC licenses, laws, operating practices and broadcast station rules are reviewed. Corequisite: EET 2101C. (2 hour lecture; 4 hour lab)

EET2351

Fundamentals of Digital and Data

Communications 4 credits

This course is designed to give the electronics student a theoretical and practical background in the basic concepts and applications of Digital and Data Communications. Examples of topics covered are: A/D and D/A conversions; data communications codes and standards; modulation, transmission impairment, the telephone system, MODEMS, multiplexers, electrical interface standards including RS-232-C. There will be laboratory applications on most topics. Prerequisites: CET 2114C, EET 1025C. Laboratory fee. (2 hour lecture; 4 hour lab)

EET2515C

Motors and Generators

3 credits

This course is designed for students specializing in industrial equipment maintenance. Students learn how to analyze, troubleshoot, and repair rotating electric machinery with emphasis on industrial applications. Students learn terminology specific to motors, generators, and transformers; electromechanical device theory; circuits connecting electromechanical devices to voltage sources and loads; and how to apply mathematical analysis to determine quantitative circuit functioning in terms of voltage, current, and power. Prerequisite: EET 1025C. Corequisite: EET 1141C. A.S. degree credit only. Special fee. (2 hour lecture; 2 hour lab)

EET2527C

Motor Starters,

Controllers, and Breakers 3 credits

This course is designed for students specializing in industrial equipment maintenance covering AC and DC power distribution in the plant. Students learn operating principles, troubleshooting, repair, and maintenance of switch gear, motor control centers, breaker panel power, control, and instrument cable, raceways, protective devices and grounding as related to the generating station. Hands-on, laboratory exercises reinforce each major concept studied. Prerequisites: EET 1141C, EET 2515C.A.S. degree credit only. Special fee. (2 hour lecture; 2 hour lab)

EET2547C

Transformers and

Power Distribution 3 credits

This course is designed for students specializing in industrial equipment maintenance. Students acquire an understanding of the components and devices used to distribute power, and how to protect major elements involved in power distribution. Students learn about the uses and maintenance of fuses, circuit breakers, reclosures, and relay coordination; how to protect against lightning and

other abnormal conditions; and the protection of transformers, motors, and generators. Prerequisite: EET 2515C; corequisite: EET 2527C. A.S. degree credit only. Special fee. (2 hour lecture; 2 hour lab).

EST1572

Power Plant

Fundamentals 3 credits

This course is designed to provide the student with the theory of operation of power plants and general administrative procedures for completing routine tasks. (3 hour lecture)

EST2122C

Electrical Machinery/

Industrial Control Systems 4 credits Analysis of different types of systems and associated electronic circuits encountered in the field of electric machinery and industrial controls. The concepts of open and closed loop systems, transducers, transformers, transmission and distribution systems will be presented. Analysis of systems and devices will include the calculation to determine parameters to accurately predict operation. Prerequisite: EET 1025C. Laboratory fee. (2 hour lecture; 4 hour lab)

EST2224C

Fiber Optic

Communications 2 credits

Introduce fiber optic technology and theory and contrast fiber optic with other transmission media. Installation, troubleshooting, and termination of cable. Operation of fiber and copper tools. Selection of appropriate cable for different environmental and telemetric conditions. Use of single and multi-mode cable. Contrast fiber cable with copper cable. Contrast the channel capacity of a fiber cable with that of copper cable. Determine when each is appropriate. Transmission theory and wave guide, light refraction inside a fiber optic cable, multi-path limits to cable length within a fiber cable, frequency limits, and harmonic modes. Special fee. (1 hour lecture; 2 hour lab)

EST2436C

Biomedical

Instrumentation 1 3 credits

Students will acquire proficiency in biomedical equipment maintenance through classroom and laboratory environment and will gain familiarity with and learn to evaluate, calibrate, test, and perform basic troubleshooting on various types of biomedical equipment. Prerequisites: EET1025C, CHM1033, HIM 2472. Laboratory fee. (2 hour lecture; 2 hour lab)

EST2438C

Biomedical

Instrumentation 2 3 credits

This course is intended to inform students about the theory and operation of instrumentation employed in the medical imaging field such as x-ray machines, CT scanners, Ultrasound, Nuclear Medicine and MRI. Prerequisite: EST 2436C. Laboratory fee. (2 hour lecture; 2 hour lab)

MDC 2008-10 CATALOG

EST2520C

Process Measurement

Fundamentals 3 credits

This course is designed for students who will be supporting industrial equipment processes. Students learn how to perform the typical measurements made in industrial measurement and control loops. Topics include the basic physics involved in the pressure, temperature, flow, level, and analytical measurement theory. Prerequisite: EET 1141C. A.S degree credit only. Special fee. (2 hour lecture; 2 hour lab)

EST2530C

Process Control Technology 3 credits
This course is designed for students studying
systems and associated electronic circuits
encountered in the field of electric machinery and industrial controls. Students learn
to analyze systems and devices and perform
calculations to determine parameters to accurately predict operation. Students examine
the concepts and principles of open and
closed loop systems, transducers, transformers, transmission, and distribution systems.
Prerequisite: EET 1025C. A.S. degree credit
only. Special fee. (2 hour lecture; 2 hour lab)

EST2542C Programmable Logic

Controllers 1 3 credits

This first course in programmable logic controllers (PLC), is designed for students preparing for careers in electronics, manufacturing, electrical or industrial technology. Students learn the basic operational concepts common to PLCs, focusing on PLC principles, programming, numbering systems, data manipulation, math and sequencer instructions. Pre/corequisite: EET 1141C. A.S. degree credit only. Special fee. (2 hour lecture; 2 hour lab)

EST2544C

Programmable Logic

Controllers 2 3 credits

This course is a continuation of EST 2542C for students who are familiar with basic PLC operations and concepts. Students learn the skills required to troubleshoot and maintain logic controllers in a simulated industrial environment. Topics covered include program control instructions, date manipulation instruction, math instructions, acquisition, computer controlled machines and processes. Prerequisite: EST 2542C.A.S. degree credit only. Special fee. (2 hour lecture; 2 hour lab)

ETE2250C

Instruments 1 3 credits

Pressure and temperature sensing and measurement; measuring and control elements; the use of standards and testing devices; the use and care of meters and test equipment; liquid level measurements and combination measurements of pressure, temperature, level and interaction. Prerequisites: EET 1141C, CET 2114C. Laboratory fee. (1 hour lecture; 4 hour lab)

ETI1701

Industrial Safety 3 credits

This course provides the student with the knowledge and skills to recognize hazardous situations in industrial plants and the precautions to be observed and practiced to perform work activities safely. Among the topics covered are industrial safety hazards, electrical safety, working with chemicals, gases, and solvents, protective equipment, and safe working conditions (3 hour lecture)

ETI1802

Industrial Plant

Tools and Equipment 2 credits

This course provides an introduction to the major systems and components that make up a modern power plant. (2 hour lecture)

ETI1805C

Introduction to

lifting and Rigging 3 credits

This course provides knowledge and skills required by students preparing for careers in industrial maintenance of heavy equipment. Students learn how to determine rigging requirements for lifts, select equipment, calculate loads and safely operate different types of lift equipment. Prerequisites ETI 1701, ETI 1870. A.S. degree credit only. Special fee. (2 hour lecture; 2 hour lab)

ETI1870

Power Plant

Systems 2 credits

This course provides an introduction to the major systems and components that make up a modern power plant. (2 hour lecture)

ETI2425C

Metallurgical Properties and Dynamics 3 credits

This course provides students who are preparing for occupations in industrial maintenance with a foundation in the principles of the metallurgy of steel. Students learn about the thermal, physical and chemical properties of steel. Prerequisite: PHY 1025. A.S. degree credit only. Special fee. (2 hour lecture; 2 hour

Engineering Technology -Environmental

EVS2005

Water and Waste Systems 3 credits

The design, construction, operation, control management of water collection, purification and distribution systems: waste collection, disposal systems, and treatment plants. Prerequisites: ETC 2521, EVS 2006.A.S. degree credit only. (1 hour lecture; 4 hour lab)

EVS2006

Treatment Operations

Processes 3 credits

The knowledge and skills to understand and perform the routine physical, chemical and biological operation for control of processes in water and waste water treatment and other pollution control. Prerequisites: ETC 2521, ETG 1513C. A.S. degree credit only. (2 hour lecture; 2 hour lab)

Engineering Technology -Industrial

ETI1411

Materials of Industry

3 credits

Processing of raw industrial materials including ferrous and non-ferrous metals, their mining through manufacturing, and the properties, specifications, and tolerances to which they are made. Additional topics in the exotic metals and plastic are covered. (3 hour lecture)

Engineering Technology -Mechanical

ETM1700

Air Conditioning

Fundamentals 3 credits

The basic science of air conditioning technology, the fundamentals of air conditioning for environmental control, the function and operation of the equipment and the air conditioning design process. (3 hour lecture)

ETM1710C

Air Conditioning

Load Analysis 3 credits

Detailed study and practical application of cooling and heating load calculations and analysis for residential and commercial buildings. Energy conservation techniques in building design and operation are also covered. Prerequisite: ETM 1700. Laboratory fee. (2 hour lecture; 2 hour lab)

ETM1720C

Air Conditioning

Equipment 3 credits

Analysis of the refrigerant cycle and the machinery and equipment utilized for air conditioning. Function, selection and operation of components of the system are covered. Laboratory fee. Prerequisite: ETM 1700. (2 hour lecture; 2 hour lab)

ETM2730C

Air Distribution

Intensive study and practical application of air distribution technology. Duct design, fans, low velocity, high velocity, and variable volume systems are included. Laboratory work includes duct design projects. Prerequisite: ETM 1700. Laboratory fee. (2 hour lecture; 2 hour lab)

3 credits

ETM2740C

Air Conditioning

Controls & Motors 3 credits

Air conditioning and refrigeration control devices and theory, operation and application are covered. Electric motor technology with practical application to air conditioning is also included. Prerequisite: ETM 1720C. Laboratory fee. (2 hour lecture; 2 hour lab)



ETM2750C

Air Conditioning Systems Design

3 credits

Design of residential and commercial environmental control systems utilizing unitary equipment. Prerequisite: ETM 1710C. Laboratory fee. (2 hour lecture; 2 hour lab)

ETM2760C Heating &

Refrigeration 3 credits

Study of environmental control heating system design, function, application and industrial refrigeration systems design for food preservation and processing are also covered. Laboratory includes design projects in these areas. Prerequisite: ETM 1720C. Laboratory fee. (2 hour lecture; 2 hour lab)

ETM2930 Air Conditioning

Seminar 3 credits

A seminar for advanced students and those with experience in air conditioning engineering covering new concepts, equipment and advances in the technology of air conditioning. Prerequisite: Permission of the department chairperson. (3 hour lecture)

Engineering Technology-General

ETG1513C Hydraulics and

Pneumatics 3 credits

Fluid mechanics; the flow of water, air and oil; calibration of metering devices; pipe friction; elementary hydraulic tests; friction and energy loss, and devices for making fluid measurements. Laboratory experiments are performed. Prerequisite: MAC 1105. (2 hour lecture; 2 hour lab)

ETG2502

Static's 3 credits

The application of dead and live loads to rigid bodies at rest, including the force and moment of laws of equilibrium, determination of the direction and intensity of reactions, moments and stress in the design of engineering and architectural structures. Prerequisite: MAC 1105. (3 hour lecture)

ETI1040

Introduction to

Bioscience Manufacturing 3 credits

This course introduces students to the field of bioscience manufacturing. Topics will include basic principles of the industry, large-scale process development and the future of the bioscience industry. Current good manufacturing practices, and the nature and delivery system of products will also be discussed. (3 hour lecture)

ETI1181

Introduction to

Quality Assurance 3 credits

This course describes the role and aspects of quality systems and regulatory affairs in research laboratories, regulated companies, and firms that comply with voluntary standards. Topics include stages in development and submission of drugs and medical devices, patents legislation, and quality systems such as auditing, standard procedures, good manufacturing and laboratory practices. (3 hour lecture)

ETI2416C

Power Plant

Machines & Components 1

4 credits

This course is designed for students who are preparing for careers in industrial and/ or power plant mechanical maintenance. Students learn the principles, concepts, and applications of various mechanical systems encountered in industrial applications, how to identify basic systems and components encountered in power plants, how to trouble-shoot equipment problems, and basic procedures involved in maintaining and replacing component parts. Prerequisite: ETI 1870 Special fee. A.S. degree credit only. (2 hour lecture; 4 hour lab)

ETM1315C

Applied Pneumatics

and Hydraulics 3 credits

This course prepares students to perform mechanical maintenance on industrial equipment and devices. Students learn the theory and application of fluid mechanics, how to calibrate metering devices, and conduct elementary hydraulic tests. Pre/corequisite: MAC 1105. Laboratory fee. A.S. degree credit only. (2 hour lecture; 2 hour lab)

ETM1990

Applied Pneumatics

and Hydraulics 3 credits

This course prepares students to perform mechanical maintenance on industrial equipment and devices. Students will learn the theory and application of fluid mechanics, how to calibrate metering devices, and conduct elementary hydraulic tests. Precorequisite: MAC 1105. Laboratory Fee. A.S. degree credit only. (2 hour lecture; 2 hour lab)

English Language & Literature

AML2010

American Literature

3 credits

American Literature from Colonial times to the Civil War. Prerequisites: ENC 1101, 1102. (3 hour lecture)

AML2020

American Literature 3 credits

American literature from the Civil War to the present. Prerequisites: ENC 1101, 1102 (3 hour lecture)

AML2601

African American

Literature 1 3 credits

A study of African-American literature with emphasis on poetry, fiction, biography, and

drama from 1746 to the Harlem Renaissance. (1920's). Prerequisite: ENC 1101. (3 hour lecture)

AML2602

African-American

Literature 2 3 credits

This course reviews the Harlem Renaissance period and focuses on contemporary Black American literature to the present. Emphasis will be on the enormous body of literature produced in the 1960s, including prose, poetry, drama, and biography as well as films and some T.V. specials. (3 hour lecture)

CRW2001

Creative Writing 1 3 credits
Imaginative writing in selected genres.

(3 hour lecture)

CRW2002

Creative Writing 2 3 credits

Imaginative writing in selected genres. (3 hour lecture)

CRW2700

Reading &

Writing Satire 3 credits

Focuses on learning techniques of effective satire by reading well-known satirical works, ranging from ancient to modern times, and applying these techniques in students writing, which may be in the form of essay, poem, or short play. (3 hour lecture)

ENC1101

English

Composition 1 3 credits

This is the first required general core course in college-level writing. Students will compose essays and other works using various methods of development. This course fulfills 8,000 words of the Gordon Rule requirement. Note: This course must be completed with a grade of C or better. Prerequisites: Placement by Scholastic Assessment Test (SAT) verbal subtest score; American College Testing (ACT) English subtest score; Computerized Placement Test (CPT) English subtest score; or ENC 0021 with a grade of S. Special fee. (3 hour lecture)

ENC1102

English

Composition 2 3 credits

This is a required general education course in college level-writing. Observing the conventions of standard edited American English, students will compose informative and persuasive essays, write responses to a variety of literary genres and/or non-fiction, and produce a documented paper based on research. This course fulfills 8,000 words of the Gordon Rule requirement. Note: This course must be completed with a grade of C or better. Prerequisite: ENC 1101 or equivalent with a grade of C or better. Special fee. (3 hour lecture)

ENC1112

Essential Elements

of English Grammar 1-3 variable credits

This course is designed for students whose writing and/or CLAST English language skills test scores demonstrate a need for continued instructional support. It covers many of the same topics assessed by the CLAST objective English language skills component. Course content is individualized based on specific student needs. This course is repeatable. Prerequisites: Placement by Scholastic Assessment Test (SAT) verbal subtest score: American College Testing (ACT) English subtest score; Computerized Placement test (CPT) English subtest score or ENC 0021 with a grade of S. (1-3 hour lecture)

ENC1113 Writing Skills

Review 1-3 variable credits

This course is designed for students whose writing and/or CLAST essay test scores demonstrate a need for continued instructional support. It also reinforces the principles of composition. Course content is individualized based on specific student needs. This course is repeatable. Prerequisites: Placement by Scholastic Assessment Test (SAT) verbal subtest score; American College Testing (ACT) English subtest score; Computerized Placement test (CPT) English subtest score or ENC 0021 with a grade of S. (1-3 hour lecture)

ENC1210

Technical Report

Writing 3 credits
Intended primarily for technical programs,
and emphasizes research techniques, graphic
presentation and technical report writing.
(3 hour lecture)

ENC2135

Advanced Composition

and Communication 3 credits

This writing-based course addresses techniques of critical thinking, persuasion, and argumentation. Students will refine their composition skills and develop their oral communication skills by examing and discussing a range of issues. Prerequisites: ENC1101, 1102 or equivalent with a grade of C or better. (3 hour lecture)

ENC2200

Advanced Exposition for Business

for Business 3 credits
Study and practice of effective writing
techniques for business, including collaborative skills and effective use of graphics. Prerequisites: ENC 1101 and ENC 1102.
(3 hour lecture)

ENC2300

Advanced Composition

and Communication 3 credits

This writing-based course addresses techniques of critical thinking, persuasion, and argumentation. Students will refine their composition skills and develop their oral communication skills by examining and discussing a

range of issues. Prerequisites: ENC1101, 1102 or equivalent with a grade of C or better. (3 hour lecture)

ENG1949

Co-op Work

Experience 1: ENG 3 credits

This course is designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

ENG2949

Co-op Work

Experience 2: ENG 3 credits

This course is designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisites: Cooperative Education Office approval and completion of 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

ENL2012

English Literature 3 credits

A survey of major British writers from Chaucer through the 18th century. Required of English majors. Prerequisites: ENC 1101, 1102 or equivalent. (3 hour lecture)

ENL2022

English Literature 3 credits

A survey of major British writers from the 18th century through the contemporary period. Required of English majors. Prerequisites: ENC 1101, 1102. (3 hour lecture)

LIT1000

Introduction to

Literature 3 3 credits A variety of approaches to the study of litera-

ture. Prerequisite: ENC 1101. (3 hour lecture)

LIT2020

The Short Story 3 credits

The development of the short story as a literary form. (3 hour lecture)

LIT2090

Contemporary Literature 3 credits

A survey of contemporary prose and poetry. Prerequisites: ENC 1101, 1102 or equivalent. (3 hour lecture)

LIT2110

A Survey

of World Literature 3 credits

The masterpieces of world literature. Prerequisites: ENC 1101, 1102 or equivalent. (3 hour lecture)

LIT2120

A Survey

of World Literature 3 credits

LIT 2120 explore masterpieces of world literature from the mid-renaissance to the present. Works studied exemplify the universality of human experience. This course fulfills 2,000 words of the Gordon Rule requirement. Prerequisites: ENC1101, 1102 or equivalent. (3 hour lecture)

LIT2131

Mythology in

Literature:

The Arthurian Tradition 3 credits

The course will trace the progress of the legends surrounding King Arthur from medieval to contemporary poetry and prose, with primary focus on literary texts and supplementary investigation of Arthurian themes in art, film, and music. (3 hour lecture)

LIT2140

Contemporary World

Novel 3 credits

An intensive study of the novel in the contemporary world including the reciprocal influences between the novel and the film. (3 hour lecture)

LIT2323

Introduction to

Mythology in Literature 3 credits Using the work of Carl G. Jung (archetypal symbolism) as a conceptual foundation, the course will examine universal themes and

symbolism) as a conceptual foundation, the course will examine universal themes and motifs in myths from various cultures and in some contemporary literature and film. (3 hour lecture)

LIT2330

Survey of

Children's Literature 3 credits

This course will familiarize interested students with major works in children's literature and with the principal genres and subgenres including, but not limited to, picture books (Mother Goose, easy-to-read books, picture storybooks); traditional fantasy (folktales, myths); modern fantasy (curious characters, science fiction); realistic fiction; poetry; and nonfiction. It will also analyze the role that literature has played and/or should play in the teaching of reading in primary school. (3 hour lecture)

LIT2480

Issues in

Literature & Culture 3 credits

LIT2480 explores literature as a form of cultural expression. Students are engaged in the critical process of analysis by connecting literary texts to cultural issues. Through oral and written assignments, and practical investigation, students will study literature as a socio-cultural response by writers to the world in which they live. This course fulfills the oral communication requirement and 4,000 words of the Gordon Rule requirement. (3 hour lecture)



English Language and Literature - College Preparatory

ENC0002

College Preparatory

Writing 1 4 credits
ENC 0002 is a college preparatory writing
course which addresses effective sentence
development using standard edited American
English. Laboratory required. Prerequisites:
Placement by Scholastic Assessment Test
(SAT) verbal subtest score; American College
Testing (ACT) English subtest score; or
Computerized Placement Test (CPT) English
Subtest score. (4 hour lecture)

ENC0020

College Preparatory Writing 2

ENC 0020 is a college preparatory writing course which addresses effective sentence and paragraph development using standard edited American English. Laboratory required. Prerequisites: Placement by Scholastic Assessment Test (SAT) verbal subtest score; American College Testing (ACT) English subtest score; Computerized Placement Test (CPT) English subtest score; or successful completion of ENC0002. Special fee. (4 hour lecture)

ENC0021 College Preparatory

Writing 3

ENC 0021 is a college preparatory writing course which addresses effective sentence, paragraph and essay development using standard edited American English. Prerequisites: placement by Scholastic Assessment Test (SAT) verbal subtest score; American College Testing (ACT) English subtest score; Computerized Placement Test (CPT) English subtest score; or successful completion of ENC 0020. (4 hour lecture)

Environmental Studies

EVR1001 Introduction to

Environmental Studies

This course will introduce the fundamentals of major topics in the environmental studies field. The scientific, social, political and economic aspects of environmental law. Through oral and written assignments and handson investigations, students will learn about the different processes affecting ecosystems, especially those of South Florida. Special fee. (3 hour lecture)

EVR1010

Environmental Compliance 3 credits
This course will teach a student how environment compliance is achieved in South
Florida via Federal, State and local programs.
Topics covered will include environmental regulations, policies, procedures and enforce-

ment. Emphasis will be placed upon a holistic approach to the environment through Field Office, Lab and Legal procedures. In addition, students will understand how the course material and their active participation in addressing environmental issues will assist them in obtaining employment in the environmental field. (3 hour lecture)

EVR1015

Hazardous Materials

and the Environment 3 credits

Deals with the basic principles for relationship between man and his environment. Emphasis is placed on an investigation into the physical, biological, economic, social and political factors producing ecological changes. In addition, effects of hazardous materials upon the environment are studied. (3 hour lecture)

EVR1030 Soil and

4 credits

4 credits

Ground Water Monitoring 3 credits

The student will be exposed to the theory and practical concepts of environmental sampling and the basic principles of properly collecting soil and groundwater samples in a safe and efficient manner. Students will gain valuable hands-on experience in the following areas: meter calibration and maintenance, equipment decontamination and sterilization, field survey techniques and sample collection in order to ensure sample integrity. (3 hour lecture)

EVR1190

Environmental Sampling

rocedures 3 credits

Theory and Practice of Environmental Sampling teaches the student the basic principles of properly collecting quality aqueous and solid environmental samples in a safe and efficient manner. Students will gain hands-on experience in the following areas: meter calibration and maintenance, equipment decontamination, field survey techniques, and sample collection. (3 hour lecture)

EVR1215

Open Channel

Flow Measurement 3 credits

Increasing stricter legislation and continuing public interest in conservation and environmental matters have emphasized the importance of flow measurements. Uniform and reliable measurements data are needed to determine the results of conservation and quality control measures, and to enforce water conservation and regulatory requirements. This course provides the student instructions in the field of open channel flow. This course will be of practical value to individuals dealing with the realities of difficult open channel flow problems. (3 hour lecture)

EVR1230

Air Pollution 3 credits

Study of air pollution as it directly relates to the combustion of fuel for industrial production, transportation and for the production of electricity for domestic use. Discrete air pollution problems are identified and proper quality assurance/quality control (QA/QC) and regulations associated with air monitoring and sampling are discussed. (3 hour lecture)

EVR1262

Introduction to Ecology & Urban Industrial Pollutants

Urban Industrial Pollutants 3 credits
This course offers an introduction to the
forces of nature, plants and animals that form
ecosystems. The focus is on urban growth and
industrial discharges and the effects of devel-

industrial discharges and the effects of development and pollution on such habitats. The scope of this study surveys the relevance of chemistry, biology and the inevitable connection between different fields of remediative efforts. (3 hour lecture)

EVR1633

Hazardous Materials

Emergency Response 1 4 credits

Teaches the skills needed to develop response tactics in the event of an incident in a company or community. Hazard analysis, preparing contingency plans, employee training, and testing contingency plans are part of this course. Students also learn what resources are available to assist in analyzing specific situations and in determining the correct action to be taken. This course meets the SARA requirement for response training. (2 hour lecture; 4 hour lab)

EVR1635

Hazardous Communication

Standard 3 credits

Communications required by law will be the major emphasis in this course, including worker's right to know and community right to know. Also the communication that must be available to emergency responders is addressed. Specific topics covered include material safety data sheets (MSDS), proper labeling of containers and placarding according to NFPA requirements, and the preparation of a written program for an industry to follow to provide a safe working environment for employees and safe living conditions for the community. (3 hour lecture)

EVR1639

Hazardous Materials

Transportation Storage & Disposal

& Disposal 3 credits
Teaches the requirements related to storing, transporting, and disposing of hazardous materials. Documentation that must accompany these operations is stressed along with technical aspects of TSD. (3 hour lecture)

EVR1640

Hazardous Materials

Regulations 1 3 credits

A historical overview of occupational and environmental health issues. An introduction to past and present legislation with an emphasis on the interpretation of the Department of Labor's Occupational Safety and Health Act. (3 hour lecture)

00 2008-10 CATALOG

EVR1655 Hazardous Materials Recovery Incineration

& Disposal 3 credits

The course is designed to explain the methods of recovery, incineration and/or disposal of hazardous waste. Topics include contracting qualified disposal organizations, obtaining permits and ensuring regulatory compliance of hazardous waste. (3 hour lecture)

EVR1802

Industrial Processes 4 credits

Emphasis is placed on where hazardous materials are used and generated in industrial processes. Understanding the constraints of product lines are discussed. Special attention is paid to potential acute and chronic hazard exposures from various industrial processes. Prerequisites: CHM 2032, 2032L. Special fee. (4 hour lecture)

EVR1809

Industrial Hazardous Waste 3 credits

This course will have a major emphasis in the field of industrial waste, industries that generate industrial waste, waste products generated by different industries, regulation of industrial and hazardous wastes, identification of chemicals used by different industries and inspections of industrial facilities. The student will gain valuable experience in properly evaluating safe field survey techniques and sampling techniques. (3 hour lecture)

EVR1895

Environmental Pollutants 3 credits

The Environmental Pollutants course will teach students to recognize pollutants associated with and generated by an industrial process. The emphasis of this course lies in the analytical laboratory procedures used to detect these pollutants. In addition to common industrial process description details, the course will concentrate on sample collection, sample containers and volumes required preservatives and sampling handling. (3 hour lecture)

EVR1930

Seminar

Environmental

1-3 variable credits

This course reviews state-of-the-art developments and practices under study. The student will receive an overview of air, rain, runoff, solids and others as they relate to local, state environmental considerations. (1-3 hour lecture)

EVR2005

Hazmat Pollution Bridge 2 credits

This course provides the vocational student with the skills and knowledge to receive Associate in Science credit for EVR 1809, Industrial and Hazardous Waste; EVR 1895, Environmental Pollutants, EVR 1230, Air Pollution; and EVR 1015, Hazardous Materials and the Environment. The students must have satisfactorily completed VCC courses; Introduction to Industrial Hazardous Waste, Identification of Environmental Pollutants, Introduction to Environmental Air Pollution. (2 hour lecture)

EVR2613

Hazardous Materials

Emergency Response 2 4 credits

This is a follow-up course to EVR 1633. In this course, students will learn how to size up a situation and how to determine needed resources. They will learn to identify NFPA warning signs and what the signs mean. Time will be spent responding to simulated emergencies involving hazardous materials, in minimizing the danger, and in completing clean-up operations. Prerequisite: EVR 1633. Special fee. (3 hour lecture; 2 hour lab)

EVR2625

Infectious and

Nuclear Materials 3 credits

Students in this course learn the proper handling and disposal techniques for both infectious (biological) and nuclear (radioactive) materials. Personal hygiene and monitoring are emphasized in addition to the proper selection and use of personal protective equipment. Packaging and shipping requirements will be studied. (2 hour lecture; 2 hour lab)

EVR2630

Hazardous Materials

Risk Analysis 3 credits

Hazardous materials Risk Analysis teaches students a systematic method to be used when analyzing risks associated with hazardous materials. This type of analyses that might be done as part of a planning operation where time is not a critical factor; it might be done at the scene of an incident involving the leak of a hazardous material. Students will be taught the essential resources needed for each situation and how to use them. (3 hour lecture)

EVR2631

Hazmat Communication

Bridge 1 credit

This course provides the vocational student with the skills and knowledge to receive credit in EVR 1010, Environmental Compliance; EVR 1635, Hazard Communication Standard; EVR 1640, Hazardous Materials Regulations 1; EVR 2630, Hazardous Materials Risk Analysis, and VCC courses. A survey of Hazardous Material Regulations, Elementary Risk Assessment, Hazard Communications, Environmental Compliance and the Regulatory Risk Bridge course, EVR 2860. (1 hour lecture)

EVR2636

Emergency Response Bridge 1 credit

This course provides the necessary information and skills to the vocational student who has completed VCC courses: Basic Emergency Response and Intermediate Emergency Response to qualify for Associates of Science credit for EVR 1633. Hazardous Materials Emergency Response 1, and EVR 2613, Hazardous materials Response 2. (1 hour lecture)

EVR2641

Hazardous Materials

Regulations 2 3 credits

An in-depth study of the Environmental Protection Agency including RCRA, CERCLA,

TSCA, FIFRA and clean air and water issues. Emphasis will be placed on developing methods and strategies to ensure regulatory compliance. Determine applicability of federal, state and local regulations dealing with hazardous materials. Agencies examined include the Department of Transportation (DOT), the National Regulatory Commission (NRC), and Department of Natural Resources (DNR). Prerequisite: EVR 1640. Special fee. (3 hour lecture)

EVR2647

Environmental Site

Assessment 3 credits

This course will introduce the fundamentals of environmental site assessment, ecological monitoring and ecological risk assessment. The role of management of environmental performance will be studied. Also, the positive and negative impacts organizations have on environmental systems (e.g. resource depletion) will be studied. Finally, the students will attain improved scientific understanding of the ecosystem integrity and dynamics. Corequisites: EVR1001, 1262, Special fee. (3 hour lecture)

EVR2680

Hazardous Materials

Packing and Shipping 3 credits

Students learn to package chemical, infectious, and nuclear materials for transportation. The legal documentation that accompanies shipments will be taught as will the required safeguards for actually shipping hazardous materials. (3 hour lecture)

EVR2695

Advanced Hazardous

Materials Analysis 4 credits

Advanced techniques in instrumental analysis. Atomic absorption, spectrometry, gas chromatography, mass spectrometry, ion chromatography, UV-vis spectrophotometry, titrimetry, analytical technique, computer interfacing, and future trends. Prerequisite: EVR 2890. Special fee. (3 hour lecture; 2 hour lab)

EVR2800

Hazmat Health Bridge 1 credit

This course provides the skills and knowledge required to allow the vocational student to achieve Associate of Science credit for EVR 2625, infectious and Nuclear Materials; ad, EVR 2805 Hazardous Materials Health Effects. The student must have completed VCC courses; Hazardous Materials Health Effects, and infectious and Nuclear Materials. (1 hour lecture)

EVR2805

Hazardous Materials

Health Affects 3 credits

A review of the research done in determining the systematic health effects of exposures to chemicals. Determination of risk factors, routes of entry, control measures and acute and chronic effects are discussed. Emphasis is placed on toxicological terminology and how the products affect body systems. (2 hour lecture; 2 hour lab)



EVR2808

Hazardous Materials Injuries 3 credits
This program provides the necessary information to medically trained personnel to
be able to provide the necessary medical
management to chemically exposed persons
under field conditions. Students learn the
proper patient decontamination processes,
how to protect themselves during the care
of patients and how to medically manage the
exposures. (3 hour lecture)

EVR2820 Hazardous Materials Corporate Program

Development 3 credits

This course has two major areas of study-how to develop a plan for a company to respond to an incident involving hazardous materials and how to set up a training program to prepare company employees to respond to an incident. Students in this program learn the importance of establishing learning/teaching objectives, competencies for different jobs, and organizing a series of classes to achieve a teaching tool. Students will work with simulated companies and establish both plans for responding to emergencies and training programs to meet specific needs. (3 hour lecture)

EVR2840

Hazardous Materials

Emergency Response 3 3 credits
This is a follow-up course to EVR 2613 students will learn how to size up a situation and
how to determine needed resources. They
will learn the process of Incident Command.
Through simulated emergencies, students
will assess the incident, response to the emer-

gency, supervise clean-up and provide public relations information. Management skills will be developed. Prerequisite: EVR 2641. (2 hour lecture; 2 hour lab)

EVR2845

Elements of Emergency

Response Management Bridge 1 credit
This course provides the skills and knowledge to the vocational student to receive
Associate of Science credit for EVR 2840,
Hazardous Materials Emergency Response
3. The student must have satisfactorily completed VCC course; Advanced Hazardous
Materials. (1 hour lecture)

EVR2860

Regulatory Risk Bridge 2 credits

This course provides the knowledge and skills for the student to receive Associate of Science credit In EVR 1010, Environmental compliance; EVR 1635, Hazard Communication Standard; EVR 1640, Hazardous Materials Regulations 1; EVR 2630, Hazardous Materials Risk Analysis, and EVR 2641, Hazardous Materials Regulations 2. The student must have satisfactorily completed VCC courses; A Survey of Hazardous Materials Regulations, Elementary Risk Assessment, Hazmat Communications, Environmental Compliance, and the Hazard Communications Bridge Course EVR 2631. (2 hour lecture)

EVR2890

Instrumentation Monitoring

& Sampling 3 credits

Emphasis is placed on the methodology of sampling, analyzing, and interpreting results of hazardous materials. The program will include industrial hygiene sampling, testing Ph and moisture content, selecting analytical service laboratories and an introduction to chemical methods of analysis including spectroscopy and chromatography. (2 hr lecture; 2 hour lab)

EVR2940

Environmental Internship 3 credits

This course provides an exciting opportunity for environmental science students. Through a community internship, students gain professional experience and first-hand knowledge in various environmental careers. This course pairs students with community professionals who involve them in important projects and research. Mentors are assigned and monitor, in cooperation with the MDC-Environmental Science Program, the progress and performance of each student. The students will be placed on a semester basis with several different environmental agencies both public and private. Prerequisite EVR 1001, EVR 1262. (3 hour lecture)

Fashion

CTE1401

Textiles 3 credits

The identification and analysis of fibers, yarns, fabrics and finishes, with emphasis on the durability, care and price of newer fibers and blends as well as standard dress fabrics. (2 hour lecture, 2 hour lab)

CTE1705

Fashion Design

Fundamentals 3 credits

An exploration of the basic principles and plastic elements of fashion design, with emphasis on line, color, form, space, and texture as they apply to apparel. Laboratory fee. (1 hour lecture; 4 hour lab)

CTE1731

Fashion Illustration 1 3 cre

Basic skills in sketching the fashion figure and apparel are developed. Varied media and current rendering techniques are explored. Laboratory fee. (1 hour lecture; 4 hour lab)

Film, Radio, TV Technology

FIL1030

History of Film 3 credits

The student becomes familiar with important films, techniques and styles as well as industrial and social developments of the cinema. Special fee. (3 hour lecture)

FIL1055

American Independent

Cinema 3 credits

This course beyond specifically examining the economic impact of independent films on the industry, will also examine the emergence of the Hollywood majors into the independent film marketplace as a means of (1) understanding the nature of their business and the inherent opportunities/threats that lie therein, and (2) designing a way of approaching the creative and business production of independent cinema. (3 hour lecture)

FIL1100

Screenwriting 1:

Understanding

Dramatic Structure 3 credits

This is a beginning workshop class covering narrative script writing for film and television. Working in a collaborative group environment, students will concentrate on developing a short-format screenplay and will learn three-act dramatic story structure, script elements, their applications and standard industry formatting. (3 hour lecture)

FIL1360 Survey of

Documentary Film 3 credits

This course explores the historical development of the nonfiction film. Students will learn the history of the nonfiction film from its origins in the late 1800's to the present with an emphasis on the works of American and European filmmakers. Films will be presented and discussed in the socio-political and cinematic context of their release time. (3 hour lecture)

FIL1420C

Film Production 1: Introduction

to the Filmmaking Process 4 credits
An introduction to the art and tools of narrative filmmaking. Students will learn industry
procedures and protocols as well as visual
storytelling and editing in the production of
several silent Super 16mm films. Pre/corequisite: FIL 2552C with grade of C or better.
(2 hour lecture; 4 hour lab)

FIL1431C

Film Production 2: Basic

Cinematography and Sound 4 credits
This course is an introduction to sync-sound
filmmaking. Students will learn the fundamentals of cinematography and sync-sound
recording in the production of Super 16mm
films. Prerequisites: FIL 1420C and FIL 2552C,
both with a grade of C or better. (2 hour lecture; 4 hour lab)

FIL1949

Co-op Work

Experience 1: FIL 3 credits

This course is designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

MDC 2008-10 CATALOG

FIL2130

Screenwriting 2:

Character Development 3 credits

The student will learn character development for narrative motion picture screenplays with emphasis on dialogue, motivation and development of character analysis. Prerequisite: FIL 1100. (3 hour lecture)

FIL2310

Film Camera and Lighting 2 credits
Students learn more advanced relationship
between film and lighting and apply this to
creative production in 16mm film. Laboratory
fee. (1 hour lecture; 2 hour lab)

FIL2370

Film Workshop 3 credits

Advanced film techniques are used to produce a short film. Students will go through all the steps required in film production of a 16mm film. Prerequisite: Permission of department chairperson. A.S. degree credit only. Special fee. (2 hour lecture; 2 hour lab)

FIL2407

Film/Pre-Production 2 credits

This class prepares students for the film production process by introducing them to the technical and organizational aspects of filmmaking that need to be completed before the first day of production. Students will learn all aspects of pre-production planning and preparation including analyzing and interpreting scripts, storyboards, fax sheets and set designs, casting, wardrobe and make-up considerations and they will learn to prepare a location and studio set-up. (1 hour lecture; 2 hour lab)

FIL2413

Screenwriting and

Storyboarding 3 credits

This course will introduce techniques involved in screenwriting and storyboards to include the analysis of already published works in other media for adaptation to film/video. Prerequisite: FIL 1100 or department approval. (3 hour lecture)

FIL2480C

Film Production 3 4 credits

This course covers directing for film. Students will learn how to direct a film, from the preproduction stage through the shooting process and post-production, by producing individual short films. Prerequisites: FIL 1431C, 2553C with a grade of C or better. Laboratory fee. (2 hour lecture; 4 hour lab)

FIL2515C

Film Production 4 4 credits

This course emphasis preproduction and production protocols, direction of actors, rehearsals, camera staging, scene coverage and shooting for continuity. Working in teams, the students learn to apply the knowledge acquired in previous film courses to the production of short narrative sound films in Super 16mm of portfolio quality. Prerequisite: FIL 2480C and FIL 2553C with a grade of C or better. (2 hour lecture; 4 hour lab)

FIL2552C

Editing: Level 1 3 credits

Students will learn basic theory and practice of non-linear editing, and the basic workflow of capturing, editing, titling, and outputting, while utilizing Final Cut Pro editing software. Laboratory fee. (2 hour lecture; 1 hour lab)

FIL2553C

Editing: Level 2 3 credits

Students will learn intermediate level theory and practice of non-linear editing, with an emphasis on editing sound for narrative productions, using Final Cut Pro editing software. Prerequisite: FIL 2552C with a grade C or better. Laboratory fee. (2 hour lecture; 2 hour lab)

FIL2560C

Editing: Level 3 3 credits

This course focuses on editing techniques using the Avid platform. Students will transfer their Final Cut Pro proficiency gained in Editing 1 and 2 to the Avid platform, while learning to perform functions exclusive to the Avid. Prerequisite: FIL 2553C with a grade of C or better. Laboratory fee. (2 hour lecture; 2 hour lab)

FIL2572C

Advanced Video

Post Production 3 credits

Students will learn advanced theory and practice of non-linear editing. The course will concentrate on effects, color correction and editorial working practices. Prerequisite: FIL 2552C, 2553C with a grade of C or better. Laboratory fee. (2 hour lecture; 2 hour lab)

FIL261

Film Business Marketing

Distribution Exhibition 3 credits
Examination of the functional areas within
marketing as well as the various distribution
means (both current and projected) that are
governing the sale of independent feature
films or films financed outside of the studio
system. Students learn to distribute their own
selected films in this course. Prerequisite: FIL
1431. (3 hour lecture)

FIL2922C

Film Production Workshop 4 credits

This film production course will offered on a limited basis, for students who are lacking necessary production credits, due to changes in the curriculum. This course emphasis preproduction and production protocols, direction of actors, rehearsals, camera staging, scene coverage and shooting for continuity. Prerequisite: FIL 2515C. (2 hour lecture; 4 hour lab)

FIL2945

Film Internship 3 credits

Students are placed in industry positions to work 15 hours per work for on-the-job training. Prerequisite: FIL 1431C or departmental approval. (15 hrs. per week)

FIL2949

Co-op Work

Experience 2: FIL 3 credits

This course is designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisites: Cooperative Education Office approval and completion of 1949 Co-Op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Prerequisite: FIL 2515C. (3 hour lecture)

RTV1100

Writing for Electronics Media 3 credits

This course should enable you to write comfortably for the media in a variety of formats. You will be introduced to analysis and preparation of scripts that emphasizes common principles of wording for mass media of communication and formats peculiar to each medium. You should learn basic broadcast principles of copy preparation, first for radio and then for the added requirements of television news. Particular attention will be given to commercials and public service announcements. There will be opportunities to study and write documentaries and other long-form programs. At the end of the course, you should understand what goes into a script and have the ability to write a workable script in the medium of your choice. (3 hour lecture)

RTV1240C

Radio Production 3 credits

Basic operational procedures and practices of audio control room functions, the studio areas of radio, television, film, and sound recording operations. Laboratory fee. (2 hour lecture; 2 hour lab)

RTV1241C

TV Studio Production 1 4 credits

The practices and procedures used in the operation of broadcasting equipment in the television equipment in the television studio and control room emphasizing practical rather than theoretical operational elements of the television program. Laboratory fee. (2 hour lecture; 4 hour lab)

RTV1242C

TV Studio Production 2 4 credits

Studio production with emphasis on producing a prescripted show. Equipment operations is stressed including on-air video effects and expanded switcher capability. Prerequisites: RTV 1100, 1241C. Laboratory fee. (2 hour lecture; 4 hour lab)

RTV1949

Co-op Work

Experience 1: RTV 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)



RTV2226

Broadcast News 3 credits

Basic and practical familiarization with the mechanics and procedures of the news room. Adaptation of local and wire copy for audio and film, placement of commercials, news service, style guides, news copy editing, approaches to information sources, methods of applying for job are discussed. Students will work together to produce a complete studio newscast. Special fee. Prerequisites: RTV 1100, 1241C. (1 hour lecture; 2 hour lab)

RTV2230C

Radio and

Television Announcing 3 credits

Training in microphone technique and speech, including pronunciation and enunciation intonation and inflection for radio and television broadcasting. Practice in writing, rewriting, copy editing and delivering major types of copy-news, sports, and commercials. Special fee. (2 hour lecture; 2 hour lab)

RTV2243C

Television Directing 3 credits

Basic operational procedures and practices of directing for television. Prerequisite: RTV 1242C. Laboratory fee. (2 hour lecture; 2 hour

RTV2244

TV Direction 2 3 credits

Provides a deeper knowledge of the directing equipments in a television crew. The students work for several different producers and develop a reasonable competence in handling a wide variety of producing and directing situations. Prerequisite: RTV 2243C. (2 hour lecture; 2 hour lab)

RTV2245C

Electronic Field

Production 1 4 credits

This course covers single-camera field production and electronic news gathering for television. Students will learn writing, producing and editing for single-camera television production. Prerequisite: RTV 1242C, FIL 2552C. (2 hour lecture; 4 hour lab)

RTV2246C

Electronic Field

Production 2 4 credits

Students will learn advanced single-camera and multi-camera productions on location with full editing and other post-production techniques. Prerequisite: RTV 2245C. (2 hour lecture; 4 hour lab)

RTV2248C

Television Workshop 3 credits

Production of TV shows from the script to the taping and the fully edited master. Includes post production if required. This course combines learning outcomes from all previous production courses through professional level productions. Prerequisite: RTV 2246C. Laboratory fee. May be repeated for credit. (1 hour lecture; 4 hour lab)

RTV2249C

Radio Program Operations 3 credits Instruction and practice in the preparation and delivery of various types of radio programming. Students combine knowledge of station organization and procedures, operational language, skills and procedures, and announcing skills, and techniques with new materials of format preparation and presentation as required by typical announcer-operators found in smaller stations. Prerequisites: RTV 1241C. Laboratory fee. (2 hour lecture; 2 hour lab)

RTV2252

TV/Video Pre-Production 2 credits

Students will learn all aspects of pre-production planning and preparation including analyzing and interpreting scripts, storyboards, fax sheets, and set designs, casting wardrobe and make up considerations and they will learn to prepare a location and studio set-up. (1 hour lecture; 2 hour lab)

RTV2940

Internship 3 credits

Students will gain industry experience working in a broadcasting business or on a project under the supervision of a professional. Minimum requirements are 15 hours per week and departmental approval. (3 hour lecture)

RTV2941

Fall Television Practicum 3 credits

This course is an advanced internship with limited enrollment requiring departmental approval. Students will learn advanced camera and lighting techniques, while assisting in the production of shows for Cable-TAP television. Miami-Dade County's official community access channel. AS degree credit only. Prerequisite: RTV 1242C. (6 hour lab)

RTV2942

Spring Television Practicum 3 credits

This course is an advanced internship with limited enrollment requiring departmental approval. Students will learn advanced camera and lighting techniques, while assisting in the production of shows for Cable-TAP television. Miami-Dade County's official community access channel. AS degree credit only. Prerequisite: RTV 1242C. (6 hour lab)

RTV2943

Summer Television

Practicum 3 credits

This course is an advanced internship with limited enrollment requiring departmental approval. Students will learn advanced directing and floor management techniques, while assisting in the production of shows for Cable-TAP television, Miami-Dade County's official community access channel. Prerequisite: RTV 1242C.AS degree credit only. (6 hour lab)

RTV2949

Co-op Work

Experience 2: RTV 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-Op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

VIC1000

Visual Communications 3 credits

An introductory level course for persons being trained in the visual aspects of film and video production and related fields specifically dealing with design elements and principles in the moving image. Emphasis is on sight, sound and motion. (2 hour lecture; 2 hour lab)

VIC1202C

Video Compositing

3 credits and Motion Graphics 1

This course is an introduction to visual effects for film and television. The student will learn basic level techniques of still and motion graphic design in visual effect compositing for film and video using Photoshop and After Effects. Prerequisite: FIL 2552C. Laboratory fee. (2 hour lecture; 2 hour lab)

VIC2203C

Video Compositing

and Motion Graphics 2 3 credits

This course is an intermediate course in visual effects for film and television. The student will learn intermediate level techniques of still and motion graphic design in visual effect compositing for film and video using Photoshop and After Effects. Prerequisite: VIC 1202 with a grade of C or better. (2 hour lecture; 2 hour lab)

VIC2204C

Video Compositing

3 credits

and Motion Graphics 3 This course is an advanced course in visual effects for film and television. The student will learn advanced level techniques of still and motion graphic design in visual effect compositing for film and video using Photoshop and After Effects. Prerequisite: VIC 2203C with a grade of C or better. Laboratory fee. (2 hour lecture; 2 hour lab)

FIN2000 Principles of

Finance 3 credits

The creation, allocation, and utilization of money, and the effect of monetary policy upon individuals, business, national and international economics. This course provides a basis for further study of monetary theory, banking, finance and securities. (3 hour lec-

FIN2010

Investments in

Stocks and Bonds 3 credits

The basic principles of the stock market as they affect the individual investor in stocks and bonds. Investment in these securities is studied from the standpoint of the short-term and long-term investors. (3 hour lecture)

FIN2051

International Financial

Management 3 credits

The basic concepts and principles of international finance, with consideration of the financial environment, transactions, and flows. Exchange rates, risks, and government policies affecting business are analyzed as well as management policies and decisions. (3 hour lecture)

FIN2100

Personal Finance 1-3 variable credits

A study of economic and personal goals including personal budgeting, credit budgeting, borrowing money, banking facilities, the nature of investments, life insurance, casualty insurance, home ownership, stocks and bonds, and retirement plans. (1-3 hour lecture)

Fire Science

FFP1000

Fire Protection 3 credits

Career opportunities in jurisdictions responsible for protection and prevention of loss of lives and property due to fire. An abbreviated review of regulating codes and agencies, suppression requirements and the basis of a fire prevention program. (3 hour lecture)

FFP1040 Industrial Fire

Protection 1 2-3 variable credits

Specialized instruction and training for public and private sector business and industry who maintain a fire brigade at the incipient level, as defined by OSHA Regulations 29 CFR, 1910, Subpart L. Minor curriculum variations and added hours will be made to accommodate the varying needs of local business and industry. (2-3 hour lecture)

FFP1140

First Response

for Fire Service 3 credits

A training course for students who will provide basic life support to victims of emergencies, to minimize patient's discomfort and prevent further injury. This course is required for acceptance to EMS classes and is a required part of Fire Fighter Training, but may be taken by itself. (2 hour lecture; 2 hour clinic)

FFP1505

Fire Prevention 3 credits

Florida State Fire Marshals regulations as they relate to fire prevention. Surveys of other authoritative sources, codes and ordinances such as the National Fire Code, miscellaneous model codes, underwriter's laboratory, and the fire prevention intent of various codes. (3 hour lecture)

FFP1710

Supervision-Leadership for

Fire Officers 3 credits

Analysis of the broad concepts of supervision and leadership to analyze the kinds of effective leadership-fellowship needed in the fire services, and how roles and attitudes must change in the high stress conditions to which fire fighters are routinely exposed. One of four courses recommended by the Florida Fire Standards Council for Pre-Officer Training. (3 hour lecture)

FFP2120

Building Construction

for Fire Science 3 credits

A study of buildings fire codes; life safety and OSHA fire protection codes; a study of basic building construction files and the behavior of building materials during a fire; a survey of research and standards development. (3 hour lecture)

FFP2301

Fire Hydraulics 3 credits

The basic theories of hydraulic as applied to the fire services. The mathematics and formulas necessary to solve fire stream calculations and any such variables. Prerequisites: MTB 1321 or equivalent ability to square numbers and perform square root is required. (3 hour lecture)

FFP2305

Fire Apparatus

and Equipment 3 **credits** Various mechanical, hydraulic, pneumatic

various mechanical, nydratine, pneumatic and electrical systems found on heavy duty, high performance fire apparatus. Why and how major parts work, their relationship, and the emergency procedures followed to make equipment apparatus are studied. Prerequisite: FFP 2301. (3 hour lecture)

FFP2401

Hazardous Materials 1 3 credits

An introduction to flammable hazardous materials and the basic chemical and physical properties of matter as found in solid, liquid or gaseous forms. Hazardous environmental conditions and the interaction of materials are discussed. (3 hour lecture)

FFP2402

Hazardous Materials 2 3 credits

A further study of hazardous materials with emphasis on unstable chemicals; explosive substances and their handling; exotic fuels (solids and liquid propellants); pesticides, corrosive toxic and radioactive substances. Standard operating procedures for fire departments will be discussed. Prerequisite: FFP 2401. (3 hour lecture)

FFP2510

Fire and Building Codes 3 credits

The national, state and local municipal fire codes with emphasis on local laws and ordinances related to life-safety features designed

into structures of all types. Emphasis is on the fire prevention requirements of the South Florida Building Code. Prerequisite: FFP 1710. (3 hour lecture)

FFP2521

Blueprint Readings

and Plans Review 3 credits

A study of building construction plans review and examination with an emphasis on building integrity, Life Safety and code compliance. Prerequisite: FFP 2810. (3 hour lecture)

FFP2540

Fire Detection

and Suppression Systems 3 credits
Various electronic fire detection devices and
systems; the kinds and operation of various
mechanical and automatic suppression systems, and the chemical reactions that various
suppressants make when in contact with

hazardous materials. (3 hour lecture)

FFP2590

Fire Inspector

Preparation 1-9 variable credits Life/fire safety and building codes used by all fire department inspectors in Greater Miami-Dade County as well as inspection process, procedures and reporting requirements for each occupancy classification. Successful completion of the course leads to specialized certification as a Fire Inspector. Prerequisite: Permission of department chairperson. (1-9 hour lecture)

FFP2604

Arson Detection

and Investigation 3 credits

An introduction to arson laws and types of incendiary fires. Students study methods of determining fire cause, recognizing and preserving evidence, the phenomenon of pyrolysis; normal patterns of structural fires; interviewing witnesses, court procedures and giving court testimony. Prerequisite: FFP 2301. (3 hour lecture)

FFP2666

Airport & Aircraft Fire

Protection and Operations 3 credits
Introductory instruction, for those persons
assigned to an airport fire department, including working knowledge of aircraft types, and
extinguishing systems, airport firefighting
equipment; extinguishing agents. Students
will become familiar with airport operations,
training, general fire prevention and activities
during fueling. Training is in compliance with
national, state and county aviation requirements. Special fee. (3 hour lecture)

FFP2700

Fire Department

Management 3 credits

The municipal supervision-management policies, practices and procedures necessary to keep the firefighting team ready to implement fire prevention/suppression activities. One of four courses recommended by the Florida Fire Standards Council for Pre-Officer Training. Prerequisite: FFP 1710. (3 hour lecture)



FFP2740 Fire Service Instructor

3 credits

The instructors' responsibilities in transmitting good study habits, class communication; human relations; learning and teaching concepts; job analysis, identifying teaching objectives; teaching methods and techniques; instructional aids and criteria and performance based evaluations. One of the four elements of instruction required by the Florida Fire Fighter Standards Council for Pre-Officer eligibility. Prerequisite: ENC 1101. (3 hour lecture)

FFP2741

Fire Service

Instructor (Course Design) 3 credits Fire Service Instructor (Course Design) emphasizes techniques that will assist the Fire Service Instructor develop skills in curriculum development including the importance of an active training program. Students will learn the principles of effective curriculum design for adult and student centered learning. They will understand how to design courses and units related to learning, teaching, performance, and behavioral objectives. The State Fire Marshal, Bureau of Fire Standards and Training require this course for instructor II and III certification. This certification enables the instructor to teach higher-level courses (i.e.: Fire Officer I and II, Fire Inspector.). (3 hour lecture)

FFP2781

Municipal Fire

Administration 3 credits

Administrative procedures necessary for the efficient appraisals, improvement, and implementation of fire protection services of a city/county government. The interrelationships of departmental organization, personnel management, fire alarm signaling systems, fire insurance regulations and the maintenance of mutual aid with other departments. (3 hour lecture)

FFP2810

Fire Fighting

Tactics and Strategy 3 credits

The principles of efficient utilization of manpower, equipment, and apparatus with emphasis on pre-fire planning, decision making and problem-solving related to fire-ground tactics. One of four courses recommended by the Florida Fire Standards Council for Pre-Officer Training. Prerequisite: sophomore standing in program or employed Fireman. (3 hour lecture)

FFP2811

Command Tactics

and Strategy 3 credits
An advanced study of sophisticated urban

An advanced study of sophisticated urban problems involving large scale movement of people and equipment; mutual aid agreements and their authority relationships; natural and man-made catastrophes. Emphasis is on communication and command responsibilities. Prerequisite: FFP 2810. (3 hour lecture)

Food Service

FOS1201

Food Sanitation

3 credits

Major topics covered scientific rationales for safety and sanitation procedures; causes of food-borne illnesses and preventive measures; sanitation practices; and safety regulations and practices. (3 hour lecture)

FSS1100

Food Purchasing/Menu Design 3 credits

The relationship of facility, equipment and staff capabilities to menu content. Development of the menu as an effective sales tool. Menu format and design as an aid to merchandising. (3 hour lecture)

FSS1115

Food Preparation/

Menu Design

3 credits

The relationship of facility, equipment and staff capabilities to menu content. Development of the menu as an effective sales tool. Menu format and design as an aid to merchandising. (3 hour lecture)

FSS1202C

Elementary Food

Preparation 4 credits

Production and the use of food and materials, development of standards of food preparation; the effect of these factors upon economics, nutritive value, and aesthetic appeal of food materials.A.S. degree credit only. (2 hour lecture; 4 hour lab)

FSS2224

Quantity Food

Preparation 3 credits

Advanced food preparation. Emphasis is placed on the application of these skills in realistic management operating situations. Corequisite: FSS 2225L.A.S. degree credit only. (2 hour lecture; 2 hour lab)

FSS2225L

Quantity Food

Preparation Laboratory 2 credits On-hand preparation of meals in quantity portions using commercial equipment, standard recipes, and menu items catered to the Wolfson Campus population. Corequisite: FSS 2224. A.S. degree credit only. (4 hour lab)

FSS2240C

Creative Cooking 3 credits

Basic cooking skills and the necessary culinary skills required in classical cuisine for special interest students. The course focus will be on production of international menu items with emphasis in European cuisine. Prerequisite: FSS 1202C. Laboratory fee. A.S. degree credit only. (3 hour lab)

FSS2431

Food Facilities

Layout and Design 3 credits

Planning of food service facilities is stressed; time and motion principles are employed;

equipment purchasing techniques analyzed. (3 hour lecture)

Foreign Languages (in Translation)

FOT2800

Introduction to

Translation 3 credits

Develops the ability to do accurate written translations in general. Includes the application of contrastive structures and grammar rules of source and target languages; translation of idiomatic expressions and an introduction to legal and technical vocabulary; the use of bilingual dictionaries and glossaries. The demands of translation as a profession and its code of ethics are stressed. (3 hour lecture)

FOT2803

Legal Translation

3 credits

Continuation of SPT 2800. Written translations of multi-page documents and/or articles containing legal, technical and other specialized vocabulary from the source language into the target language. Firsthand translation experience by participating in a translator's bureau, or an internship or practical training program. (3 hour lecture)

FOT2808

Medical Translation 3 credits

This course further develops translation strategies while familiarizing the student with the characteristics of medical and health-related discourse in both English and Spanish. Included is the acquisition of medical and hospital/clinic terminology and the analysis of related linguistic structures so students can engage in translating texts from English into foreign language and vice versa. Prerequisites: FOT 2800, 2803. (3 hour lecture)

FOT2809

Medical Interpretation 3 credits

This course develops the techniques, practices and knowledge needed to function as interpreters in a medical environment. Interpreting models such as sight, consecutive and simultaneous – as they apply to the medical setting – are revisited. Medical vocabulary/terminology in English and foreign language as well as code of ethics will also be introduced. Prerequisites: FOT 2810, 2815, and FOT 2816 (recommended). (3 hour lecture)

FOT2810

Introduction to

Interpretation 3 credits

The acquisition and development of the abilities to convert an oral message from the source language into another consecutive oral message in the target language. (3 hour lecture)

0**0** 2008-10 CATALOG

FOT2815

Consecutive Interpretation 3 credits This course builds on the foundation established in Introduction to Interpretation (SPT2810) and acquaints the students with the practice and application of consecutive interpretation (English/Spanish). Development of active listening, concentration and retention skills as well as the ability to perceive essential meaning for subsequent recall is emphasized. This course also explores basic note taking techniques and provides practice in monolateral and bilateral consecutive interpretation. Prerequisite: SPT2810. (3 hour lecture)

FOT2816

Simultaneous

Interpretation Strategies 3 credits This course builds on the foundation established in previous interpretation courses while introducing the students to simultaneous interpretation (English/Spanish) by providing preparatory exercises such as shadowing, lagging, paraphrasing etc. Through a variety of recorded materials, students practice the simultaneous interpretation mode so as to acquire smooth delivery techniques while forming good professional habits. Prerequisites: SPT 2810, 2815. (3 hour lecture)

FOT2820

Computer Assisted

Translation 1 3 credits Examines the types of translation software currently used in the translation/interpretation profession as well as the commercial use and business application of these. Description and application of tools such as translation memory, electronic dictionaries, desktoppublishing systems, and website translation technologies are covered. Prerequisite: CGS

FOT2832

Financial and

1060. (3 hour lecture)

Business Translation

This course further develops translation strategies while familiarizing the students with the characteristics of financial and business discourse in both English and Spanish. Included is the learning of special terminology and related linguistic structures so students can engage in the translation of texts

containing financial/business or economic discourse from English into Spanish and vice versa. As in legal translation, students engage in terminology research and glossary development through the use of specialized bilingual financial and business dictionaries and other pertinent sources. Prerequisites:

FOT 2800, 2803. (3 hour lecture)

FOT2833

Court Interpreting Skills 3 credits Continuation of SPT 2810 including deepening and broadening the type of exercise of SPT 2810 and gradual introduction to simultaneous interpretation. Oral translation with notes and conversations, ratio or tape passages. Extensive practice in the process of hearing, understanding, remembering and speaking for simultaneous oral interpretation. Participation in an internship or practical training program. (3 hour lecture)

French Language and Literature

FRE1113

Phonetics and

3 credits

Vocabulary 1 Applied phonetics and vocabulary development. Level 1. Offered through Overseas Study Program. (3 hour lecture)

FRE1114

Phonetics and

3 credits

Vocabulary 2 Applied phonetics and vocabulary development. Level 2. Offered through Overseas Study Program. (3 hour lecture)

FRE1120

Elementary French 1 4 credits

An integrated (multi-media) approach to acquire proficiency in the basic skills (of the language)-listening/understanding, speaking, reading, writing, and across-cultural awareness. Emphasis on practical vocabulary and accurate pronunciation. Practice in class and laboratory in understanding and using the spoken language; reading and writing with progressive grammatical explanations. (4 hour lecture)

FRE1121

Elementary French 2 4 credits

A continuation of FRE 1120. A proficiencyoriented course emphasizing the mastery of the basic skills of the language. Prerequisite: FRE 1120. (4 hour lecture)

FRE1170

3 credits

France Travel Study 3 credits

Combines the study of French with travel to France or a French-speaking nation and in consultation with the instructor, presentation of a project focusing on some aspect of culture or life of the country or region visited. (3 hour lecture)

FRE2201

Intermediate French 2 3 credits

Understanding, speaking, reading writing and cross-cultural awareness, through a systematic review of reading and writing skills with emphasis on oral as well as written expression. Prerequisite: FRE 2220. (3 hour lecture)

FRE2220

Intermediate French 1 4 credits

French culture learned through a systematic review of reading and writing skills with emphasis on oral as well as written presentation. Prerequisite: FRE 1121 or equivalent. (4 hour lecture)

FRE2240

French Oral Expression 1 3 credits

Developing skills in conversation. Oral structures. Vocabulary expansion. Phonetic correction. Level 1. Offered through Overseas Study Program. (3 hour lecture)

FRE2241

French Oral Expression 2 3 credits

Developing skills in conversation. Oral structures. Vocabulary expansion. Phonetic correction. Level 2. Offered through Overseas Study Program. (3 hour lecture)

FRW2010

Selected Readings

in French Literature 1 3 credits

A study of outstanding works authors, genres, or literary currents in France. (3 hour lec-

FRW2020

Selected Readings

in French Literature 2 3 credits A study of outstanding works, authors, genres,

or literary currents of French expression in francophone nations or areas. (3 hour lecture)

Funeral Services Education

ESE1000

Introduction to

3 credits **Funeral Services**

The principles of funeral service and its history. A study of the ethical obligations and fundamental requirements, involving skill, aptitudes, and qualifications of funeral directors.A.S. degree credit only. (3 hour lecture)

FSE1080

3 credits **Funeral Law**

Federal, state and municipal statutes, rules, regulations and ordinances pertaining to funeral service; torts, contract and administrative laws, and financial disclosures pertinent to funeral operations and management. A.S. degree credit only. (3 hour lecture)

FSE1105

Funeral Service Chemistry 3 credits

A survey of the basic principles of chemistry as they relate to funeral service. Especially stressed are the chemical principles and precautions involved in sanitation, disinfection, public health and embalming practice. A.S. degree credit only. (3 hour lecture)

FSE1204

Computer Literacy

in Funeral Services 1 credit

This is a hands-on, basic computer literacy course designed to acclimate the funeral services student to computers and their usage as they relate to the funeral services' industry. Special fee. (2 hour lab)

FSE2060

Funeral Directing 3 credits

Study of various religious, fraternal, military, traditional, nontraditional and humanistic variations of funeral ceremonies, including cultural, ethnic and geographic customs. A.S. degree credit only. (3 hour lecture)



FSE2061

Thanatology 3 credits

Psychological and sociological dynamics of death, dying, and bereavement. Dynamics of counseling demonstrated through role-playing video critique and analysis. Prerequisite: FSE 1000.A.S. degree credit only. (3 hour lecture)

FSE2100

Embalming 1 3 credits

Orientation to basic embalming skills, case analysis, chemical composition, post-mortem changes, instrumentation and disinfection. Corequisite: FSE 2100L.A.S. degree credit only. (3 hour lecture)

FSE2100L

Embalming 1 Lab 2 credits Laboratory for FSE 2100. Laboratory fee. Corequisite: FSE 2100. A.S. degree credit

only. (4 hour lab)

FSE2106

Funeral Service Microbiology 3 credits

This course is a survey of the basic principles of microbiology as it relates to Funeral Science. It emphasizes the importance of sanitation, disinfection, public health in the embalming practice. (3 hour lecture)

FSE2120

Restorative Art 3 credits

Anatomical study of human features; familiarization with instruments, human proportions, special materials and techniques. Corequisite: FSE 2120L. A.S. degree credit only. (3 hour lecture)

FSE2120L

Restorative Arts Lab 1 credit

Laboratory for FSE 2120. Practice and techniques in reconstructive modeling. Corequisite: FSE 2120. Laboratory fee. A.S. degree credit only. (2 hour lab)

FSE2140

Embalming 2 3 credits

Emphasis on embalming considerations and procedures for pathogenesis and advanced decomposition, use of specialized chemicals, treatment of post-mortem cases and advanced techniques. Corequisite: FSE 2140L. A.S. degree credit only. (3 hour lecture)

FSE2140L

2 credits **Embalming 2 Lab**

Laboratory for FSE 2140. Corequisite: FSE 2140. Laboratory fee. A.S. degree credit only. (4 hour lab)

FSE2160

General, systemic and forensic pathology with emphasis on analysis of pre- and post-mortem histology, cytology and etiology; causative factors relating to death and determination of cause of death. Prerequisite: BSC 1084.A.S. degree credit only. (4 hour lecture)

FSE2200

Funeral Service Accounting 3 credits An introduction to basic principles of accounting theory. This subject covers financial statements and their analysis, journalizing, receivables, payables, deferrals, and accruals. Inventory costing models depreciation models and payroll accounting are included. Applications to funeral home operations are made throughout the subject material. A.S. degree credit only. (3 hour lecture)

FSE2201

Funeral Home

Operations 3 credits

Theoretical and practical training in all areas of funeral home operations; laboratory experience in merchandising and funeral arrangements. Corequisite: FSE 2200. A.S. degree credit only. (3 hour lecture/lab)

FSE2202

Funeral Service

Business Management 3 credits

The role and function of an effective manager is explored. Emphasis is placed on the management functions of planning, organizing, motivating, directing, and controlling. How to purchase a small business is also covered.A.S. degree credit only. (3 hour lecture)

FSE2203

Funeral Home

Application 3 credits

Applications in funeral service with emphasis on the practical aspects of funeral directing. Procedures on taking first call, buying and selling of merchandise, funeral arranging, conducting funerals, job interviewing, and resume writing. Prerequisites: FSE 2060, 2061, 2200, 2202. (3 hour lecture)

FSE2931

Funeral Service

Professional Review 1 credit

This course is for the Funeral Science student who is graduating and taking the National Board Examination at the end of the semester that this course is being offered. The course is a review of the science section of the Funeral Science courses in order to help prepare the student for the National Board Examination. Prerequisite: Permission of the department is required. (2 hour lab)

FSE2932

Funeral Science

Professional Review 2

This course is for the funeral Science student who is graduating and taking the National Board Examination at the end of the semester that this course is being offered. The course is a review of the Arts section of the Funeral Science courses in order to help prepare the student for the National Board Examination. Prerequisite: Permission of the department is required. (2 hour lab)

General Business

Principles of Business 3 credits

Basic principles of ownership, management, marketing, personnel, finance, accounting, business research and law as they affect the operation of American business and industry. (3 hour lecture)

GEB1949

Co-op Work

Experience 1: GEB 3 credits

This course is designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

GER2112

Introduction to

3 credits

Entrepreneurship This is a foundation course in the modern treatment of business entrepreneurship. Students will learn the elements of start-up/ buy-out, franchising, business plans, marketing plans, human resources, financial planning, legal forms, products/services, selling, advertising, management policies, accounting systems, tax issues, capital management, computers, risk management, and business ethics. (3 hour lecture)

GEB2350

Introduction to

International Business 3 credits

Provides an overview of the cultural environment of international business and the institution which affects business today. International economic, political, and trade issues are analyzed in the context of socioeconomic goals and policies of the nations involved. (3 hour lecture)

GEB2893

Strategic & Policy Issues in

Non-Profit Organizations 3 credits

This course provides a culminating experience for the student involved in the nonprofit sector to integrate course work with current issues in the nonprofit field. Three to four topics relevant to the management and boards are previewed with professionals from these areas as guest speakers. An understanding of the case study method will be required in order for students to prepare a case study for their nonprofit organization and propose a solution. Issues to be included are: resource development, financial management, technology, and capacity building. Students will present their findings in a formal presentation to industry professionals. It is recommended that students take this course in their final semester. (Annually the topics selected for inclusion will be reviewed.) (3 hour lecture)

10 2008-10 CATALOG

3 credits

GEB2949

Co-op Experience 2: GEB

This course is designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisites: Cooperative Education Office approval and completion of 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

Geography

GEA2030

Regional Geography

of the Non-Western World 3 credits Description and analysis of the nations and regions of the non-Western World. Universal geographic concepts are emphasized. The relative location of regions and nations is evaluated in terms of their physical environments and political and economic trends. Emphasis is also given to demography and resource utilization. (3 hour lecture)

GEO2000 Basic Concepts

3 credits in Geography

This course is designed as an introduction to the basic concepts in geography. The course is specifically aimed at those individuals who teach or will teach social studies skills in primary and secondary schools and was developed to improve the delivery of geographic education. (3 hour lecture)

GEO2420

Introduction to

Cultural Geography 3 credits

This course is an introduction to cultural geography and is structured around the five basic themes in geography: location, place, human-environment interaction, movement and regions. The student will be exposed to the differences between places, the dynamic aspects of culture and the physical environment. Lastly, the course will heighten the student's awareness of the visible expressions of culture and landscape. (3 hour lecture)

GIS2040

Introduction to GIS 4 credits

An introduction to Geographic Information Systems. Included in awareness of G.I.S., an introduction to G.I.S. models and formats, as well as map making and analysis. Students will use ArcView G.I.S. software. (3 hour lecture; 2 hour lab)

GIS2045

Intermediate GIS 4 credits

A second course in G.I.S. utilizing ArcView software. This course covers discreet geocoding and geoconferencing, data input, spatial databases, creation of data and the use of ArcView Network Analyst Extension. (3 hour lecture; 2 hour lab)

GIS2046

Advanced Geographic **Information Systems** 4 credits

The final course in 3 semester sequence in G.I.S. utilizing ArcView G.I.S. software. In this course the student will use ArcView G.I.S. Spatial Analyst extension as well as learn how to conceptualize spatial problems, data, and operations. Students will also be introduced to remote sensing and image processing principles and techniques including the use of ArcView's Image Analyst Extension. (3 hour lecture; 2 hour lab)

General Education

Earth Science

Selected concepts and principles of earth science taken from the areas of astronomy, geology, meteorology and oceanography. (3 hour lecture)

ESC1000L

General Education

Earth Science Lab 1 credit Optional laboratory for GLY 1001.

Corequisite: GLY 1001. Laboratory fee. (2 hour lecture)

GIY1010

Physical Geology 3 credits

The fundamental concepts of geological process and structures. Plate tectonics is integral to this course which is intended for both majors and non-majors. Majors are strongly advised to take GLY 1010L. (3 hour lecture)

GLY1010L

Physical Geology

Laboratory

Laboratory for GLY 1010. Studies of common minerals and rocks and topographic and geologic maps along with aerial photography. Corequisite: GLY 1010. Laboratory fee. (2 hour lab)

Geomorphology of

the United States

This course involves a study of the origin, evolution and description of landforms that comprise the geomorphic features of the United States. Specific competencies include the study of the major geological processes, agents that form and fashion land, the examination of present day landforms, and the concepts of landform evolution. This course will include the examination of the physiographic provinces of the United States, such as the Appalachian highlands, the Rocky Mountains, Alaska and the Hawaiian Islands. Prerequisite: GLY1010. (3 hour lecture)

GLY3884

Environmental Geology 3 credits

A study of the application of geology to the interactions between people and their physical environment. Earth materials and processes are presented in reference to hazards and concerns that are created naturally and/ or by human activities. The role of humans as geologic agents, resource conservation, ecosystem management, and the problems that result from upsetting the established equilibria of geologic systems are illustrated. Prerequisite: GLY 1010; corequisite: GLY 3380L. (3 hour lecture)

GLY3884L

Environmental Geology

Laboratory 1 credit

A laboratory course designed to accompany GLY3884 in the study of the major concepts and principles in Environmental Geology. It is designed for students enrolled in the baccalaureate degree program in science education with a major in earth science. (2 hour lab)

GIY4045

Moons, Planets & Meteors:

An Introduction to

Planetary Science 3 credits

An upper level course that explores both modern and historical views on the origins of meteorites, the moon, the planets and other bodies of the solar system. The importance of space science as a tool in the study of earth science and the importance of earth science as a tool in the exploration of the universe is discussed. (3 hour lecture)

German Language

GER1120

Elementary German 1 4 credits

An integrated (multi-media) approach to acquire proficiency in the basic skills of the German language (listening/understanding, speaking, reading, writing, and cross-cultural awareness). Emphasis on practical vocabulary and accurate pronunciation. Practice class and laboratory in understanding and using the spoken language; reading and writing with progressive grammatical explanations. (4 hour lecture)

GER1121

Elementary German 2 4 credits

A continuation of GER 1120. A proficiencyoriented course emphasizing the mastery of the basic skills of the language. Prerequisite: GER 1120. (4 hour lecture)

GER2201

Intermediate German 2 3 credits

Understanding, speaking, reading, writing and cross-cultural awareness, through a systematic review of reading and writing skills with emphasis on oral as well as written expression. Prerequisite: GER 2220. (3 hour lecture)

Intermediate German 1 4 credits

German culture learned through a systematic review of reading and writing skills with emphasis on oral as well as written presentation. Prerequisite: GER 1121 or equivalent. (4 hour lecture)



GER2240

Intermediate German

Conversation & Composition 1 3 credits Aids the student in attaining oral and written proficiency in German. Prerequisite: GER 2201 or equivalent (3 hour lecture)

GER2241

Intermediate German

Conversation & Composition 2 3 credits The course continues to develop effective oral and writing communication skills in the German language with emphasis on the German verb system and the use of idiomatic expressions in conversation and composition. (3 hour lecture)

Graphic Arts

CGS2833

Intranet/Extranet Creation 4 credits
This advanced course teaches students a
more comprehensive process of preparing
and implementing CGI scripts into Web pages.
Learn basic web scripting through decoding
forms, sending e-mail, and reading and writing files. Design a scripted Web page, write
the scripts, upload and run them. Debug
scripts. By the end of the course, students are
able to write their own guest books and surveys. Prerequisites: Graphic Interface Design
2. Special fee. (2 hour lecture; 4 hour lab)

GRA1111C

Graphic Design 1 4 credits

An introduction to basic theory and skill techniques of visual communications. Students learn to delineate natural and man-made objects (the structure of our environment) in proper visual relationship using pencil and paper. By solving basic visual communication problems involving perspective, proportion, and representative drawing, students develop the basic skills necessary for success in graphic communication. Prerequisites: Acceptable secondary school proficiency in arithmetic, reading and writing, as well as drawing ability (by portfolio) are desirable. Special fee. (2 hour lecture; 4 hour lab)

GRA1113C

Graphic Design 2 4 credits

Studio projects, in which the student creates graphic communication designs (ads, brochures, TV graphics, illustrations, etc.) using contemporary mediums, techniques and tools. Prerequisite: GRA 1111C. Special fee. (2 hour lecture; 4 hour lab)

GRA1141

Graphic Imaging 2 4 credits

Create and prepare dynamic graphics, SWF interactive movies, and QuickTime player video for the internet. Produce vector and pixel based professional web graphics to standards for distribution on or use on the Internet. Students are introduced to vector and pixel based applications used to produce animated images and movies for a controlled length of time. Students learn pre-planning, storyboarding, and production of dynamic

graphics with time based application. Use creative approaches to solve client requirements with interactivity. This is a required course for students in the graphic Internet technology degree. Recommended for publishing, Web design or advertising industry personnel who wish to produce vector and pixel based professional web graphics. Prerequisite: GRA 1752. Special fee. (2 hour lecture; 4 hour lab)

GRA1206C

Principles of Typography 4 credits

Printer's measurements and arithmetic, distinguishing typesetting from typography, type classification and identification, copy fitting, mark-up and vocabulary. Laboratory classes consist of computer typesetting machine operation, various typesetting projects and problems. Prerequisite: GRA 1330. Laboratory fee. (2 hour lecture; 4 hour lab)

GRA1210C

Offset Stripping,

Black and White 4 credits

Fundamentals of single color layout and stripping as used in offset lithography. Includes actual practice and instruction in the tools used in stripping, performing the various operations of laying out and stripping-up flats for single color plates. Prerequisite: GRA 1280C. Laboratory fee. (2 hour lecture; 4 hour lab)

GRA1280C

Introduction to

Digital Imaging 4 credits

Photographic theory and practice, including camera operation, developing, enlarging, printing, copying, scaling, the reproduction of line copy and the stripping-in processes used in lithography. Prerequisite: GRA 1330. Laboratory fee. (2 hour lecture; 4 hour lab)

GRA1330

Introduction to

Graphic Communications 3 credits
This course will introduce the graphic arts
and graphic design (commercial art) student
to the study of the history, basic manual
procedures and future technology of the
computer age in the graphic communications
industry. It is designed to offer participants an
overview of the entire printing process, from
start to finish. It is based on NAPL's Workbook
Graphic Arts Processes. It is recommended
for all students during the first year, first term.
(2 hour lecture; 2 hour lab)

GRA1403

Graphic Arts Estimating 1 3 credits

This course will introduce the graphic arts and graphic design (commercial art) student to the analysis of the economic principles involved in advertising production; kinds, sizes, uses, weights and finishes of paper, construction and use of plates; acquisition of materials and methods of binding. Students will learn the preplanning necessary in the reproduction of printing. Prerequisite: GRA 1422 (2 hour lecture; 2 hour lab)

GRA1750

Introduction to

Graphic Internet Technology 3 credits Introduce Internet architecture, addressing domain names, e-mail, Web browsers, and Internet safety and security. Surf the World Wide Web with four standard Web browsers, send and receive e-mail, download files with File Transfer Protocol, search for information using a number of different search engines, set up a Web page, and use HTML programming-including formatting, graphics, lists, forms, tables and backgrounds. Introduce the basic concepts of client/server computing. Examine components, technologies, and system standards involved in client/server computing. This course will also introduce students to the practices and procedures for planning Web sites. Students will learn to appreciate the aspects of a well-designed web site. Special fee. (2 hour lecture; 2 hour

GRA1751

Graphic Interface Design 1 4 credits

Basics of Web page design and Internet architecture. Introduces students to the design process and how it functions. Students will learn how to create for the World Wide Web with standard web creation applications add several elements from other graphic creation programs and combine those elements in an attractive and functional manner. This course will also expand students' concepts of the practices and procedures for planning Web sites. Prerequisites: GRA 1750, 2577C. Special fee. (2 hour lecture; 4 hour lab)

GRA1752

Graphic Imaging 1

Introduce students to the hardware and software necessary to produce static and animated images. Students are introduced to the use of digital cameras and scanners to produce images suitable for viewing on all computer platforms. Students are also introduced to creative and production aspects of digital imaging for image databases, GIF images, and vector based dynamic graphics. Required for students in the Graphic Internet Technology program. Recommended for publishing, web design or advertising industry personnel who wish an introduction to Internet Imaging. Prerequisites: GRA 1750, 2577C. Special fee. (2 hour lecture; 4 hour lab)

4 credits

GRA1754

Graphic Interface Design 2 4 credits

Introduce a comprehensive process of Web Page Design and Internet Architecture. Continue to teach students the design process and how it functions. Students will learn how to create complex commercial sites for the World Wide Web with a standard Web creation application and an image editing application and combine those elements in an attractive and functional manner. This course will also expand students' concepts of the practices and procedures for planning elaborate Web sites. Prerequisites: GRA 1751, GRA 1752. Special fee. (2 hour lecture: 4 hour lab)

MDC 2008-10 CATALOG

177

4 credits

GRA1949 Co-op Work

Experience 1: GRA 3 credits

This is a course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

GRA2117C

Computer Assisted

Graphic Design 4 credits

One of the most exciting aspects of electronic publishing is the ability to create and manipulate full color graphic illustrations. Students will receive training on Adobe Illustrator and Aldus Freehand, two encapsulated PostScript illustration programs which are standard in the industry. Class lectures will be supported with extensive handouts and audiovisual presentations. Lab classes consist of a series of full color projects designed to highlight the features of each program. Prerequisite GRA 2203C. Special fee. (4 hour lecture)

GRA2121C

Professional Desktop

Publishing Media 4 credits Professional Desktop Publishing Media is an advanced course in electronic publishing for professionals in the printing and publishing industry who need to update or renew occupational skills and for advanced graphic design students. Instructions include microcomputer based applications that allow users to design, layout, illustrate, and typeset publications, advertisements, overhead transparencies and commercial electronic artwork. Students will work with a standard page layout program and will learn electronic graphic design techniques and publishing requirements for full color high resolution output. Prerequisite: GRA 1330. Laboratory fee. (2 hour lecture; 4 hour lab)

GRA2151C Digital Graphic

Painting 4 credits

Students, working from photographs, represent the natural world on the newest artistic media: the personal computer. Fractal Design's Painter software enables students to use a wide variety of digital tools and surfaces to create electronic illustrations. The software includes tools that simulate the techniques of impressionist, pointillist, and photo-realist artists, as well as those of Van Gogh and Seurat. The course will benefit creative and pee changing every day because of advancement in technology as well as improving the employability of graphic arts technology and graphic design technology majors. Lab classes consist of projects designed to highlight the features of software programs. Prerequisite: GRA 2577C. (2 hour lecture; 4 hour lab)

GRA2160C

3D Computer

Animation 1 4 credits Students will learn fundamentals of building computer based 3D models for film, TV, and video gaming applications. Students will also learn technical and conceptual skills that will enable them to creatively express and develop their personal ideas and feelings. The students will also acquire a fundamental understanding of 3D modeling. Prerequisite: ART 2600C or GRA 2577C or VIC 1202C. (2 hour lecture; 4 hour lab)

GRA2169C

3D Computer

Animation 2 4 credits
Students will learn fundamental skills of
animation and animating 3D computer generated models for film, TV, and video gaming
applications, using the MAYA animation software. Students will also learn to implement
basic dynamic effects along with modeling, texturing and lighting. Prerequisite: GRA
2160C. Laboratory fee. (2 hour lecture; 2 hour

GRA2190C

lab)

Communications

Design 1 3-4 variable credits Problems in advertising design involving layout, lettering, current studio media, and reproduction processes. Prerequisites: ART 1202C or 1300C. (1-2 hour lecture; 4 hour lab)

GRA2191C

Communications

Design 2 3-4 variable credits Advanced problems in commercial art concentrating on layout, mechanical art for reproduction and illustration technique. Prerequisite: GRA 2190C. (1-2 hour lecture; 4 hour lab)

GRA2203C

Advanced Electronic

Publishing 4 credits

QuarkXPress is a high-end electronic program whose features include extremely tight typographic and photographic controls. These features make QuarkXPress a program well suited for catalogs and magazine layouts. Students in this class will learn to operate QuarkXPress efficiently. Class lectures are supported with extensive handouts and audio visual presentations. Lab classes consist of a series of catalog and publication jobs which are designed to highlight the features of this program. Prerequisite: GRA 1330. Special fee. (2 hour lecture; 4 hour lab)

GRA2207C

Advanced Electronic Photoshop

Photoshop 4 credits
This advanced course will introduce graphic arts students to integrate black and white color photography into their page layout or paint program. Students will learn the requirements of desktop drum and flatbed scanning, retouching, color correcting, preproofing, correcting again and output to laser

printers, color printers, and image setters.

Prerequisites: GRA 2577C. Special fee. (2 hour lecture; 4 hour lab)

GRA2304C

Color Reproduction Technology 1

The theory and fundamentals of color and light as applied to photomechanical processes. Instruction will emphasize synthesis of additive and subtractive color, densitometry, use of panchromatic continuous-tone materials and introduction of correction requirements. Corequisite: GRA 1280C. (3 hour lecture)

GRA2305C

Color Reproduction

Technology 2 3 credits

Color separations with emphasis on methods commonly practiced. Includes calculating and predicting correction-factors, quality controls, and proofing methods. Students will be introduced to electronic color scanning and the current state of the science. Laboratory fee. (2 hour lecture; 2 hour lab)

GRA2310C

Offset Presswork 1 4 credits

The principles of offset presswork, including the operation of duplicating machines (Multilith, A.B. Dick, Chief 15, MGD and Davidson), setting up and operating the presses, troubleshooting, simple maintenance and safety precautions. Prerequisite: GRA 1210C. Laboratory fee. (2 hour lecture; 4 hour lab)

GRA2312C

Offset Presswork 2 4 credits

Operation of the offset press (Harris LXD): a study of each unit of the machine gauges and instruments used in conjunction with the offset press, setting up and operating the press troubleshooting, safety and simple maintenance. Prerequisite: GRA 2310C. Laboratory fee. (2 hour lecture; 4 hour lab)

GRA2404C

Graphic Arts Estimating 2 3 credits

This advanced course will introduce graphic design (commercial art) students to the process of figuring out the cost of a job that they have produced. They will figure what the shop rate is for each area of production. It will also involve the use of a computerized estimating software program. Prerequisite: GRA 2545C. (2 hour lecture; 2 hour lab)

GRA2545C

Advanced Graphic Design 1 4 credits Practical problems in graphic communications with emphasis on producing layouts and comprehensives in black and white and color to contemporary industry standards. Prerequisite: GRA 1113C. Special fee. (2 hour lecture; 4 hour lab)

GRA2546C

Graphic Design 4 4 credits

Work necessary for the production of a typical graphic brochure including copy illustrations, thumbnails, roughs, comprehensive, mechanical camera, and stripping. Prerequisite: GRA 2545C. Laboratory fee. (2 hour lecture; 4 hour lab)



GRA2577C

Electronic Photoshop 4 credits

This course is designed for the experienced electronic publisher, graphic designer or graphic arts person who wishes to integrate black and white and color photography into their page layout or paint programs. It is also suggested for graphic art, graphic design, and photography majors at MDC. Students will learn the basics of desk top scanning, retouching, color correcting, pre-proofing, correcting again, and output to laser printers, color printers, and image setters. Corequisite: GRA 1280C. Laboratory fee. (2 hour lecture; 4 hour lab)

GRA2727

Streaming Media Creation 4 credits Create, edit, and stream digital media from a server for distribution on the Internet. Provides a logical organization for understanding the benefits and limitations of streaming media. Enable students to use digital media cameras, digital media editing programs to produce creative presentations or portfolios for streaming distribution on the Internet. Students will learn the basic concepts of streaming media such as: how to prepare media for various bandwidths, how and when to use transitions, how to prepare titles, how to prepare superimposing, how to prepare audio and how to edit. Required for graphic Internet technology degree. Recommended for publishing, web design or advertising industry personnel who wish to produce streaming media. Prerequisite: GRA 1141. Special fee. (2 hour lecture; 4 hour lab)

GRA2755

Graphic Interface Design 3 4 credits This advanced course teaches students a more comprehensive process of preparing and implementing CGI scripts into web pages. This is an advanced design and development course, which teaches the creation of Active Server Pages using an application that quickly deploys database-driven e-commerce applications. Using a drag-and-drop interface and sophisticated wizards, the student builds web-based applications that access and update data in real-time while working across all major browsers. Create safe, fully customizable online stores that are scaleable and simple to maintain. Develop stores quickly using built-in tax and shipping calculations, sophisticated merchandising options for including discount and fee calculations, and automatic order confirmations. Prerequisite: GRA 1754. Special fee. (2 hour lecture; 4 hour lab)

GRA2756

Alternate Media Creation 4 credits

Prepare electronic documents for conversion for use on the Internet or for use in multimedia projects. Understand Portable Document Format (PDF) as the de-facto standard for electronic documents. Learn how PDF files can be published and distributed anywhere: in print, attached to e-mail, on corporate or Intranet servers, posted on Web sites, or on CD-ROM. Learn how PDF files can be shared, viewed, navigated, and printed exactly as intended by any PDF. Learn navigational structures, creating, editing, and distributing documents, as well as building searchable Portable Document Format Libraries. Introduce students to the hardware and software necessary to produce PDFs for distribution or use on the Internet. Introduce creative and production aspects of PDF. Required for students in the Graphic Internet Tech degree. Recommended for publishing web design or advertising industry personnel who wish a comprehensive course on PDF Perequisites: GRA 1141, 2577C. Special fee. (2 hour lecture; 4 hour lab)

GRA2765C

3D Computer Animation 3 4 credits This is an advanced course in which students will define their skills in animating 3D computer generated models for Film, TV, and Video Gaming applications, using the MAYA animation software. Students will learn to implement basic compositing effects along with creating photo realistic renderings. Prerequisite: GRA 2169C. (2 hour lecture; 4 hour lab)

GRA2811C

Applied

Illustration 1 3-4 variable credits Exploration of fundamentals of composition, design and rendering in illustration. Development of skills in illustration techniques including pen and ink, opaque water color and combined mediums. Study of the creative processes applied to producing illustrations for the professional market. Prerequisites: ART 1201C, 1330C. (1-2 hour lecture; 4 hour lab)

GRA2949 Co-op Work

Experience 2: GRA 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-Op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

Haitian Language

HAI2340

Haitian-Creole for Native Speakers 1

3 credits

Writing spelling and punctuation, sentencestructure and vocabulary expansion as they are relevant to the training of native speakers of Haitian Creole. Conducted entirely in Haitian-Creole Prerequisite: Fluency in Haitian-Creole as determined by the Haitian-Creole placement exam. (3 hour lecture)

HAI2341

Haitian-Creole for

Native Speakers 2 3 cred

A continuation of HAI 2340. Emphasizes fluency in Haitian-Creole grammar and writ-

ing. Recommended for translation/interpretation students or native speakers wishing to improve their knowledge of written Haitian-Creole. Conducted entirely in Haitian-Creole as determined by the Haitian-Creole placement exam or HAI 2340. (3 hour lecture)

HAI2720

Contrastive Analysis:

Haitian/Creole 3 credits

This course compares/contrasts linguistic features and characteristics of both the English and Haitian/Creole languages. Aspects of comparison/contrast include historical backgrounds, phonological systems, morphological systems, syntax, and semantics. Prerequisite: Adequate fluency in Haitian-Creole (determined by department Haitian-Creole exam) and English (determined by CPT) (3 hour lecture)

HCW2020

Selected Readings

in Haitian-Creole Literature 3 3 credits This course will emphasize reading and analyzing Haitian-Creole literature in a historical context. A variety of literature will be read and discussed in order to gain an understanding of Haitian-Creole and Haitian culture, the history of Haiti, and ways which the literature portrays the country of Haiti and its inhabitants. Prerequisite: Fluency in Haitian-Creole as determined by the Haitian-Creole placement exam. (3 hour lecture)

Health Information Management

HIM1000

Introduction to Health

Information Management 2 credits
The role and functions of a health information technician. Health information is essential to our health care delivery system. The

tial to our health care delivery system. The medical record, in manual or automated form, houses the health information that describes all aspects of patient care. The structure, organization, and maintenance of the medical record are discussed. The organization and mission of the American Health Information Management Association are explored. The student also learns the organization and function of various types of health care facilities and the responsibilities of national, state and local health agencies. (2 hour lecture)

HIM1110

Health Information

Management Data Collection 2 credits
The basic functions of a health information
department and the roles and responsibilities
of each of the operational units. The student
will learn the various numbering and filling systems and how systems and how to
analyze the medical record for completeness
and accuracy. The components of the various
indices and registers and their importance
are explored. Prerequisite: HIM 1000, 2472;
corequisite: HIM 1110L. (2 hour lecture)

0**0** 2008-10 CATALOG

HIM1110L Health Information Management Data Collection Lab

3 credits

The application of the minimum basic requirements for health records imposed by regulatory agencies. How health information systems contribute to the health record as a communicative document will be explored. Concepts relating to confidentiality, ethics, and release of information will be applied. Corequisite: HIM 1110. Laboratory fee. (6 hour lab)

HIM1300

Health Care

Facilities/Delivery Systems 2 credits
Organization and function of various types
of health facilities, accreditation standards,
Medicare law, and the American health delivery system. (2 hour lecture)

HIM1800

Health Information

Management

Directed Practice 1 2 credits

Supervised clinical practice in a health care setting. The students will apply the minimum basic requirements for health records imposed by regulatory agencies as well as standard practices relating to confidentiality, ethics, and release of information will be applied. Corequisite: HIM 1110L. (6 hour lab/clinic)

HIM2012

Legal Aspects of Health Care 2 credits
Court system of the United States of America
and the interconnection between the health
care system and the federal government.
Policies and procedures regarding confidentiality of patient information and the handling of health records and health care data

and record retention periods are identified. (2 hour lecture)

HIM2211C

Health Information

Technologies 2 credits

This course will enable students to apply knowledge of computer technology to health information management. The student will gain experience with a variety of applications used to maintain health care records. Prerequisites: HIM 2500, 2500L. (1 hour lecture; 2 hour lab)

HIM2214C

Health Statistics 2 credits

This course will focus on the definitions for analysis, interpretation, and display of health-care data. The student will learn the acceptable terminology and basic definitions for reporting health statistics. Emphasis is placed on the use of the formulas necessary for computing standard rates, percentages, and averages from patient data. Prerequisites: HIM 1110, 1110I.; corequisite: HIM 2512C (1 hour lecture; 2 hour lab)

HIM2222

Basic ICD-9-CM Coding 2 credits

Disease and operation classification, using the International Classification of Diseases, 9th Revision, Clinical Modification, (ICD-9-CM) and indexing systems. This course is designed to teach basic concepts and coding principles. The student is introduced to Diagnosis Related Groups (DRGs) and their relationship to coding. The historical development of the International Classification of Disease and the various nomenclatures and classification systems are also included. The student learns to differentiate between the various abstracting methods used to collect patient data. Procedures and controls used in a health information department to ensure data quality is discussed. Prerequisites: BSC 2086, 2086L; corequisite: HIM 2222L. (2 hour lecture)

HIM2222L

Basic ICD-9-CM

Coding Laboratory 3 credits
Translation of diagnoses and operations
into numerical designations (codes) utilizing the International Classification
of Diseases, 9th Revision, Clinical
Modification (ICD-9-CM). Automated coding using the computer and encoding
software is performed. Abstracting and
indexing are practiced. Prerequisite: HIM
2222. Laboratory fee. (6 hour lab)

HIM2234

Advanced ICD-9-CM

Coding

Coding

Coding

Coding

Coding

Code assignment and procedural terminology, and pharmacology applied for correct code assignment and sequencing using the ICD-9-CM coding system. Approved coding guidelines in Coding Clinic for ICD-9-CM and current reimbursement and case mix considerations are emphasized. Prerequisite: HIM 2222; corequisite: HIM 2234L. (2 hour

HIM2234L

Advanced ICD-9-CM

Coding Laboratory

Application of anatomy, the clinical disease process, diagnosis and procedural terminology, and pharmacology in ICD-9-CM coding. Emphasis is placed on the reading and interpretation of health care documentation to identify the correct codes and sequence them accurately using current guidelines. Prerequisite: HIM 2222L; corequisite: HIM 2234. Laboratory fee. (2 hour lab)

HIM2253C

Current Procedural Terminology/CPT-4

Coding and reporting diagnostic and therapeutic procedures in the ambulatory care setting. Students learn to read and interpret ambulatory health care documentation to classify services and procedures in CPT. Emphasis is placed on the interrelationship between providing health care services to patients and receiving payment for those services. Ambulatory patient groups (APGs) case mix classification system is discussed. (1 hour lecture; 2 hour lab)

HIM2270C

Health Insurance

Billing & Reimbursement 2 credits
The health insurance billing process and
the use of the HCFA-1500 and UB-92 claim
forms. The concepts and methodologies of

the use of the HCFA-1500 and UB-92 claim forms. The concepts and methodologies of third party payers with focus on Medicare, Medicaid, Blue Cross/ Blue shield, commercial insurance, Worker's compensations and self-pay. The impact of the Prospective Payment System on reimbursement to the health care facility and the interrelationship of coding, Diagnostic Related Groups (DRGs), Ambulatory Patient Classifications (APCs) and health care providers are explored. Prerequisites: HIM 2234, HIM 2234L. (2 hour lecture)

HIM2400C

Division of

Non-Hospital Health Records 2 credits
Management of health information systems
in the non-acute care setting. This course
places emphasis on record-keeping practices
in the non-acute care setting. The student
will learn the documentation requirements
based on Federal and State statutes, accreditation standards, and Medicare Conditions of
Participation. Health information professionals must take an active role in the development of quality records and information
management procedures in non-acute care
facilities. (1 hour lecture; 2 hour lab)

HIM2430

Basic Principles of Disease 1 2 credits Disease, its etiology, and pathophysiologic nature. Medical complications and manifestations of disease states also included. Prerequisite: BSC 2085, 2085L, 2086, 2086L. A.S. degree credit only. (2 hour lecture)

HIM2431

1 credit

2 credits

Basic Principles

of Disease 2 2 credits

The most common diagnoses encountered in each major body system and the laboratory or other diagnostic tests used to confirm or rule out those diagnoses current pharmacological treatments are explored. Prerequisite: HIM 2430. (2 hour lecture)

HIM2472

Medical Terminology 3 credits
Analysis of medical terms through learning
basic roots, prefixes and suffixes permitting
the student to have a working knowledge
of the language of medicine. Prerequisite:

of the language of medicine. Prerequisite: Permission of department chairperson. A.S. degree credit only. (3 hour lecture)

HIM2500

Data Management & Quality Assessment

The basic principles of quality assessment: quality improvement and utilization review. The accreditation process, risk management, managed care models and the methodological process.

2 credits

The accreditation process, risk management, managed care models, and the methodologies and relationships of these key areas within a health care facility are emphasized. Prerequisites: HIM 1110, 1110L; Corequisite: HIM 2500L. (2 hour lecture)



HIM2500L

Data Management & Quality Assessment Laboratory 1 credit

The application of the basic principles of quality assessment: quality improvement and utilization review. The student will learn to generate models for the evaluation of different types of medical care. Activities will center on the accreditation process, managed care, and risk management. The methodologies and relationships of these key areas within a health care facility are emphasized. Prerequisites: HIM 1110, 1110L; corequisite: HIM 2500. (2 hour lab)

HIM2512C Supervision & Organization for Health Information

Management 2 credits This course will review the basic principles of management and organizational life in a health information management department and the interrelationships within the health care organization. Emphasis will be placed on the supervisory role of the health information professional, including basic motivation and communication principles essential to the practice of health information management. The student will identify and use specific motivational and communication techniques in health information supervision. Prerequisites: HIM 1110, 1110L; corequisites: HIM2500, 2500L, 2810. (1 hour lecture; 2 hour lab)

HIM2810

Health Information Management Directed Practice 2 2 credits

A supervised clinical practice in a health care setting. The student will perform coding of patient health records utilizing the International Classification of Disease, 9th Revision, Clinical Modification (ICD-9-CM). Automated coding using the computer and encoding software is performed. Prerequisites: HIM 1110, 1110L; corequisite: HIM 2500L, 2512C. (6 hour lab/clinic)

HIM2820

Health Information Management Directed Practice 3 2 credits

A Supervised clinical practice in a health care setting. The student will experience the use of specific motivational and communication techniques in health information supervision and the development of systems to meet the data needs of acute and ambulatory health care facilities. Applications in the use of basic health care definitions and data collection, analysis and display are explored. Prerequisite: HIM 2820; corequisite: HIM 2512C. Special fee. (6 hour lab/clinic)

Health Science

HSC1121

Exploration of Alternative Medicine & Complementary Therapies 3 credits This is a survey course which will focus on the indications and contraindications of alter-

native medicine, the effects of these practices in daily life, and the role these therapies have as a compliment to traditional medical treatments. (3 hour lecture)

HSC1400

Cardiopulmonary Resuscitation 1 credit Designed to teach the skills necessary for

emergency care in cases of airway blockage respiratory and/or cardiac arrest. This course meets the American Red Cross certification requirements in Basic Life Saving Cardiopulmonary Resuscitation. (2 hour lab)

HSC2100

Health Education 3 credits

Designed to provide an orientation to the aspects of personal and community health while presenting a concept of wellness for healthful living. This course examines the current health trends relating to today's society. (3 hour lecture)

HSC2400

Basic Emergency Care 3 credits

Designed to provide opportunities to develop, practice, and display skills concerning emergency care and the prevention of accidents. This course meets the American Heart Association Healthcare Provider Cardiopulmonary Resuscitation/automated External Defibrillation and the American Red Cross for Standard First Aid Certification requirement. Special fee. (3 hour lecture)

HSC2404

Instructor's Training First Aid & CPR 3 credits

Designed to improve the performance skills, techniques, and knowledge as well as develop competent teaching skills in First Aid and cardiopulmonary resuscitation. This course meets the American Red Cross Instructor Certification Requirements for Standard First Aid and Personal Safety and Basic Life Saving Cardiopulmonary Resuscitation. Special fee. Prerequisite: HSC 2400 or certification in American Red Cross Standard First Aid and Personal Safety and Basic Life Saving Cardiopulmonary Resuscitation. May be repeated for credit. (2 hour lecture; 2 hour lab)

HSC2532

Medical Terminology

and Procedures 4 credits
Expansion of medical vocabulary to include:

Expansion of medical vocabulary to include: pharmacology, procedures, neoplasm's, psychiatric and medical complications. HIM 2472.A.S. degree credit only. (4 hour lecture)

HSC2560

Patient Care Management 6 credits

Specific standards as they relate to patient care. Areas include: care plans; subacute management; quality assurance; patient safety systems; coordination of department such as dietary, pharmacy, and nursing as they relate to the treatment and care of the patient; staff development; and federal, state, and local requirements. Prerequisite: HIM 2472. (6 hour lecture)

Hebrew Language

HBR1120

Elementary Hebrew 1 4 credits

An integrated (multi-media) approach to acquire proficiency in the basic skills of the Hebrew language (listening/understanding, speaking, reading, writing and cross-cultural awareness). Emphasis on practical vocabulary and accurate pronunciation. Practice in class and laboratory in understanding and using the spoken language; reading and writing with progressive grammatical explanations. (4 hour lecture)

HBR1121

Elementary Hebrew 2 4 credits

A continuation of HBR 1120. A proficiencyoriented course emphasizing the mastery of the basic skills of the language. Prerequisite: HBR 1120. (4 hour lecture)

History

AFH2000

African History and Culture

d Culture 3 credits

Historical survey of the development of African society, its culture and institutions, with emphasis on the 13th century to the present. (3 hour lecture)

AMH2010

History of

the US to 1877 3 credits The founding, growth, and development

The founding, growth, and development of the United States from the colonial era through 1877. (3 hour lecture)

AMH2020

History of

the US since 1877

3 credits

A survey of social, economic and political developments in the United States Since 1877. (3 hour lecture)

AMH2035

Recent American

History-Since 1945

The internal development of the United States and the role of the U.S. in world affairs

since World War II. (3 hour lecture)

AMH2070

Florida History

3 credits

3 credits

Florida from the Spanish period to the present with emphasis on the modern development of natural resources, urbanization, industry, culture and tourism. (3 hour lecture)

AMH2079

History of

South Florida 3 credits

A study of the history of South Florida (Lake Okeechobee south to Key West), including geological foundations exploration, settlement and contemporary cultural trends. (3 hour lecture)

MDC 2008-10 CATALOG

AMH2091

Afro-American History 3 credits
A survey, including the African background,
of the Afro-American in United States history,
with emphasis on their economic, political
and cultural development. (3 hour lecture)

EUH2022

Medieval Europe 2 3 credits A survey of the formative period of European

A survey of the formative period of European Civilization with emphasis on intellectual and institutional developments such as the Byzantine and Islamic Civilization, the evolution of feudal society, the Crusades, Scholasticism, Romanesque and Gothic art forms, etc. Covers the transition from the Roman Empire, the Barbarian and Carolingian background up to the age of European discovery and exploration. (3 hour lecture)

EUH2030

Contemporary Europe 1 3 credits

This course examines the major social, economic, political and diplomatic development of European History since 1870. Special emphasis is placed on the pre-and post-war internal political structures of the major European States: the evolution of the various working class movements, communism, fascism, the great international crisis inside Europe, the two world wars and the two subsequent reorganizations of the Continent, the cold war, decolonization and the emergence of a new order. (3 hour lecture)

EUH2032

History of the Holocaust 3 credits

This is a foundation course in Holocaust Studies. Students will learn the historical origins, execution, and consequences of the Holocaust. This course also examines the Holocaust's place in context of genocides past and present. (3 hour lecture)

EUH2051

History of Spain 2 3 credits

History of Spain as embodied in its literary artistic and social traditions. Major political, economic and social forces in the nation's evolution before the 17th century. (3 hour lecture)

EUH2068 History of

Russia from 1917

Survey of Russian history since 1917. Emphasis is given to the nature and causes of the 1917 revolution and the impact of communist ideology on the development of the U.S.S.R. and on its relations with the rest of the world. (3 hour lecture)

EUH2072

French Civilization in the 16th, 17th, & 18th

Centuries 1 3 credits
French society as reflected in the history,
arts and social background from the Middle
Ages to the Enlightenment and the French
Revolution. Emphasis is given to religious,
literary, artistic, social and philosophical factors. The heritages of antiquity and the Middle

Ages are studied briefly as an introduction. (3 hour lecture)

EUH2073

French Civilization

in the 16th, 17th, & 18th

Centuries 2 3 credits

French society as reflected in the history, arts and social background from the Middle Ages to the Enlightenment and the French Revolution. Emphasis is given to religious, literary, artistic, social and philosophical factors. The heritages of antiquity and the Middle Ages are studied briefly as an introduction. (3 hour lecture)

LAH2021

Colonial Latin America

3 credits

Emphasis is initially given to the geography of Latin American and to the Indian civilizations of that region. The focus then shifts to the Iberian states as colonizing powers and finally to the social and economic institutions of the colonial period including the Wars of Independence to 1825. (3 hour lecture)

LAH2022

Latin American

Republics 3 credits

Focus is on the national development of the Latin American republics since 1825, especially the internal problems of these nations, their role in the Pan American movement, and the role of Latin America in world affairs. (3 hour lecture)

LAH2025

History of Cuba 3 credits

Historical analysis of the development of Cuban society, its culture and institutions. (3 hour lecture)

SPA2930

Selective Studies 3 credits

Students will explore the various forms of literature found in American Sign Language (ASL). Through video, DVD and live performances of the genres of ASL literature will be identified and examined. The historical, psychological and cultural aspects of the "deaf experience" will be identified and analyzed and subsequently correlated with the development of the various genres of ASL literature. (3 hour lecture)

WOH2012

3 credits

History of

World Civilization to 1715 3 credits World civilizations from the prehistoric period to the 18th century, with emphasis on cultural history. (3 hour lecture)

WOH2022

History of

World Civilization from 1715 3 credits Modern-world civilizations, emphasizing those which have had or are having a particularly strong impact upon the culture, problems and international relations of the United States. (3 hour lecture)

Hospitality Management

HFT1000

Introduction to

Hospitality Management 3 credits Provides a basic understanding of the lodging and food service industry by tracing the industry's growth and development, reviewing the organization of hotel and food and beverage operations, and by focusing on industry opportunities and future trends. (3 hour lecture)

HFT1210

Human Relations

and Supervisory Development 3 credits Provides information relating to the recruitment and selection of new staff, the handling of difficult employees, motivating employees and conducting performance evaluations. (3 hour lecture)

HFT1212

Safety and

Sanitation 3 credits

The student will relate the principles and practices of safety and sanitation to the hospitality industry. Major topics are scientific rationales for safety and sanitation procedures, safe facilities, causes of food borne illnesses and preventive measures, sanitation practices, and safety regulations. Special fee. (3 hour lecture)

HFT1220

Communication/Supervisory

Development 3 credits

Explains the development and implementation of communication skills and group interaction techniques involved in basic interpersonal relationship in the hospitality industry. (3 hour lecture)

HFT1300

Supervisory Housekeeping 3 credits Provides an overview of the fundamentals of housekeeping management. This course describes the management functions, tools and practices required in today's lodging and institutional housekeeping departments. (3 hour lecture)

HFT1441

Point of Service 1 credit

Provides the student with the opportunity to acquire knowledge of and use the MICROS× Point of Sales as a valuable and accurate tool to control the complete operation of hotels and restaurants. Students will gain knowledge and hands on experience from the initial ordering process to the final server's activity on the floor, as well as knowledge of the related hardware and software. Cost controls, labor cost, inventories, payroll, and system maintenance for optimal performance will be analyzed in depth. Special fee. (1 hour lecture)



HFT1609 Responsi Vendor

Responsible Beverage

Introduces students to the responsibilities and liabilities incurred by establishments and individuals who serve alcoholic beverages and to the local state of Florida, and federal regulations related to the sale and consumption of alcoholic beverages. Students will gain knowledge of the effects of alcohol and how to evaluate guests while avoiding difficult situations. Prerequisite: HFT 1000. Special fee. (1 hour lecture)

HFT1631

Risk Management

and Security 3 credits

Provides the opportunity to examine issues surrounding the need for individualized security and surveillance programs, risk management and review systems. The student will examine a wide variety of security and safety equipment procedures and discuss guest protection, internal security for asset protection, and OSHA regulations that apply to lodging properties. (3 hour lecture)

HFT1841

Dining Room Service 3 credits

Provides students with the opportunity to acquire knowledge of advanced service techniques, including guest satisfaction, food, wine and beverage serving, types of menus, table service techniques, tableside cooking, napkin folding, table setting, safety, sanitation, emergency procedures, restaurant technology, and service styles. Students will gain experience in cash and non-cash handling, forecasting sales, and merchandising techniques. Corequisite: HFT 1000. (3 hour lecture)

HFT1841L Dining Room

Service Laboratory 1 credit

Supplements the classroom theory portion of Dining Room Service HFT 1841 by having students create, plan, develop and participate in an actual dining room service experience. The student will work in tandem with industry professionals, faculty, and other students to outline, design, and bring to fruition an event. The student will become certified in ServSafe prior to the culmination of the event, so as to be in compliance with State mandated statue 509.039. Corequisite: HFT 1841. Special fee. (2 hour lab)

HFT1852

Menu and Facilities Planning 3 credits Provides students with the opportunity to

Provides students with the opportunity to engage in basic menu planning and how it is affected by demographics and customer base. Emphasis on cost concepts, pricing, menus, restaurant and kitchen design, space allocation, ergonomics, and safety and sanitation. Corequisite: HFT 1000. (3 hour lecture)

HFT2223

Training/Supervisory

Development 3 3 credits

Considers the assessment and analysis of training needs, the systematic design of instruc-

tion, the evaluation of training programs, and management of the training programs, and management of the training function. (3 hour lecture)

HFT2241

1 credit

Leadership and Quality

Assurance Management 3 credits
Provides an analysis of management issues
related to the "personal touch" in customer
service and quality assurance in the hospi-

service and quality assurance in the hospitality industry. Emphasis is placed on the importance of contemporary management and business practices to keep up with the demands of an ever-changing industry. (3 hour lecture)

HFT2252

Rooms Division Management 3 credits

Provides students with the opportunity to acquire knowledge of the practices and systems utilized in the operational management of a lodging facility. Emphasis is on the aspects of the front office, reservations, accounting and inventory controls, franchising agreements, sales and marketing, food and beverage service, security, loss prevention, and housekeeping services in hotels and motels. Corequisite: HFT 1000. (3 hour lecture)

HFT2260

Restaurant Management 3 credits

Familiarizes students with the general principles of food production management, work scheduling, and preparation supervision. Emphasis is placed on purchasing and financing, planning and equipping a kitchen, pricing and menu design, and marketing and promoting restaurants. Prerequisite: HFT 1000. (3 hour lecture)

HFT2410

Hotel Front

Office Procedures 4 credits

An analysis of various jobs in the hotel/motel front office and procedures involved in reservations, registering and checking out guests. Accounting procedures and the operation of the NCR 4200, NCR 2250, and the NCR 2251 hotel posting machines. Prerequisites: ACG 2001, HFT 1000 and a minimum of a C average. (3 hour lecture; 2 hour lab)

HFT2421

Managerial Accounting

for Hospitality 3 credits
Presents managerial accounting concepts and

resents manageria accounting concepts and explains how they apply to specific operations within the hospitality industry. (3 hour lecture)

HFT2444

E-Business for

the Hospitality Industry 3 credits

Prepares student to manage information systems within their organizations. Emphasis is on selecting the right computer systems technology and maximizing available technology in order to promote and sell services. Introduces the use of automation in the broad hospitality sector and exams techno-

logical applications ranging from distribution systems (GDS, CRS and Web based), Property Management Systems, and EPOS systems to developments in telecommunications, and assesses their effect on the tourism sector. While a broad interpretation of both technology and tourism will be used, particular emphasis will be placed on the hospitality sector (i.e. hotels and catering) and on distribution technology. A combination of lecture, case studies, seminars, visiting lecture and lab sessions are used. Prerequisite: HFT 1000. (3 hour lecture)

HFT2500

Marketing of

Hospitality Service

Provides students with basic knowledge and practical experience which will enable them to develop strategic marketing plans for hotel/motel properties. (3 hour lecture)

3 credits

HFT2501

Hotel/Motel Sales

and Promotions 3 credits

Presents a practical understanding of the operating statement and precisely where, how, and why the sales effort fits into the total earnings and profit picture of a hospitality operation. Emphasis is on producing business at a profit. (3 hour lecture)

HFT2750

Convention Service

and Management 3 credits

Introduces students to the complete set of skills necessary to adequately perform as a hotel banquet manager and convention planner. Actual events will be used to reinforce the general rules of table service, booking functions, staffing banquets/conventions, and responsibilities of a host venue as they apply to buffets and banquets. Prepares students in trade show administration, meeting management, and legal issues associated with banquets and conventions. Prerequisite: HFT 1000. (3 hour lecture)

HFT2772

Introduction to

Cruise Line Industry 3 credits

Provides students with an introduction to the cruise line industry, its evolution and relationship to other segments of tourism and hospitality, sales and marketing methods, management, and strategic planning are major topics. Corequisite: HFT 1000 (3 hour lecture)

HFT2773

Cruise Line

Sales and Marketing 3 credits

Provides an introduction to the sales and marketing functions of the cruise industry. Students will gain an understanding of how cruises lines position themselves in the competitive business environment and the sales and marketing techniques used to attract customers and group business. Students will gain an understanding of yield management and the issues surrounding travel agents during the sales process. Prerequisites: HFT 2772 (3 hour lecture)

0**0** 2008-10 CATALOG

HFT2774

Shipboard Operations 3 credits

Provides an understanding of shipboard operations on cruise ship and their relationship to the shore side headquarter office. Students will gain knowledge of the history of cruise ships and the activities and facilities that make cruise line operations complementary both to the industry and the guest. This course will focus on the ship as a hotel for passengers with the wining and dining aspects of service, as well as, casino practices on board. Prerequisite: HFT 2775. (3 hour lecture)

HFT2775

Shore side Operations 3 credits

Provides a basic understanding of the shore side office operations and sales procedures of cruise line and how they relate to the general operations of the cruise ship itself. Students will acquire knowledge of pier, airport, ground services and hotel operations and create elements for cruise lines sales. Prerequisite: HFT 2772 (3 hour lecture)

HFT2800 Food and

Beverage Management 3 credits

Provides a basic understanding of the principles of food production and service management, menu planning, serving, purchasing, labor, food/bar service and costs, storage, beverage management, sales promotions, entertainment, and liability laws. (3 hour lecture)

HFT2801

Food & Beverage Service

3 credits Provides the practical skills and knowledge for effective management of food and bev-

erage service in outlets ranging from cafeterias and coffee shops to room service, banquet areas and high-check average dining rooms. Presents basic service principles while emphasizing special needs of guests. (3 hour lecture)

Human Services

HUS1001

Introduction to

3 credits

Human Services An introduction to an overview of the field of Human Services, including the role of the human services worker as it relates to various agencies, counseling, interviewing and managing. (3 hour lecture)

HUS1302

Basic Counseling Skills 3 credits

Development of the skills of observation, recording, reporting, interviewing and counseling. These skills are presented in the context of general counseling theory. (3 hour lecture)

HUS1318

Domestic Abuse

and Family Violence 3 credits

This course is designed to educate human services workers for the evaluation, counseling and outreach skills necessary for working with victims of domestic violence. The dynamics of partner violence, child abuse, and elder abuse will all be explored. (3 hour lecture)

HUS1421

Assessment and Treatment **Planning in Addictions** 3 credits

This course is designed to familiarize students with the core functions of Assessment and Treatment Planning for the chemically dependant client. Emphasis on treatment planning will be accomplished drawing from the Florida Certification Board for addiction professionals and the Department of Children and Family Services guidelines. Prerequisites: HUS 2493, PSB 2442. (3 hour lecture)

HUS1423

Group Counseling

in Substance Abuse 3 credits

This course stresses development of effective group counseling leadership skills including organizing, implementing, and evaluating group counseling programs. The course includes actual group experiences. Prerequisite: PSB 2442. (3 hour lecture)

HUS1428

Addiction Treatment

Delivery Systems 3 credits

This course is designed to survey the modalities of addiction treatment. The course will study federal and state systems as well as private not-for-profit and private for-profit programs. All of these will be described using examples drawn from local agencies, the diverse populations they serve, and the politics and economics of the systems. This course will also present a critical exploration of the history and theory defining problems of addiction treatment and the characteristics and career issues of an addiction treatment services worker. (3 hour lecture)

HUS1440

Family Issues

in Chemical Dependency 3 credits This course is designed to analyze the effects of chemical abuse on the family system. Emphasis will be placed on family roles and dynamics; characteristics of children (including adult children) of chemical abusers; theories of co-dependence; and adaptations made individually and socially by family members. Critical issues and strategies in family treat-

HUS1475

Addiction Counseling

and the law 3 credits

ment will be explored. (3 hour lecture)

This course is designed to introduce addiction counseling students to the vocabulary, agencies and processes required to work with clients involved in both the criminal and civil justice systems. This course focuses on the relationship between the law and Human Services institutions, patterns of law-making and law-breaking, the legal structures and processes, and law as an instrument of public policy, social control and social change. The roles and functions of police, courts and correctional services will be surveyed. Common civil issues that affect clients in recovery will be explored. In addition this course will enable students to explain the legal basis for alcohol and other drug services in Florida. State statutes pertaining to alcohol and drugs and their administrative rules will be reviewed. Confidentiality requirements, compliance standards, and professional ethics will be presented. Prerequisite: PSB 2442 (3 hour lecture)

HUS1480

HIV/AIDS and

the Substance Abuser 3 credits

This course is designed to educate prospective addiction counselors for the evaluation, counseling and outreach skills necessary for working with HIV and AIDS. The course will explore not only how this disease affects one personally, but also how this pandemic has affected many psychosocial aspects of society. (3 hour lecture)

HUS2303

Counseling Techniques 3 credits

Specific counseling techniques are introduced within the various counseling theories. Work involves both group and individual techniques. (3 hour lecture)

HUS2493

Addiction Counseling

Competencies 3 credits

This course is designed to enable students to master the TAP 21 competencies clinical evaluation, treatment planning, referral, service coordination, counseling, client, family, and community education, documentation and professional and ethical responsibilities. Additionally, the course will teach the student the process of identifying problems, establishing goals and deciding on a client treatment plan. Students will learn how to respond to an individual's needs during acute emotional and physical distress. Prerequisite: PSB 2442 (3 hour lecture)

HUS2500

Issues &

Ethics in Human Services 3 credits

This course is designed to familiarize students with the ethical problems that emerge from counseling the chemically dependent client. Emphasis will be placed on the following: the history and theory of ethics in health care; professionals' and patients' rights and responsibilities; the relationship between ethics and law; confidentiality and truthtelling in clinical relationships; technology; diagnostic testing and treatment; treatment of terminal illness; distribution of scarce medical resources and access to health care and systems payment. Prerequisite: PSB 2442. (3 hour lecture)

HUS2800

Counseling Techniques

Laboratory 3 credits

Practice counseling under supervised conditions using skills and techniques taught in HUS 1302 and HUS 2303. Work includes regular meetings with the supervisor. Corequisite: HUS 2303. (6 hour lab)

184



HUS2820

Field Experience

in Human Service 3 credits

Volunteer work as counseling paraprofessionals in a community agency under supervision. Students meet regularly with the Field Coordinator. Prerequisites: HUS 1001, 1302, 2303. (120 hrs. per term)

HUS2902

Directed Independent

Study In Addiction Treatment 3 credits
This course is designed to allow students to
pursue projects under faculty advisement
and supervision. Projects may be directed
research, or development of skills and competencies. The proposed project must demonstrate competency in one of the core competencies of addiction counseling learned
in HUS 2493 and must be approved by
the supervising instructor. Prerequisites: HUS

HUS2941

Human Services Addiction

2493, PSB 2442. (3 hour lecture)

Counseling Practicum 3 credits

This course is designed to provide the student with an arena to practice the application of human services addiction counseling theories and techniques in a licensed addiction treatment facility. Prerequisites: HUS 1302, 1421, 1423, 2493, 2500 and PSB 2442. (3 hour lecture)

Humanities

HUM1020

Humanities 3 credits

An integral approach to the humanities: creative ideas, works, and accomplishments of various cultures from the areas of art, architecture, drama, music, literature and philosophy are presented. (3 hour lecture)

HUM2513

Arts and Humanities 3 credits

Selected examples of art, including painting, sculpture, architecture, literature and the performing arts to illustrate the variety of art in relation to man's perception of self, nature and God. Intended primarily for use in overseas academic programs. May be repeated for credit. (6 hour lab)

HUM2574

Classical Theatre 3 credits

Explores the human view of the world as expressed through the medium of the theatre by studying a number of historically significant dramatic works which reveal perceptions of various societies; production techniques throughout the ages will also be examined. (3 hour lecture)

Interdisciplinary Honors

IDH1001

Honors Leadership

Seminar 1 1-3 variable credits Rigorous, in-depth exploration of selected honors topics. The topic and content are arranged by the instructor, department chairperson and campus honors coordinators. These seminars will consist of small groups that meet on a regular basis and be offered in any subject area. (1-3 hour lecture)

IDH1002

Honors Leadership

Seminar 2
1-3 variable credits
Rigorous, in-depth exploration of selected
honors topics. The topic and content are
arranged by the instructor, department chairperson and campus honors coordinators.
These seminars will consist of small groups
that meet on a regular basis and be offered in
any subject area. (1-3 hour lecture)

IDH2003

Honors Leadership

Seminar 3 1-3 variable credits

Hours taken by students to complete a capstone (thesis) project under the supervision of an advisor and a committee, which will produce a piece of work that students may take with them to upper division institution to demonstrate their ability to apply the principles learned and the quality of their work. (1-3 hour lecture)

IDH2004

Honors Leadership

Seminar 4 1-3 variable credits

Rigorous, in-depth exploration of selected honors topics. The topic and content are arranged by the instructor, department chairperson and campus honors coordinators. These seminars will consist of small groups that meet on a regular basis and be offered in any subject area. (1-3 hour lecture) Interdisciplinary Sciences

IDS1107

Tools for Success 1 credit

This course is for students majoring in science, technology, engineering and mathematics (STEM) fields. Students will learn writing, research, presentation, and technological skills necessary for success in STEM-related disciplines. Course topics include learning styles, collaborative skills, power study techniques and will use related technologies related to STEM. (1 hour lecture)

IDS2370

Leadership in Science,

Technology, Engineering and Mathematics 1

In this course students will research their career interests and interview professionals in science, technology, engineering and mathematics (STEM) fields. Students will learn to identify, compare, and evaluate upper division degree programs and prepare applications for admission to these programs. Students will write successful application essays and develop interview skills for transfer. (1 hour lecture)

IDS2371

Skills for Transfer

Success Mathematics

1 credit

This course is for students in science, technology, engineering and mathematics (STEM)

for matriculation to upper-division institutions. Students will learn to research, write, coordinate and present grants and scholarships in conjunction with the college application process. Students will document all of their efforts in an electronic portfolio. (1 hour lecture)

IDS2930

The Economic

Effects of Scientific Discovery Students will develop an understanding of the relationship between scientific discovery and/or development and its impact on a country's economic growth. Students will participate in a series of seminar sessions on campus, and will be assigned selected readings which reflect the course purpose. In a cooperative learning mode, students from Business will gain an understanding of scientific developments, while students from Natural Science will realize the economic value of scientific research. The capstone of the course is a trip to London and Paris to experience first hand this relationship. (1 hour lecture)

IDS2949

Service Learning

Applications 3 credits

Examines service-learning as an educational pedagogy. Presents the pedagogy's underlying philosophy, practices, and evaluation. This course provides opportunities to experience service-learning through direct participation in service and guided reflection about those experiences. It is offered primarily to meet recertification requirements for in-service K-12 teachers. (3 hour lecture)

ISC1012

History of Science 3 credits

A general survey of major issues in physical and biological science from the time of Galileo to the present. Emphasis will be given to the impact of scientific development on society, culture and thought. Corequisite: ENC 1102(H). (3 hour lecture)

ISC3012

History of Science 3 credits

This course offers a historical perspective of scientific advances from early civilizations to the beginning of the 21st century. (3 hour lecture)

Interior Design

IND1020

Interior Design 1 4 credits

Student's projects develop the ability to plan simple inferior floor plans and elevations. Corequisite: ARC 1115. Laboratory fee. (2 hour lecture; 4 hour lab)

IND1100

History of Interiors 1 3 credits

Acquaints the student with period styles in room decoration from Egyptian through the Renaissance. (3 hour lecture)

MDC 2008-10 CATALOG

IND1130

History of Interiors 2 3 credits Historical development of interior design from the Renaissance through the 20th century. (3 hour lecture)

IND1200

Interior Design 2 4 credits

Problems in room planning, correlation of color schemes and furnishings. Prerequisite: IND 1020. Laboratory fee. (2 hour lecture; 4 hour lab)

IND1300

Interior Design

Presentations 1 2 credits

An introductory course in the use of various media for presentation of plans, schemes, and interior perspective renderings. Prerequisite: IND 1020; corequisite: IND 1200. Laboratory fee. (1 hour lecture; 2 hour lab)

IND2210

Interior Design 3 4 credits

Projects provide practice in planning traditional and contemporary interiors including working drawings and specifications. Prerequisite: IND 1200; corequisite: IND 2330. Laboratory fee. (2 hour lecture; 4 hour lab)

IND2220

Interior Design 4 4 credits

Advanced problems involving interior arrangements in residential and commercial areas. Prerequisite: IND 2210. Laboratory fee. (2 hour lecture; 4 hour lab)

IND2330

Interior Design 2 3 credits

Emphasis is on perfecting water color, casein and reproducible drawing techniques through the presentation of interior plans, elevations and perspectives. Projects also provide experience in assembling collages. Prerequisite: IND 1300; corequisite: IND 2210. Laboratory fee. (1 hour lecture; 4 hour lab)

IND2430

Lighting Design 3 credits

A survey of utilitarian interior lighting and exterior architectural lighting including fundamentals and basic physic laws, practical applications to interior and exterior spaces and lighting design considering different levels of space utilization and fixture efficiency. Prerequisite: IND 1200. Special fee. (3 hour lecture)

IND2500

Professional Practices 3 credits

Duties and responsibilities relative to employment and business practices. Prerequisite: Sophomore standing level or equivalent. (3 hour lecture)

Italian Language

ITA1000

Elementary Italian

Conversation 3 credits

A course emphasizing conversational Italian. Extensive use is made of oral exercises and audio tapes. This course cannot be substituted for ITA 1120 or 1121. (3 hour lecture)

ITA1120

Elementary Italian 1 4 credits

An integrated (multi-media) approach to acquire proficiency in the basic skills of the Italian language (listening/understanding, speaking, reading, writing, and cross-cultural awareness). Emphasis on practical vocabulary and accurate pronunciation. Practice in class and laboratory in understanding and using the spoken language; reading and writing with progressive grammatical explanations. (4 hour lecture)

ITA1121

Elementary Italian 2 4 credits

A continuation of 1120. A proficiencyoriented course emphasizing the mastery of the basic skills of the language. Prerequisite: ITA 1120. (4 hour lecture)

ITA2201

Intermediate Italian 2 3 credits

Understanding, speaking, reading, writing and cross-cultural awareness, through a systematic review of reading and writing skills with emphasis on oral as well as written expression. Prerequisite: ITA 2220. (3 hour lecture)

ITA2220

Intermediate Italian 1 4 credits

Italian culture learned through a systematic review of reading and writing skills with emphasis on oral and written presentations. Prerequisite: ITA 1121 or equivalent. (4 hour lecture)

ITA2240

Intermediate Italian

Conversation 1 3 credits

Training in the acquisition and application of language skills. Practical use of the language to develop fluency and correctness in speaking. Pre/corequisite: ITA 2201. (3 hour lecture)

ITA2241

Intermediate Italian

Conversation 2 3 credits

Practice in listening and speaking using topical materials. Development of oral proficiency skills. Prerequisites: ITA 2201 or 2240. (3 hour lecture)

Japanese Language

JPN1120

Elementary Japanese 1 4 credit

An integrated (multi-media) approach to acquire proficiency in the basic skills of the Japanese language (listening/understanding, speaking, reading, writing, and cross-cultural awareness). Emphasis on practical vocabulary and accurate pronunciation. Practice in class and laboratory in understanding and using the spoken language; reading and writing with progressive grammatical explanations. (4 hour lecture)

IPN1121

Elementary Japanese 2 4 credits

A continuation of JPN 1120. A proficiency oriented course emphasizing the mastery of the basic skills of the language. Prerequisite: JPN 1120. (4 hour lecture)

JPN2201

Intermediate Japanese 2 4 credits

A continuation of JPN 2220. Further study of advanced grammar, together with the introduction of more complex reading materials and an increase in the number of "Kanji." Emphasis on cross-cultural awareness. Prerequisite: JPN 2220 or equivalent. (4 hour lecture)

JPN2220

Intermediate Japanese 1 4 credits

A continuation of JPN 1121. Students will complete all the inflection verbs. More "Kanji" vocabulary of combined "Kanji" (comprised of two or more "Kanji") are introduced in order to read authentic materials with the use of "Kanji" dictionary. Emphasis on cross-cultural awareness. Prerequisite: JPN 1121 or equivalent. (4 hour lecture)

Journalism

JOU1100

Basic Reporting 3 credits

Journalistic writing emphasizing the elements of reporting with an emphasis on the modern news story, analysis of the elements of news, style structure of news stories, news sources, and the mechanics of newspaper production. (3 hour lecture)

JOU1946

Journalism

Internship 1-3 variable credits

Qualified students will receive practical experience working with local or college communications media under the supervision of professional media specialists and the journalism faculty. Prerequisite: JOU 1100 and permission of department faculty. May be repeated for credit. (2-6 hour lab)

JOU1949

Co-op Work

Experience 1: JOU 3 credits

This course is designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

JOU2200

Editing and Makeup 3 credits

The application of copy desk techniques, including evaluating and editing copy, correcting faulty news stories, handling wire copy, writing headlines, and designing page layouts. Prerequisite: JOU 1100. (3 hour lecture)



JOU2602

Introduction to

Photoiournalism 3 credits

Practice and study in reportorial still photography, including darkroom techniques; visualization, selection and use of photography for the print media, legal, historical, stylistic and ethical aspects of journalistic still photography. Students must provide 35mm cameras, film and photography paper. Laboratory fee. Prerequisite: PGY 2401C. (6 hour lab)

JOU2949 Co-op Work

Experience 2: JOU 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

Judaic Studies

IST2423 History of

Ancient Israel 3 credits

This course will deal with major ideas and themes in the social, political, intellectual and religious history of the people of Israel. (3 hour lecture)

JST2815 History of Modern Israel

3 credits

This course will begin with the period of the Enlightenment for the people of Israel and follow the historical developments which led to the development of the State of Israel. (3 hour lecture)

Library Science

LIS1001

Library Research 1-3 variable credits

Provides students with a practical working knowledge of the Library so that resources may be used efficiently for research purposes. Emphasis is placed on developing effective and efficient methods of using the card catalog, the online catalog and databases, periodical indexes, CD-ROMS, general reference books and other library research technology. (1-3 hour lecture/lab)

LIS2004

Introduction to

Internet Research

This one credit course is delivered via the World Wide Web and Internet e-mail. Students must have an Internet account with e-mail, a

graphical Web browser (Internet Explorer 7.0 is recommended). Students must have basic familiarity with their computer's operating system, Web browser and e-mail program. The course focuses on methods of accessing information resources available through the Internet. Students will learn how to design effective search strategies, retrieve, evaluate and cite Internet resources. (1 hour lecture)

Linquistics

LIN2200

Phonetics 3 credits

An introduction to the elementary area of the sound systems of types of spoken English. Practice in recognition and transcription using IPA alphabet. (3 hour lecture)

LIN2605

Introduction to

Sociolinguistics 3 credits

This course introduces students to the study of how social and cultural factors affect human communication. Topics such as language attitudes and policies, dialects vs. standards, class variation, and race and gender will be discussed. (3 hour lecture)

LIN2670 Modern English

Grammar 3 credits

Grammatical relationships using traditional analysis in comparison with more recent linguistic techniques. (3 hour lecture)

Management

MAN1023

Management for

Non-Profit Organization

This is a foundation course in the management of non-profit organizations. This course provides an overview of the range and variety of institutions and activities of the non-profit sector and the critical role they play. The student will learn what non-profits have in common and the basic rationale for this type of organization through clarifying the basic scope, structure, and role of the organizations of the non-profit sector. An emphasis will be placed upon the need for non-profit organizations to operate similarly to for-profit businesses be efficiently managing financial resources, developing new revenue sources, adapting to change and effectively evaluating their community impact. (3 hour lecture)

MAN1949 Co-op Work

Experience 1: MAN 3 credits

This course is designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office

approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

MAN2021 Principles of

Management 3 credits

Analyzes the major functions of management, planning, staffing, directing, and controlling. Emphasis is placed on learning how to manage organizations for excellence in both performance and employee satisfaction. Major topics include goal setting and goal achievement, strategic planning, decision making, designing organizational structure, motivating and leading, managerial control techniques and applications, managerial ethics, and stress management skills. Computerized cases give students opportunities to make management decisions and get feed back on their effectiveness. (3 hour lecture)

MAN2300

Human Resources

Management 3 credits

Reviews how the personnel/human resources department contributes to overall planning and profitability of an organization. Major topics include typical personnel functions: recruitment and selection, training, performance appraisal, job analysis, and compensation and benefits administration. Class discussions will focus on changing value systems in the work force and the resulting challenges for managers. (3 hour lecture)

MAN2604 Managing in a Multi-Cultural

Environment 3 credits

This course will introduce opportunities and problems encountered by managers operating in a diverse environment either within or outside their home country's borders. Discussions will cover the environment of multinational management as well as planning, organizing, staffing, leading and controlling in both domestic and multinational companies. Current events and cultural issues that significantly affect international business will also be examined. (3 hour lecture)

MAN2930

Creative Leadership 3 credits

Students will experience and analyze the dynamics of group behavior in establishing a creative work climate where managers and employees can perform more effectively. Topics to be examined include team building, the importance of trust in professional relations, giving and receiving feedback, the functions of sub-groups, roles and status, appointed power, elected power, informal power, and formal power. The class is conducted entirely in a discussion group setting. (3 hour lecture)

100 2008-10 CATALOG

MAN2949 Co-op Work

Experience 2: MAN 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

MNA1053 Condominium &

Association Law 3 credits

An in-depth explanation of the legal basis for the creation and operation of the Condominium and Homeowner Associations. Careful analysis of the current Florida law relating to Condos and Homeowners Associations as they affect legal documents, statutory provisions, and trends in new legislation will be explained. A.S. degree credit only. (3 hour lecture)

MNA1322

Training Methods 3 credits

Provides practical experience in the four most effective training methods used in organizations today: demonstration performance, lecture, teaching interview and guided discussion. Emphasis is placed on analyzing the methods through student practice-teaching presentations. A.S. degree credit only. (3 hour lecture)

MNA1345

Effective Supervision 3 credits

Prepares students for success in supervisory or management positions. Emphasis is placed on learning how to communicate more effectively with employees, how to motivate employees, how to increase one's leadership effectiveness, how to delegate, how to counsel problem employees, how to conduct performance reviews, how to maintain a discrimination and harassment-free workplace, and how to manage time. (3 hour lecture)

MNA2120 Human Relations

in Business 3 credits

A practical review of human relations and communication skills necessary for superior performance and career advancement. Students will learn-and practice-effective interpersonal communication skills, including giving criticism tactfully, expressing feelings constructively, being more sensitive to body language messages, and active listening. Other major topics emphasized are building self-esteem, how values and attitudes influence our performance and work relationships, assertion skills, group dynamics and team building, managing conflict, dealing with difficult people, and the problems and challenges of getting along in a culturally diverse workplace (3 hour lecture)

MNA2344

Supervisory Practices 3 credits

Improves skills that add to success in managerial positions. Emphasis is placed on assertiveness training, ways to manage conflict more effectively, supervisory counseling techniques, demonstrations of counseling conferences, and team building methods. Experienced managers are invited as guest speakers in question and answer sessions about management practices in their organizations. Prerequisites: MNA 1345, or 2120.A.S. degree credit only. (3 hour lecture)

SBM1000

Small Business Management 3 credits Reviews forms of ownership, franchising, location analysis, financing, record keeping, purchasing, inventory control, marketing, security, insurance, and consumer credit. Students will prepare a feasibility study and present a comprehensive small business start-

Marketing

up plan. (3 hour lecture)

MAR101

Principles of Marketing 3 credits

The marketing management concept of the distribution of goods and services with consideration of market research and analysis, buying and selling, product design, pricing, promotion, transportation, competition, and the responsibilities of the marketing manager. (3 hour lecture)

MAR1053

Marketing for

Non-Profit Organizations 3 credits
This course provides an overview of the ways in which a non-profit organization

ways in which a non-profit organization can become market or customer driven. The management process directed at satisfying customer needs and wants through an exchange process is marketing in the non-profit organization. The student will examine this marketing orientation that enables a non-profit organization to achieve its objectives more effectively and produce organizational benefits. (3 hour lecture)

MAR1145

Introduction to

Food & Beverage Exporting

This class is the introductory class to the food and beverage specialty. It provides an overview of the food and beverage industry and defines products handled by the U.S. Department of Agriculture. Additionally, students will learn the basics of financing, researching, and exporting products overseas. (3 hour lecture)

MAR1200

Inventory and

Warehouse Management 3 credits

Inventory and Warehouse Management is concerned with inventory control and cost concepts such as economic order quantity, reorder point, materials planning and justin-time inventory systems. This course will discuss significant topics including strategic warehousing and distribution center decisions, storage facilities location and design, packing and containerization and performance measurement as they relate to the international environment. (3 hour lecture)

MAR1210

Business Logistics 3 credits

This is a foundation course in logistics- the science of planning, organizing and managing all activities involved in physically moving raw materials, inventory and finished goods inventory from point of origin to the point of use or consumption. The material will emphasize the nature and importance of supply chain management and technologies as well as special topics of increasing importance in logistics. (3 hour lecture)

MAR1720

Introduction to

E-Commerce 3 credits

This is a foundation course in E-Commerce. Students will learn the elements of effective e-commerce solutions, e-marketing, e-accounting, e-customer service, and the development process. (3 hour lecture)

MAR2141

Export/Import Marketing 3 credits

Introduction to international marketing, with special emphasis on export/import procedures and documentation. The basic principles and concepts of the distribution of goods in international markets; provides an overview of the international marketing process, and the problem facing international marketers in a multinational setting. Emphasis is placed upon export/import transactions. (3 hour lecture)

MAR2147

Product Handling

& Documentation in

Food & Beverage Export 3 credits

This course will cover product handling, storage, labeling, packaging and documentation. It will address the regulatory differences in moving a product through customs in foreign countries with an emphasis in Latin America and the Caribbean. (3 hour lecture)

MAR2150

International Marketing 3 credits

This course covers the four P's of product, price, place and promotion as they relate to a global marketing strategy. The concepts are introduced within the international trade framework as well as the cultural and economic environment affecting foreign marketing efforts. (3 hour lecture)

MAR2154

International Trade 3 credits

This is an exploratory course in the dimensions of international trade theory and policy. The background mechanics of world trade, the effect pf world resource distribution on international trade and an appreciation of the interdependencies among cultures is discussed. (3 hour lecture)



MAR2214

Export Distribution

of Food Products 3 credits
This course will explain the physical distri-

This course will explain the physical distribution channels in the food and beverage industry. It will define the differences among institutional, commercial and retail sectors in the market and how to access those sectors by developing a market strategy. The course will also study the operations side of transportation, ie. how to get the product to its destination, the most efficient routes and forms of transportation for the product. (3 hour lecture)

MAR2332

Merchandising in

the Food & Export Business 3 credits
This class will provide additional knowledge
in marketing a product through various marketing channels including trade shows, retail
grocery store positioning and shelving. It will
also explain the different cultural customs in
the overseas markets with emphasis on Latin
America and the Caribbean. (3 hour lecture)

MAR2340

Resource Development 3 credits

This course provides an overview of the ways in which a non-profit organization may enhance the image, increase participation and energize supporters around central issues. The course shows how an organization can develop a practical and systematic approach to fundraising. Students will learn to plan special events, analyze trends in non-profit funding, and understand the sources of funding, make a fundraising plan, and apply for grants and plan campaigns (3 hour lecture)

MKA1021

Fundamentals of Selling 3 credits

The nature and requirements of selling, including a consideration of buyer motivations and selling theories in relation to various buyer-seller situations. (3 hour lecture)

MKA1041

Principles of Retailing 3 credits

Major types of retail institutions and their organizational structure; activities of the merchandising, operating and controlling divisions; buying and merchandising functions; methods of financial, inventory, and credit control; and the selection and training of personnel. (3 hour lecture)

MKA1161

Introduction to

Customer Service 3 credits

A survey course which examines the attitudinal, behavioral and procedural basics which are common across all customer service sectors. An extensive vocabulary of customer service terms will be developed and students will understand their practical application in today's business environment. (3 hour lecture)

MKA1511

Principles of

Advertising and Copywriting 3 credits Techniques and behavioral factors used in advertising and copywriting which best motivate the consumer. Principles are applied in clear, concise written expression of various appeals used in selling goods and services. (3 hour lecture)

MKA1531

Advertising Layout

and Production 3 credits

Principles of effective advertising layout and production techniques. Laboratory sessions emphasize use of color, art work, choice of type and methods and techniques of producing ads for various media. Prerequisite: MKA 1511 or equivalent. (3 hour lecture)

MKA1949

Co-op Work

Experience 1: MKA 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

TRA2702

International Logistics

and Transportation 3 credits

International logistics concerns the flow of materials into, through and out of the international corporation as it relates to materials management, storage, inventory locations, physical distribution and documentation. This course will emphasize international transportation infrastructure and modes such as ocean, airfreight, intermodal movement, truck and rail. Choices among these modes will be explored considering such factors as transit time, packaging, risks, predictability and cost. (3 hour lecture)

Mass Communications

MMC2000

Introduction to

Mass Communications 3 credits

Development of a critical perception of the mass communications process and its results in both printed and electronic media. Applications of the ethics and codes of journalism to the changing roles and forms of journalistic media. MMC 2000 will transfer for mass communications majors to various universities within the Florida State System. (3 hour lecture)

PUR2003

Public Relations 3 credits

This course provides students with a broad spectrum of topics as related to the Public Relations profession. Current practices or organized programs used in business to earn public acceptance and good will for products, services, personnel, and policies are explored, studied and experienced. The course employs a hands-on approach to applying public relations technique in hypothetical business situations. Students prepare press releases, brochures, and other collateral materials. (3 hour lecture)

Mathematics College Level

MAC1105

College Algebra

3 credits

This course introduces the student to the concept of functions and their graphs. Students will graph linear, quadratic, rational, exponential, logarithmic, radical, power, and absolute value functions and transformations; perform operations on and compositions of functions; find the inverse of a function; apply the laws of logarithms to simplify expressions and solve equations; graph non-linear inequalities; solve related applications and modeling problems. Prerequisite: MAT1033 with a grade of C or better or satisfactory placement test scores. Special Fee. (3 hour lecture)

MAC1105L College Algebra Laboratory

1 credit

This course is intended to accompany and support MAC 1105. The competences of this laboratory course have been introduced in the accompanying lecture course. (2 hour lab)

MAC1114

Trigonometry

3 credits

Circular functions of real numbers, including topics of radian measure, the fundamental identities, solutions of triangles and complex numbers. Prerequisite: MAC 1140 or MAC 1105 with a grade of C or better or equivalent. Special fee. (3 hour lecture)

MAC1140

Pre-Calculus Algebra 3 credits

This course is primarily designed for students who are majoring in areas that require one or more courses in the calculus sequence. The student will analyze and graph algebraic, exponential,logarithmic,piecewise-equations, as well as systems of linear and nonlinear equations. The student will identify arithmetic and geometric sequences and series and solve related problems. The student will use the Binominal Theorem to expand polynomials and solve related problems. The student will use mathematical induction to prove statements regarding the properties of natural numbers. The student will solve applications and ve statements regarding the properties of natural numbers. The student will solve applications and modeling problems related to the above topics. Prerequisite: MAC 1105 with a grade of C or better or equivalent. (3 hour lecture)

189

MAC1147

Pre-Calculus Algebra

and Trigonometry 5 credits

This course includes all the topics covered in Pre-Calculus Algebra (MAC 1140) and in trigonometry (MAC 1114). See the course description for MAC 1140 and MAC 1114 for the MAC 1147 topics. The course is designed for students with a strong high school background in algebra and trigonometry, or for students who performed very well in college algebra. Prerequisite: MAC1105 with a grade of C or better or departmental permission. (5 hour lecture)

MAC2233

Business Calculus 3 credits

An introduction to the basic concepts of differential and integral calculus for business majors. Topics include limits; continuity; differentiation and integration of polynomial, logarithmetic and exponential functions with applications to business. Prerequisite: MAC 1105. Special fee. (3 hour lecture)

MAC2311

Calculus and

Analytical Geometry 1 5 credits

Introduction to analytic geometry; limits; continuity; differentiation of algebraic and trigonometric functions, differentials; introduction to integration and the fundamental theorem of calculus; application of definite integrals and derivatives. Prerequisites: MAC 1114 and MAC 1140 or MAC 1147 with a grade of C or better or departmental permission. (5 hour lecture)

MAC2312

Calculus and

Analytical Geometry 2 4 credits

Techniques of integration; applications of integration; differentiation and integration of inverse trigonometric, exponential, logarithmic, and hyperbolic functions; sequences and series; parametric equations and polar coordinates; improper integrals; and indeterminate forms. Prerequisite: MAC 2311 with a grade of C or better. (4 hour lecture)

MAC2313

Calculus and

Analytic Geometry 3 4 credits

Analytic geometry of three dimensions; vectors and vector valued functions; curves and surfaces in 3-space; partial differentiation and applications; multiple integrals and their applications; line integrals, surface integrals; and Green's theorem. Prerequisite: MAC 2312 with a grade of C or better. (4 hour lecture)

MAD1100

lecture)

Discrete Mathematics for Computer Science

This course introduces students to the principles of discrete mathematics that apply to computer science. Topics include set theory, logic, Boolean algebra, number theory, vectors and matrices, combinatorics, probability, relations, functions, and basic graph theory. Prerequisite: MAC1105. Special fee. (3 hour

MAD2104

Discrete Mathematics 3 credits

This course is designed for those students who are majoring in computer science, engineering, mathematics, and other highly technological fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. Prerequisite: MAC 1140. Special fee. (3 hour lecture)

MAD3107

Discrete Structures 3 credits

Topics include sets, logic, switching circuits, Boolean algebra, combinatorics, probability, mathematical proofs, mathematical induction, functions, relations, and graph theory. Credit is not also given for MAD 2104. Prerequisite: MAC 2312. (3 hour lecture)

MAP2302

Introduction to

Differential Equations 3 credits

Includes equations of order one and degree one, orthogonal trajectories, linear equations and constant coefficients, non-homogeneous equations, inverse differential operators, solutions using LaPlace Transforms, elementary existence theorems, series solutions, and applications to physics and chemistry. Prerequisite: MAC 2312 with a C or better or equivalent. (3 hour lecture)

MAS2103

Elementary Linear

Algebra 3 credits

Vectors, coordination of space, linear independence and bases, equations in 3-space, linear transformations, matrices, rank, and nullity. Prerequisite: MAC 2311. Special fee. (3 hour lecture)

MAS3105

Linear Algebra 3 credits

This course is designed for students who are majoring in secondary mathematics education. Major topics include systems of linear equations, matrices, determinants, vector spaces, linear transformations, eigenvectors and eigenvalues, inner-product spaces and orthogonality. Prerequisite: MAC2312. (3 hour lecture)

MAS3301

Algebraic Structures 3 credits

This course is designed for students who are majoring in secondary mathematics education, mathematics, science or engineering. Topics include set theory, basic properties of the integers, groups, rings, fields and the homomorphisms of these algebraic structures. Prerequisite: MAC 2312. (3 hour lecture)

MAS4203

3 credits

Number Theory 3 credits

Topics include mathematical induction, divisibility, the Euclidean algorithm, primes, the Fundamental Theorem of Arithmetic, number-theoretic functions, congruence, linear Diophantine equations, linear congruence's, the Chinese Remainder Theorem, and

the theorems of Euler, Fermat, and Wilson. Prerequisite: MAC 2312. (3 hour lecture)

MAT1033

Intermediate Algebra

3 credits

Through this course students develop various concepts of Algebra. Students will solve linear, quadratic, rational, and radical equations; graph linear equations and inequalities in one variable; graph linear equations in two variables; solve and graph systems of linear equations and inequalities in two variables; simplify rational expressions; simplify expressions containing rational exponents; simplify complex numbers; solve related applications. Prerequisites MAT 0024 or 0020 with a grade of S or appropriate placement test score. (3 hour lecture)

MGF1106

Mathematics for

Liberal Arts 1 3 credits

This course includes topics in geometry, probability and statistics, and sets and logic. It also covers selected topics in the history of mathematics. Prerequisite: MAT 1033. Special fee. (3 hour lecture)

MGF1106L Mathematics for

Liberal Arts 1 Lab

1 credit

A laboratory course designed to give the student a high degree of skill and confidence in applying arithmetic, algebra, geometry, sets and logic, and probability and statistics, to solving problems expressed in CLAST format. Nonrepeatable. Prerequisite: MAT 1033; corequisite: MGF 1106. (2 hour lab)

MGF1107

Mathematics for

Liberal Arts 2 3 credits

This course introduces the student to the concepts of financial mathematics, linear and exponential growth, numbers and number systems, history of mathematics, elementary number theory, voting techniques, and graph theory. Prerequisite: MAT 1033 with a grade of C or better or equivalent. (3 hour lecture)

MGF1118L

Math Computation

Review 1 credit

The purpose of this course is to prepare for the computational section of the CLAST exam. This course will cover all of the computational competencies of the CLAST exam as well as general test taking skills. This course will not count as a Gordon Rule mathematics course. Prerequisite: Departmental Permission. May be repeated. (2 hour lab)

MGF1120

Basic Probability 1 credit

The purpose of this course is to introduce students to topics in probability and statistics from a real world perspective. (1 hour lecture)



MGF2202

Finite Mathematics 3 credits Symbolic logic, sets, partitions, probability, vectors and matrices with emphasis on problems encountered in the business world. Prerequisite: MAT1033 or equivalent. (3 hour lecture)

MTB1103

Business Mathematics 3 credits

Reviews the basic arithmetic processes and covers mathematics and computations used in business including cash and trade discounts, commissions, markup, markdown, depreciation, simple and compound interest and bank discounts, payroll records, taxes, insurance, inventory, analysis of financial statements, statistics (mean, median, and mode), charts and graphs, and consumer applications. (3 hour lecture)

MTB1302L

Business Mathematics

Laboratory 1 credit Provides the business mathematics stu-

dent with support to achieve the objective of MTB 1103. (2 hour lab)

MTB1321 Technical

Mathematics 1

3 credits

Basic concepts of arithmetic, algebra, graphs, geometry, trigonometry, tables, and interpolation needed in technical programs. (3 hour lecture)

MTB1322

Technical

Mathematics 2 3 credits

Applications of algebra, trigonometry, and analytic geometry needed in technical programs. Prerequisite: MAC 1105. (3 hour lecture)

MTG2204

Geometry

for Educators 3 credits

This course emphasizes Euclidean Geometry. The course includes measurements and properties of plane and solid figures, sets logic and proofs. (3 hour lecture)

MTG2204L

Geometry for

Educators Laboratory 1 credit

This is an accompanying laboratory to MTG 2204 in which students will perform constructions, work on projects and presentations, and use technology in exploring geometric properties and patterns. (2 hour lab)

MTG4212

College Geometry 3 credits

Topics include the axiomatic structure of Euclidean geometry as well as concepts from advanced Euclidean geometry and non-Euclidean geometry. Prerequisite: MAC 2312. (3 hour lecture)

Mathematics College Preparatory

MAT0002

College Preparatory

Arithmetic 4 credits

This course introduces students to the basic topics of arithmetic and measurement of geometric figures. Students will add, subtract, multiply, and divide whole numbers, fractions and decimals. Students will solve problems involving proportions and percents. Prerequisite: Appropriate placement test scores or referral determine admission. (6 contacts hrs. lecture/lab)

MAT0020

College Preparatory

Mathematics 5 credits

This course combines arithmetic and beginning algebra. Topics include sets, operations on signed numbers, solving linear equations and inequalities in one variable, operations on polynomials, factoring, integer exponents, radicals, graphing, and applications of these topics. Placement test scores or referral determine admission. This course does not satisfy college level mathematics requirements for graduation. (8 contact hour lecture/lab)

MAT0024

College Preparatory

Algebra 4 credits

This course introduces students to the concepts of algebra. Students will simplify or perform operations on signed numbers, radicals, polynomials, and expressions containing exponents; factor polynomials; solve and graph linear equations and inequalities in one variable; graph linear equations in two variables; solve related applications. (6 contact hrs. lecture/lab)

Medical Laboratory Technology

MIT1040I.

Introduction to Medical Laboratory

Technology 1 credit

Collection of blood by venipuncture, skin puncture and donor room techniques. This includes handling of specimens, professional ethics, basic anatomy and physiology of the circulatory system, medical terminology and safety practices including those for AIDS patients. (2 hour lab)

MLT1191

Histotechnology 1 3 credits

This course will introduce students to the fundamental principles of histologic technology. These include the principles of fixation, processing for paraffin-embedding, microtome sectioning, staining and cover-slipping and laboratory safety. (3 hour lecture)

MLT1191L

Histotechnology 1 Lab 2 credits

This course will introduce students to fundamental laboratory skills and safety concepts in histologic technology. It includes laboratory aspects of specimen preparation, fixation, sectioning and routine staining. The student will also be introduced to the basic principles of record keeping, use and maintenance of laboratory equipment and quality control. (4 hour lab)

MLT1195C

Tissue Identification 1 3 credits

This course will introduce students to the study of human organs and tissues for the purpose of developing histotechnological skills. It will include recognition, composition, and function of organs and tissues. Macroscopic and microscopic laboratory examination and evaluation of specimens will be included. (2 hour lecture; 2 hour lab)

MLT1196

Laboratory Safety

and Regulations 2 credits

This course will introduce students to the rules and regulations governing safety in the histotechnology laboratory. It will also introduce students to the federal regulations pertaining to the histotechnology laboratory and methods of compliance. Prominent safety issues to be covered include the biological and chemical hazards in histology laboratory, formaldehyde standard, hazardous waste disposal and minimization. (2 hour lecture)

MLT1210C **Clinical Urinalysis**

2 credits with Lab

Theoretical concepts and practice in the collection and analysis of urine and other body fluids by combination didactic and laboratory instruction. Performance of routine urinalysis procedures including microscopy with identification of related disease states. Laboratory fee. A.S. degree credit only. (1 hour lecture; 2 hour lab)

MLT1300

Clinical Hematology 2 credits

Didactic study of blood cells to include the origin, morphology, function and dysfunction of cells and related disease states of the blood. Theoretical concepts and principles of routine hematology procedures, quality control and instrumentation. Corequisite; MLT 1300L. A.S. degree credit only. (2 hour lecture)

MLT1300L **Clinical Hematology**

Laboratory 2 credits

Manual and automated procedures in hematology. This includes blood cell counts and other basic hematologic procedures in the simulated laboratory and in the clinical setting. Corequisite: MLT 1300. Laboratory fee. A.S. degree credit only. (4 hour lab/clinic)

MDC 2008-10 CATALOG

MLT1330

Clinical Coagulation 1 credit

Didactic study of hemostasis, various clotting mechanisms, and related disease states. Corequisite: MLT 1130L. A.S. degree credit only. (2 hour lecture)

MLT1330L

Clinical Coagulation

Laboratory 1 credit

Performance of selected coagulation assays by manual and automated methods. The significance of test results to assess hemostasis in health and disease is included. Corequisite: MLT 1330. Laboratory fee. A.S. degree credit only. (2 hour lab)

MLT1500

Clinical Immunology/Serology 2 credits

Theoretical concepts of the human immune system in health and disease. Relationships to immunohematology, infection, and serological procedures are analyzed. Pre/corequisite: BSC 2085; prerequisite: BSC 2086; corequisite: MLT 1500L. A.S. degree credit only. (2 hour lecture)

MLT1500L

Clinical Immunology

/Serology Laboratory 1 credit

Performance of serological procedures that are identified in MLT 1500. The clinical significance of test results to disease states is included. Pre/corequisites: BSC 2085, 2086; corequisite: MLT 1500. A.S. degree credit only. Laboratory fee. (2 hour lab)

MLT1610

Clinical Chemistry 1 2 credits

Theoretical concepts and principles of carbohydrate, nonprotein nitrogen, and electrolyte chemistry analyses with emphasis on their relationships to various disease states. Analytical procedures to assess liver function and acid-base balance are also included. Prerequisite: CHM 1025; corequisite: MLT 1610L. A.S. degree credit only. (2 hour lecture)

MLT1610L

Clinical Chemistry 1

Laboratory 2 credits

Performance of chemistry procedures on body fluids with emphasis on manual and automated instrumentation. Prerequisite: CHM 1025L. Laboratory fee. A.S. degree credit only. (4 hour lab/clinic)

MLT1752

Quality Control

Laboratory Mathematics 2 credits
Emphasis on mathematical computations
related to procedures in the clinical laboratory including dilutions, solutions, colorimetry, hematology math, enzymatic calculations, calculations relating to renal function
tests, and mathematical principles related to
ionic solutions. The student will also be given
specific statistical tools necessary for quality
control procedures as well as interpretations
of Levy-Jennings charts and troubleshooting
tools. (2 hour lecture)

MLT1840L

Histotechnology Practicum 1

5 credits

This is a clinical experience in which students will learn the techniques of processing human tissue for histological purposes. Prerequisite: MLT 2192. (15 hour clinic)

MLT2180C

Infectious Diseases & Control Practices

3 credits

This course will focus on the principles of transmission and control of diseases with an emphasis on infectious tissue specimens. Prerequisites: MCB 2013, 2013L. (2 hour lecture; 2 hour lab)

MLT2192

Histotechnology 2 3 credits

This course is a continuation of Histotechnology 1. Students will be introduced to advanced processing techniques of human tissue for anatomical pathology and concepts of instrumentation. Prerequisite: MLT 1191. (3 hour lecture)

MLT2192L

Histotechnology 2

Laboratory 2 credits

This course is a continuation of Histotechnology Lab 1. Students will be introduced to more complex laboratory techniques in histotechnology. Prerequisite: MLT 1191L; corequisite: MLT 2192. (2 hour lecture; 4 hour lab)

MLT2197C

Tissue Identification 2 4 credits

This course will provide the students with the correlations between histotechnological procedures and diseases processes. Students will study the changes in tissue that are associated with various disease states, and will learn the usefulness of selected special stains and techniques in identifying disease processes. Prerequisite: MLT 1195C. (2 hour lecture; 4 hour lab)

MLT2198

Histochemistry 3 credits

This course will introduce students to organic chemistry of stains and special stains, dyes, hydrocarbons; aromatics, alcohols, ethers, aldehydes, ketones, carbonyl compounds, amines and amides. Prerequisites: CHM 1033, 1033L; corequisite: MLT 2198L. (3 hour lecture)

MLT21981

Histochemistry Laboratory 2 credits

This course will introduce students to biochemical's used in histology with emphasis on laboratory preparation and use of histochemical and immunohistochemical stains. Prerequisite: CHM 1033L; corequisite: MLT 2198. Laboratory fee. (4 hour lab)

MLT2403

Clinical Microbiology 2 2 credits

This course will provide a working knowledge of clinical bacteriology and should

complement the Microbiology 2 Lab. The student will be exposed to some of the indigenous flora and the pathogenicity of microorganisms as they affect various body sites. Specimen transport, collection, laboratory identification techniques, and antimicrobial therapy also provides the knowledge base necessary for working in a clinical setting. (2 hour lecture)

MLT2403L

Clinical Microbiology Lab 2 2 credits

This course is designed to complement the Microbiology 2 lecture and provide students with the necessary knowledge base and laboratory skills to effectively identify microorganisms associated with infectious diseases. (4 hour lab)

MLT2440

Clinical Microbiology 1 1 credit

This course will provide an overview of clinical mycology and parasitology. Topics will include both parasites and fungi and will cover life cycles, epidemiology, and etiology. Emphasis will be given to the most commonly encountered mycoses and parasitic infestations. This course should be taken concurrently with Clinical Microbiology 1 Lab. (1 hour lecture)

MLT2440L

Clinical Microbiology Lab 1 1 credit

This course provides a practical overview of mycology and parasitology. Students will also obtain hands-on experience working with formalin preserve ova and parasites. They will also obtain the knowledge necessary to be able to identify at least the genus level of the most commonly encountered yeasts and fungi using microscopic and macroscopic techniques. This course should be taken concurrently with Clinical Microbiology. Corequisite: MLT 2440. Laboratory fee. (2 hour lab)

MLT2525

Immunohematology 2 credits

Theoretical concepts involving blood group systems, hemolytic diseases, and blood bank procedures relating to transfusion and component therapy. Prerequisite: MLT 1500; corequisite: MLT 2525L. A.S. degree credit only. (2 hour lecture)

MLT2525L

Immunohematology

Laboratory 2 credits

Performance of basic blood typing, blood bank assays on prepared specimens, and appropriate quality control procedures. Interpretation of results is included. Prerequisite: MLT 1500L; corequisite: MLT 2525. Laboratory fee. A.S. degree credit only. (4 hour lab)

MLT2620

Clinical Chemistry 2 2 credits

Theoretical concepts and principles of proteins, enzymes, and lipids with emphasis on their relationship to various disease states. Prerequisite: MLT 1610; corequisite: MLT 2620L. A.S. degree credit only. (2 hour lecture)

192



MLT2620L

Clinical Chemistry 2

Laboratory 1 credit Performance on those analyses identified in MLT 2620 including electrophesis and

in MLT 2620 including electrophesis and quality control. Prerequisite: MLT 1610L. Corequisite: MLT 2620. Laboratory fee. A.S. degree credit only. (2 hour lab)

MLT2624L

Special Techniques in Clinical Chemistry

istry 2 credits

The principles and performance of radioimmunoassay, EMIT, ELISA, and toxicological techniques for thyroid function, hormones, and toxic substances. Prerequisites: MLT 1610, 1610L; corequisites: MLT 2620, 2620L. Laboratory fee. A.S. degree credit only. (4 hour lab)

MLT2807L

Hospital Practicum:

Immunohematology 3 credits

A supervised laboratory rotation in a clinical immunohematology facility. This provides the student an opportunity for the practice of skills previously learned and for the acquisition of new procedural skills. The development of interpersonal skills and the transition from student to professional are emphasized. Prerequisites: MLT 2525, 2525L; corequisite: MLT 2930. A.S. degree credit only. (9 hour clinic)

MLT2809L

Hospital Practicum:

Hematology 3 credits

A supervised laboratory rotation in a clinical hematology facility. This provides the student an opportunity for the practice of skills previously learned and for the acquisition of new procedural skills. The development of interpersonal skills and the transition from student to professional are emphasized. Prerequisites: MLT 1300, 1300L, 1330, 1330L; corequisite: MLT 2930. A.S. degree credit only. (9 hour clinic)

MLT2810L

Hospital Practicum:

Chemistry 3 credits

A supervised laboratory rotation in a clinical chemistry facility. The development of interpersonal skills the transition from student to professional are emphasized. This provides the student an opportunity for the practice of skills previously learned and for the acquisition of new procedural skills. Prerequisites: MLT 2620, 2620L, 2624L; corequisite: MLT 2930. A.S. degree credit only. (9 hour clinic)

MLT2811L

Hospital Practicum: Microbiology 3 credits

A supervised laboratory rotation in a clinical microbiology facility. This provides the student an opportunity for the practice of skills previously learned and for

the acquisition of new procedural skills. Prerequisites: MLT 2403, 2403L; corequisite: MLT 2930. A.S. degree credit only. (9 hour clinic)

MLT2841L

Histotechnology

Practicum 2 5 credits

This clinical experience will introduce the students to the basic techniques of microtomy, staining and preparation of human tissue for anatomical pathology. Corequisite: MLT 1840L. (15 hour clinic)

MLT2930

Medical Laboratory

Technology Seminar 2 credits

Clinical correlations, professional issues, updates in Medical Laboratory Technology with student's reports on recent professional journal articles, and the use of microcomputers in the laboratory. Corequisite: MLT 2807L, 2810L, 2811L. A.S. degree credit only. (2 hour seminar)

MLT2931

Histotechnology Seminar 2 credits

This course will prepare students for career entry. Emphasis will be placed on current topics in histotechnology, legal and ethical responsibilities of health care professionals, knowledge of the health care delivery system, including health policies and financing and employability skills. Corequisite: MLT 1840L. (2 hour lecture)

Meteorology

MET1010 Introduction to

Weather 3 credits

An introduction to fundamentals of weather and their impact on human activities. Topics include temperature, humidity, clouds, precipitation, air masses fronts, and storms. Emphasis is on understanding how these processes take place and their results. Pre/corequisite: PSC 1515. Optional laboratory, MET 1010L. (3 hour lecture)

MET1010L

Introduction to

Weather Laboratory 1 credit

An elective laboratory to accompany MET 1010. An investigation through experimentation of fundamental meteorological problems. Map analysis, temperature and humidity experiments. Pre/corequisite: MET 1010. Laboratory fee. (2 hour lab)

MET3702

General Meteorology 3 credits

This course will provide students with the knowledge of atmospheric structure and composition; weather phenomena and systems; the physics of atmospheric processes; global climate, and climate change. Corequisite: MET3702L. (3 hour lecture)

MET3702L

General Meteorology

Laboratory 1 credit

The meteorology lab is a separate 1 credit course designed to be taken in conjunction with a meteorology lecture. Experiments performed each week are chosen with the material being studied in the lecture. Corequisite: MET3702. (2 hour lab)

Midwiferq

MDW1000C

Midwifery Sciences

8 credits

An introduction to the basic principles of midwifery with emphasis on Basic Health Care Skills, Laboratory and Diagnostic Testing, Pharmacology and Counseling Skills for the Midwife in Practice. Prerequisite: Program Selection; corequisites: MDW 1820, 2220. (5 hour lecture; 6 hour lab)

MDW1100C

Antepartum

9 credits

Further development of midwifery skills including: Patient's preparation for conception, hygiene of pregnancy, prenatal examination procedures, nutritional assessment and culture specific counseling, with an emphasis on preventive strategies. Prerequisites: MDW 1000C, 1820, 2220; corequisite: MDW 1822. Laboratory fee. (7 hour lecture; 4 hour lab)

MDW1820

Midwifery Clinic 1

2 credits

Students are closely supervised as they observe maternity services provided in clinical settings by Licensed Midwives and other maternity care givers. Corequisites: MDW 1000C, 2220. (8 hour clinic)

MDW1822

Midwifery Clinic 2

3 credits

Emphasis on the clinical application of skills and theory presented in MDW 1100C. Corequisite: MDW 1100C. (9 hour clinic)

MDW1910L

Clinic Lab

Seminar 1 1 credit

A guided group discussion to review the student's clinical experience. Format will include formal case presentation using the problem solving process to elicit the student's critical thinking in the clinical practicum. Prerequisite: MDW 2111C, 2824; corequisite: MDW 2200C, 2826. (2 hour lab)

MDW1912L

Midwifery Clinic Lab

Seminar 2 1 credit

A guided group discussion to review the student's clinical experience. Format will include formal case presentation to elicit the student's critical thinking in the clinical practicum. Prerequisites: MDW 1910L, 2200C, 2826; corequisites: MDW 2211C, 2215, 2828. (2 hour lab)

MDC 2008-10 CATALOG

MDW2111C

The Intrapartum and Post Partum

5 credits

The physiology, mechanism of normal labor, delivery and the postnatal period. Identification and management of complications. Neonatal assessment and managements. Care of the well woman through menopause. Professional issues in midwifery practice. Prerequisites: MDW 1100C, 1822; corequisite: MDW 2824. Laboratory fee. (3 hour lecture; 4 hour lab)

MDW2200C

Gynecology Women's

Health and Family Planning 3 credits Care of the well woman through menopause will include history and physical exams, methods of contraception, infertility, unplanned or unwanted pregnancy, human sexuality and STDs. Prerequisites: MDW 1910L, 2826. (1 hour lecture; 2 hour lab)

MDW2211

Obstetrics and

Medical Management 1 credit

Students will learn primary midwifery management, referral and consultation, common obstetric complications and professional responsibilities, prenatal and postpartal care to at-risk women with physician collaboration. Corequisites: MDW 1912L, 2215, 2828. (1 hour lecture)

MDW2215

Professional Issues

in Midwifery Practice 2 credits

This course explores career preparation, opportunities and trends, and the accompanying legal, ethical and professional expectations. Corequisites: MDW 1912L, 2211, 2828. (2 hour lecture)

MDW2220

Applied Pharmacology 2 credits

The student will learn the use, actions and effects of drugs, management of anaphylactic shock. Emphasis on benefits and risks plus alternatives methods of healing. Prerequisites: MDW 1000C, 1820. (2 hour lecture)

MDW2824

Midwifery Clinic

Practice 3 3 credits

This course focuses on development of intrapartum and postpartum knowledge and skills in a supervised clinical setting in which the student will assist in client care during labor, delivery and the postnatal period. Prerequisite: MDW 2111C. (12 hour clinic)

MDW2826

Midwifery Clinic 4 8 credits

Student will provide prenatal, intrapartum and postpartum client care in a clinical setting under supervision of a Florida licensed preceptor. Corequisites: MDW 1910L, 2200C. (32 hour clinic)

MDW2828

Midwifery Clinic 5 8 credits

Student will provide client care under supervised preceptorship in a clinical site. Upon

completion, the student will have provided primary care to 50 women and their babies during pregnancy, labor, delivery and the postpartum. Prerequisites: MDW 1912L, 2211, 2215. (24 hour clinic)

Military Science

Air Force ROTC (AFR)

Miami Dade College, in cooperation with the Department of Aerospace Studies, Air Force Reserve Officer Training Corps (AFROTC), at the University of Miami, provides academic instruction and training experiences leading to commissioned service in the United States Air Force.

AFROTC is an educational program designed to give men and women the opportunity to become Air Force officers while completing a bachelor's degree. The AFROTC program is designed to prepare them to assume positions of increasing responsibility and importance in the modern Air Force.

AFROTC offers several routes to an Air Force commission. Optimally, the program lasts four years, but it can be completed in three, two or even just one year if you are majoring in a critically needed area. Depending on the program chosen, attendance at either a four-week or five-week summer field training course is required.

The four-year AFROTC program is comprised of a two-year basic course in Air Force organization and the development of air power, a four-week field training course at an Air Force base during the summer, and a two year advanced course in improving communication skills, leadership, and managerial skills, and knowledge of national security issues necessary for becoming an Air Force Officer. Cadets who complete the basic course program at MDC are eligible to apply for selection into the AFROTC advanced course at any 4-year college or university offering these last two years of the AFROTC program.

AFROTC cadets will receive junior officer training, career orientation, and learn how the Air Force operates. Travel to and from the base where field training occurs is paid for by the Air Force. The end product of the AFROTC program is to produce second Lieutenants in the Air Force upon graduation. For more information, contact the detachment at 305-284-2870 or visit www.miami. edu/aerospace-studies.

ENROLLMENT

There is no military obligation to sign up for AFROTC. To take classes students must be U.S. citizens or resident aliens, and must be U.S. citizens to receive a commission. It is possible to begin AFROTC as a resident alien and earn a commission once citizenship is obtained. AFROTC cadets must also pass the Air Force Officer Qualifying Test, a physical fitness test including a 1.5 mile timed run, push-ups and sit-ups and pass a Department of Defense physical exam in order to be eligible for scholarships and ultimately commissioning.

SCHOLARSHIPS

A variety of AFROTC scholarships for one, two, three, and four years are available on a competitive basis and include a \$750 textbook allowance per semester plus a non-taxable \$250-\$400 stipend each month during the school year. Some scholarships provide full college tuition while others begin at \$15,000 per year. In selected academic areas, scholarships may extend to meet a five year degree program recognized by the college. The one year program is for students preparing for occupations for which the Air Force has a special need. The majority of two to four year scholarships are for students pursuing degrees in certain fields of engineering, science and math, with a limited number going to other academic degrees. A number of scholarships are also available to students enrolled in certain non-technical degree programs such as: business administration, accounting, economics, and management. Scholarships for careers in the medical field are also offered.

BENEFITS

All AFROTC cadets receive uniforms, books and equipment for ROTC classes at no cost. Upon being commissioned a 2nd Lieutenant in the Air Force, you will receive a starting salary and allowances worth more than \$40,000 per year. Free medical and dental care, 30 days annual vacation with pay and added educational benefits are also part of the compensation package.

AFR 1101

The Foundations of the United States Air Force I

Offered Fall Semester

1 credit
Survey course designed to introduce students to the United States Air Force and encourage participation in Air Force Reserve Officer Training Corps (AFROTC). Featured topics include: overview of AFROTC, special programs offered through AFROTC, mission and organization of the Air Force, brief history of the Air Force, introduction to leadership, Air Force officer career opportunities, and an introduction to communication skills. Leadership Laboratory* is mandatory for AFROTC cadets and complements this course by providing cadets with followership

experiences. AFR 1111

The Foundations of the United States Air Force II

Offered Spring Semester 1 credit Survey and follow-on course to AIS 101 designed to introduce students to the United States Air Force and encourage participation in Air Force Reserve Officer Training Corps (AFROTC). Featured topics include: introduction to leadership, Air Force Core Values, introduction to interpersonal communication and team building, and a continuation of communication skills. Leadership Laboratory* is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

194



AFR 2130

The Evolution of USAF Air and Space Power I

Offered Fall Semester
Course designed to examine general aspects of air and space power through a historical perspective. Covers time period from first balloons and dirigibles to Space-age global positioning systems of the Global War on Terror. Examines several fundamental truths associated with war in the third dimension: e.g. Principles of War and Tenets of Air and Space Power. Leadership Laboratory* is mandatory for AFROTC cadets and complements this course by providing

AFR 2131

The Evolution of

USAF Air and Space Power II

cadets with followership experiences.

Offered Spring Semester 1 credit
Continuation of AIS 201 which provides students with knowledge level
understanding for general element and
employment of air and space power.
Discusses the importance of Air Force Core
Values with use of operational examples
and historical Air Force leaders. Continues
to develop communication skills. Leadership
Laboratory* is mandatory for AFROTC cadets
and complements this course by providing
cadets with followership experiences.

* Leadership Laboratory Offered Fall and Spring Semesters

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets.

Army ROTC (MSL)

The Army Reserve Officer Training Corps a college elective that is designed to and instill the leadership skills necessary become officers in the active Army, National Guard, or Army Reserves. Students who complete the ROTC curriculum and earn a Bachelor degree will in most undergraduate majors offered by local universities, be commissioned as second lieutenants. Army ROTC teaches classes and maintains offices at both the Kendall and North campuses.

ENROLLMENT

Freshman and sophomore students may signup for the MSL courses directly through MDC. There is no military obligation to take the course. At a minimum, students must be Resident Aliens to participate and must be U.S. citizens to earn a commission. Students transferring to Florida International University, Florida Atlantic University, University of Miami, Barry University or Florida Memorial College may be eligible to complete the program and earn a commission.

SCHOLARSHIPS

Three and two-year scholarships are offered to qualified ROTC students for use at one of the universities listed above. Scholarships pay up to \$20,000 annually toward tuition, \$900 annually for books, and \$300 to \$500 monthly directly to the student. For more information, contact the Enrollment Officer at (305) 237-2785 or (305)348-1619.

SPECIAL PROGRAMS

Prior service members and members of the National Guard and Army Reserve have special entrance consideration and may be entitled to other monetary benefits. Call the number listed above for more information. Sophomore students preparing to enter a university and that did not participate in ROTC during their first two years in college may attend a five-week ROTC basic course during the summer. This course is voluntary and does not require enlistment or further commitment to the service in order to attend. All transportation, lodging, uniforms and meals are provided. Additionally, students earn \$800-\$900 for attendance.

BENEFITS

All cadets receive uniforms, books, and equipment at no extra cost. Contracted students, regardless of scholarship, receive \$300 to \$500 monthly. Once commissioned, active duty Second Lieutenants earns a starting military compensation package of \$48,114.70 annually, have 30 days paid vacation annually, are entitled to further education benefits, and free medical/dental care.

MSL1001

First Year Basic

Army ROTC 2 credits
Introduction to Army organizations, military
customs, basic marching drills, map reading,
and land navigation techniques, drown-proofing, rappelling, river crossing techniques, and
physical fitness. Physical fitness training and

laboratory required.

MSL1002

First Year Basic Army ROTC

Army ROTC 2 credits
Continues basic leadership training.
Additionally introduces students to officer
duties, awards and decorations, individual
military skills, radio communication procedures and physical fitness. Physical training

and lab required.

MSL2101 Second Year Basic

Army ROTC 2 credits

Instruction in squad and platoon marching drills, military training and inspections, leadership techniques, advanced map reading, and refresher in skills learned at earlier levels. Physical fitness training and lab required.

MSL2102

Second Year Basic

Army ROTC 2 credits

Continued instruction in drill and ceremony, nuclear, biological and chemical warfare,

practical land navigation, orienteering, and introduction to combat troop leading procedures. Physical fitness training and laboratory required.

Music

MUC1201

Composition 1

2 credits

A two semester sequential course introducing the basic elements and construction blocks of a musical composition and analysis. In addition, students will be expected to compose original short pieces as well as have them performed in a composition recital at the end of the semester. (2 hour lecture)

MUC1202

Composition 2 2 credits

A two semester sequential course introducing the basic elements and construction blocks of a musical composition and analysis. In addition, students will be expected to compose original short pieces as well as have them performed in a composition recital at the end of the semester. (2 hour lecture)

MUC2001

Experimental Composition 3 credits Experience with 20th century compositional techniques through listening, analysis, composition, and performance. May be repeated for credit by permission of the instructor. Prerequisite: MVK 1111. (3 hrs. per week)

MUC2101

Composition Skills 3 2 credits

This course is a continuance of the composition workshop at a more advanced level. Students receive private lessons in music composition. Students are encouraged to apply their theoretical skills to a diverse media, including writing for a variety of small ensembles. This will culminate into a mini recital at the end of the term which will also help prepare the student to effectively coordinate and organize performances of his or her own works in front of an academic and general audience. In the process the student learns to work with a variety of performers and appreciate exposure and feedback from a diverse group of people. (2 hour lecture)

MUC2102

Composition Skills 4 2 credits

This course is a continuance of Composition Skills 3 at a more advanced level. Students receive private lessons in music composition. Students are encouraged to apply their theoretical skills to a diverse media, including writing for a variety of small ensembles. This will culminate into a mini recital at the end of the term which will also help prepare the student to effectively coordinate and organize performances of his or her own works in front of an academic and general audience. In the process the student learns to work with a variety of performers and appreciate exposure and feedback from a diverse group of people. (2 hour lecture)

3 credits

0**0** 2008-10 CATALOG

MUC2311

Electronic Music 1 3 credits

This course is designed to provide students with hands-on experience of sampling, analysis, synthesis, resynthesis procedures, advanced digital composition and arranging. Prerequisite: MUM 2623C or permission of instructor. Special fee. (2 hour lecture; 2 hour

MUC2312

Electronic Music 2 3 credits

This course is designed to provide music students further study in electronic music synthesis and sound design in musical composition. Emphasis will be placed on the use of computer software voice editing tools in both learning and exploring synthesis and voice architectures. (3 hrs. per week)

MUE1430

Voice Techniques 1 credit

Class instruction designed to provide basic performance and teaching skills in voice or instruments from each area. (2 hrs. per week)

MUE1440

String Techniques 1 credit

Class instruction designed to provide basic performance and teaching skills in voice or instruments from each area. (2 hrs. per week)

MUE1450

Woodwind Techniques 1 credit

Class instruction designed to provide basic performance and teaching skills in voice or instruments from each area. (2 hrs. per week)

MUE1460

Brass Techniques 1 credit

Class instruction designed to provide basic performance and teaching skills in voice or instruments from each area. (2 hrs. per

MUE1470

Percussion Techniques 1 credit

Class instruction designed to provide basic performance and teaching skills in voice or instruments from each area. (2 hrs. per week)

MUH2017

Contemporary Jazz

3 credits

An in-depth study of selected contemporary jazz artists and their musical contributions, including the distinct styles of jazz which have been influential in the development of this American art form. (3 hour lecture)

MUH2111

Survey of

Music History 1 3 credits

An introduction to the history of musical styles from antiquity through the Baroque period by the examination of representative literature. (3 hour lecture)

MUH2112

Survey of Music History 2 3 credits An introduction to the history of musical

styles form the Baroque period trough the present by the examination of representative literature. Prerequisite: MUH 2111. Special fee. (3 hour lecture)

MUL1010

Music Appreciation 3 credits

The development of the various styles, forms, and idioms, in music. The emphasis is given to the student's ability to understand and enjoy music. (3 hour lecture)

MUL2380

Jazz and

Popular Music in America 3 credits A survey of the development of popular and

jazz music with an emphasis on musical styles and outstanding artists. (3 hour lecture)

Survey of Music History 3 3 credits

A survey of the great symphonies from the end of the seventeenth century to the present. Full scores will be examined and outstanding recorded performances will be heard in their entirety. Prerequisite: MUH 2112. (3 hour lecture)

MUL2661

Survey of Music History 4 3 credits

A survey of the great operas form the Baroque period to the present. Full scores will be studied and outstanding recorded performances will be seen and heard in their entirety. Prerequisite: MUL 2500. (3 hour lecture)

MUM1622L

Sound Reinforcement and Fundamentals

Laboratory 1 credit

This course is designed to provide students with hands-on experience in conjunction with music school performance activities. Corequisite: MUM 1662. (2 hour lab)

MUM1662

Sound Reinforcement

Fundamentals 3 credits Sound reinforcement fundamentals is a course

designed to provide students with background in live sound reinforcement, concert sound practices, and general PA work associated with sound engineering. Corequisite: MUM 1622L. (3 hour lecture)

MUM1949

Co-op Work

Experience 1: MUM 3 credits

This course is designed to provide students with training in their chosen field of study (sound engineering or related area) through on-the-job work experience. Students are graded on the basis on documentation of learning acquired as reported by student and employer. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Prerequisite: Cooperative Education Office approval. (3 hour lecture and field experience)

MUM2030

Commercial Music

Performance

A performance experience with concentration on repertoire, style and management of commercial engagements. Includes transposition, harmonization and show reading. Prerequisite: MUT 1112 or permission of instructor. May be repeated for credit. (3 hrs. per week)

MUM2600

Sound Recording 1 3 credits

An introduction to techniques, practices and procedures in making eight-track recordings. The student will gain experience with acoustical balancing, editing and over-dubbing in a wide variety of sound situations. Corequisite: MUM 2600L. (3 hour lecture)

MUM2600L

Sound Recording 1 Lab 1 credit

Participation in MUM 2600L offers students directed hands-on experience coinciding with lectures in MUM 2600. Corequisite: MUM 2600. Special fee. (2 hour lab)

MUM2601

Sound Recording 2 3 credits

This course explores advanced multi-track recording skills and audio production techniques. Emphasis is on mixing board skills, microphone techniques, use of outboard equipment and live 2 track recording. Prerequisite: MUM 2600. (3 hour lecture)

MUM2601L

Sound Recording 2 Lab 1 credit

Corequisite for MUM 2601. Advanced Sound Recording. Participation in MUM 2601L offers students directed hands-on experience paralleling lectures in MUM 2601. Corequisite: MUM 2601. Special fee. (2 hour lab)

MUM2603

Basic Audio

Writing Laboratory 2 credits

This course covers soldering and wiring of audio cables, the use of basic electronic instruments. This course includes construction of electronic projects. (4 hour lab)

MUM2604

Multi-Track Mixdown

1 credit This course deals with the application of

signal processing gear to multi-track master recording mixdown to 2 track stereo mastering machines; includes editing and packaging. Prerequisites: MUM 2600, 2600L. (2 hour lab)

MUM2605

(1 hour lecture)

Multi-Track Production

Techniques 1 Multi-track production technique offers students with a background in multi-track recording an opportunity to sharpen their skills in recording, mixdown editing, and audio production. Prerequisites: MUM 2600, 2600L. Must precede MUM 2606 and 2607.

1 credit



MUM2606

Multi-Track Production

Techniques 2 1 credit Multi-track production technique offers students with a background in multi-track recording an opportunity to sharpen their skills in recording, mixdown editing, and audio production. Prerequisites: MUM 2600,

2600L, 2605. (1 hour lecture)

MUM2607

Multi-Track Production

Techniques 3 1 credit Multi-track production technique offers students with a background in multi-track recording an opportunity to sharpen their skills in recording mixdown editing, and audio production. Prerequisites: MUM 2600, 2600L, 2605, 2606. (1 hour lecture)

MUM2623C

MIDI Electronic

Music 1 2-3 variable credits

This course is designed to acquaint music students with basic applications of Musical Instrument Digital Interface (MIDI) for the purpose of composition and performance and learning pre-production concepts with multi-track recording studio. Emphasis will be placed on keyboards, outboard gear, drum machines, and computer-assisted operations. Special fee. (1-2 hour lecture; 2 hour lab)

MUM2624C

MIDI-Electronic Music 2 2-3 variable credits

This course is designed to provide music students further study in the application of the Musical Instrument Digital Interface (MIDI). Emphasis will be placed on advanced techniques in sequencing, routing, synchronization, composition and arranging. Prerequisite: MUM 2623C. Special fee. (1-2 hour lecture; 2 hour lab)

MUM2640L

Multi-Track Mixdown

Techniques 1 credit

This course deals with the application of signal processing gear to multi-track master recording mixdown to 2 track stereo mastering machines includes editing and packaging. Prerequisites: MUM 2600, 2600L. Laboratory fee. (2 hour lab)

MUM2700

Music Business 1 3 credits

The fundamentals, guidelines and the use of copyright law, contracts, agencies and management, publishing, song writing, recording production and marketing. Prerequisite: One year of college-level music study or equivalent. Corequisite: MUM 2703. Special fee. (3 hour lecture)

MUM2702

Music Business 2-Careers 3 credits

A systematic look at career options in the Music Industry. Topics discussed include record promotion, marketing, distribution, music publishing, working in the local music industry, radio and television, film scoring,

advertising, jingle production, teaching as a business, music merchandising, arts administration, working in the national and international scene, live performance, and recording agreements. Students will develop a written business plan for their own music business enterprise and write their resumes. This course will prepare the student for the Music Business Internship. Special fee. Corequisite: MUM 2704. (3 hour lecture).

MUM2703

Music Business 3-Computer 3 credits

This course will provide an overview, and hands-on experience, with a wide variety of computer-based music technology and cross-platform software applications used within the Music Business environment. Software studies include Microsoft Word (wordprocessing), Microsoft Excel (spreadsheet), Microsoft PowerPoint (presentation), and Adobe Photoshop (scanning, photo touchup). Students will present projects in class. Prerequisite: Basic computer experience with the Macintosh and/or Windows 95 operating systems. Special fee. (6 hour lab)

MUM2704

Music Business

4-Computer Applications 3 credits

This course will provide an overview, and hands-on experience, with computer-based music technology and cross-platform software applications used within the Music Business environment. Software studies include Adobe Photoshop, Adobe PageMaker (page layout), Quicken (financial record keeping), and Adobe PageMill (Web page development). Students will create their own Web site, useful for promotion and networking in their own Music Business enterprise. Students will present projects in class. Special fee. Prerequisite: MUM 2703. (6 hour lab)

MUM2945

Music Business 5 - Internship 3 credits

Music Business students will gain music industry experience in an internship which offers a varied, practical, and challenging learning experience. The internship will require a minimum of 20 hours per week of work, for on-the-job training, and will be supervised by a sponsor from the company and the coordinator of the Music Business program. Prerequisites: MUM 2702, 2703, 2704 and/or departmental approval. (3 hour lecture)

MUM2949

Co-op Work

Experience 2: MUM 3 credits

This course is designed to continue training for a second term in a student's field of study through work experience in sound engineering or related area. Students are graded on the basis on documentation of learning acquired as reported by student and employer. All students must contact the Cooperative Education Office to obtain registration approval. Prerequisite: Cooperative Education Office approval and completion of MUM 1949 Co-op Work Experience. (3 hour lecture and field experience)

MUN1120

Concert Band 1-3 variable credits

The opportunity for performing concert band literature through participation in the College Band. Emphasis is on music originally composed for bands. It may be repeated for credit. (2-6 hour lab)

MUN1210

Symphony

Orchestra 1-3 variable credits

Experience in performing and reading orchestra literature through participation in the College orchestra. This course is open to all students. May be repeated for credit. (2-6 hour lab)

MUN1310

College Choir

1 credit

An opportunity for participation in the College choir. Repertoire includes a wide range of music literature from various periods. This course is open to all students. May be repeated for credit. (3 hrs. per week)

MUN1340

Chamber Singers

1 credit

An opportunity for talented singers to study and perform the smaller choral works, with special emphasis on the madrigal. This course is open to all students with the permission of the instructor. May be repeated for credit. (3 hrs. per week)

MUN1391

Gospel Ensemble

1 credit

Provides an opportunity to study and perform music of Black composers with emphasis placed on contemporary gospel idioms. This course is open to all students with the permission of the instructor. May be repeated for credit. (3 hrs. per week)

MUN1420

Chamber Music,

Woodwind Ensemble

1-3 variable credits

A performing group introducing students to literature for small woodwind ensembles. Chamber music from baroque to modern is covered. This course is open to all students with the permission of the instructor. May be repeated for credit. (3-9 hrs. per week)

MUN1430

Chamber Music,

Brass Ensemble 1-3 variable credits

A performing group providing experience with brass literature from the five major periods. This course is open to all students with the permission of the instructor. May be repeated for credit. (3-9 hrs. per week)

MUN1440

Percussion

Ensemble 1-3 variable credits

An opportunity for percussion majors to gain experience in ensemble playing. Open to all percussion students with the permission of the instructor. May be repeated for credit (3-9 hrs. per week)

1 credit

00 2008-10 CATALOG

MUN1460 Chamber Music, Strings and

Mixed Ensemble 1-3 variable credits The performance of ensemble literature involving strings or other instruments in combination with strings. Particular attention given to literature of the five major periods. Open to all students with the permission of the instructor. May be repeated for credit. (3-9 hrs. per week)

MUN1480

Guitar Ensemble 1-3 variable credits Extended rehearsal schedule provides acquisition of specialized ensemble performance techniques. Literature includes classical and popular. May be repeated for credit or taken for variable (1-3) credit by permission of instructor. (3-9 hrs. per week)

MUN1710

Jazz Workshop 1-3 variable credits A course providing the opportunity for performing both modern big-band jazz as well as experience in smaller combo groups. This course is open to all students with permission of the instructor. May be repeated for credit. (3-9 hour lab)

MUN1720 Vocal Jazz/Pop **Ensemble**

1 credit The study and performance of jazz and commercial music for vocal ensemble, including improvisation. May be repeated for credit. (3 hrs. per week)

MUN2030

1 credit Performance Lab Lab held in conjunction with weekly concert hour performance. This course is designed to provide music majors with the varied musical experiences necessary to broaden a musician's background. May be repeated for credit. (1 hour lecture)

MUN2341

Vocal Ensemble 2-3 variable credits An in-depth performance experience including classical and popular choral literature. Extensive public performance schedule provides professional training. Prerequisite: permission of instructor. May be repeated for credit. (7.5 hour lab)

MUN2410

String Ensemble 2-3 variable credits Extended rehearsal schedule provides acquisition of specialized ensemble performance techniques. Literature includes classical and popular. May be repeated for credit. By permission of instructor. (7.5 hour lab)

MUN2473

Early Music Consortium 1 credit The performance of chamber music to intro-

duce the instruments, literature, styles, and performance practices of the music of the Middle Ages, Renaissance, and Baroque periods. Enrollment requires the instructor's permission and selectivity is dependent upon the instrumentation required and the instruments available. Prerequisite: by audition or permission of instructor. May be repeated for credit. (3 hrs. per week)

MUN2711

Jazz Ensemble 2-3 variable credits A performing group providing advanced skill in reading and interpreting jazz literature. Prerequisite: Permission of instructor. May be repeated for credit. (7.5 hour lab)

MUN2712

Studio Jazz 1 credit

The class will rehearse standard and original tunes commonly played by small jazz ensembles. The student will develop the basic skills required of a musician performing with such a group, and will develop an understanding of the musical concepts involved in the performance of this style of music. A small ensemble would consist of a rhythm section plus 1-4 horns. The class will perform jazz tunes including, but not limited to, those based on the 12-bar blues form, I Got Rhythm chord changes, II-V-I chord changes, and the modes of major and minor scales. Concepts will include the various approaches to soloing, the use of chord substitutions, chord-scale relationships, playing in correct rhythmic time, and the use of dynamics and rhythmic variation. Group concepts discussed will include rhythm section function, musical interplay between soloist and rhythm section, and the creation of introductions, interludes, and endings. May be repeated for credit. (3 hour lecture)

Opera Workshop 1-3 variable credits The study and performance of scenes from standard operas and musical comedies with special attention to the fundamentals of stage movement, acting, and characterization as related to musical production. This course is open to all students. May be repeated for credit. (3-9 hour lab)

MUS1211

Diction in

Singing 1 2-3 variable credits Diction in Singing 1 will introduce the student to the International Phonetic Alphabet and instruct the student to the proper diction for English to the standard vocal repertoire. Emphasis will be placed on practical application through actual performances by students of assigned and individually selected songs. (2-3 hour lecture)

MUS1241 Diction in

2-3 variable credits Singing 2

Diction in Singing 2 will introduce the student to the International Phonetic Alphabet and instruct the student in the proper diction for Italian in the standard Vocal Repertoire. Emphasis will be placed on practical application through actual performance by students of assigned and individually selected songs. Prerequisite: MUS 2231. (2-3 hour lecture)

MUS1810

Movement Techniques

for Singers Singers will explore a variety of metric and rhythmic patterns kinesthetically while vocalizing. The various qualities of musical language will be explored through movement and gesture. Students will isolate different body parts and coordinate these in multirhythmic choreography. May be repeated for credit. (1 hour lecture)

MUS1935

Piano Seminar 1-3 variable credits Extended rehearsal schedule provides acquisition of specialized ensemble and accompanying performance techniques. Literature includes classical and popular. May be repeated for credit or taken for variable (1-3) credits by permission of instructor. (7.5 hrs. per week)

MUS2334

Basic Multi-Track Tape Recording &

Studio Techniques 3 credits

This course provides instruction for composers and performers using basic recording studio equipment to produce their own musical recordings. Emphasis will be placed on line level monitoring and recording procedures in MIDI sequencing production. Prerequisites: MUC 2211 and MUM 2623C or permission of instructor. (2 hour lecture; 2 hour lab)

MUT1001

3 credits Theory

Basic music reading, notation, scales, intervals, triads, keys, rhythm, and meter. For students with little or no previous musical experience. Corequisite: MUT 1003. (3 hour lecture)

MUT1003

Basic Theory

Laboratory 1-3 variable credits The development of basic aural skills through sightsinging and ear training exercises. Corequisite: MUT 1001. (2-6 hrs. per week)

MUT1111

Theory 3 credits

The techniques of writing four-part chord progressions using root position and inversions of the primary and secondary triads and the dominant and supertonic seventh; also, non-harmonic tones, melodic writing, and an introduction modulation. Prerequisite: MUT 1001 for 1111 or passing score on departmental placement exam; MUT 1111 for 1112; corequisites: MUT 1241-1242. (3 hour lecture)

MUT1112

Theory 3 credits

The techniques of writing four-part chord progressions using root position and inversions of the primary and secondary triads and the dominant and supertonic seventh; also, non-harmonic tones, melodic writing, and an introduction modulation. Prerequisite: MUT 1001 for 1111 or passing score on departmental placement exam; MUT 1111 for 1112; corequisites: MUT 1241-1242. (3 hour lecture)



MUT1241

Sightsinging &

Ear Training 1 Year 1-2 variable credits The development of aural skill by means of rhythmic and melodic dictation and sightsing-

ing. Prerequisite: MUT 1241 for 1242; corequisites: MUT 1111, 1112. (2-4 hrs. per week)

MUT1242 Sightsinging &

Ear Training 2 Year 1-2 variable credits The development of aural skills by means of rhythmic and melodic dictation and sightsinging. Prerequisite: MUT 1241 for 1242; corequisites: MUT 1111, 1112. (2-4 hrs. per week)

MUT1271 **Music Theory**

& Ear Training 1 3 credits

The purpose of this course is to develop the student's ability to recognize and understand the basic materials and processes of music. This is an accelerated course in the fundamentals of music. Training is provided in the visual and aural recognition of rhythms, scales, intervals and triad qualities. Rhythmic and melodic dictation and sightsinging develop the student's aural skills. Basic keyboard training is also provided. Music listening skills and knowledge of the styles of various historical periods are also covered. (3 hour lecture)

MUT2116

Theory 3 credits

The continuation of modulation and the presentation of diatonic sevenths, secondary dominants, altered chords, augmented and Neapolitan sixths; melodic and harmonic analysis of selected works; ninth, eleventh, and thirteenth chords, and instrumental part writing. Prerequisites: MUT 1112 for 2116; MUT 2116 for 2117; corequisites: MUT 2246, 2247. (3 hour lecture)

MUT2117

Theory 3 credits

The continuation of modulation and the presentation of diatonic sevenths, secondary dominants, altered chords, augmented and Neapolitan sixths; melodic and harmonic analysis of selected works; ninth, eleventh, and thirteenth chords, and instrumental part writing. Prerequisites: MUT 1112 for 2116; MUT 2116 for 2117; corequisites: MUT 2246, 2247. (3 hour lecture)

MUT2238

Introduction to

Jazz Keyboard Harmony 1 credit Jazz harmonic progression as related to music arranging. Includes jazz harmonization of melodic lines, chord symbol interpretation

and chord construction. Prerequisite: MVK 1111 or permission of instructor; corequisite: MUT 2351. Special fee. (2 hrs. per week)

MUT2239

Jazz Keyboard

Harmony 2 1 credit

Experience with extended and altered harmonic progression. Will include harmonic analysis and bitonal structures. Prerequisite: MUT 2238; corequisite: MUT 2352. (2 hrs. per week)

MUT2246

Sightsinging and

1-2 variable credits Ear Training 1 Develops aural and visual skills by means of rhythmic, melodic and harmonic dictation and sightsinging. Emphasis is on chromatic materials. Prerequisites: MUT 1242 for 2246, MUT 2246 for 2247; corequisites: MUT 2116, 2117. (2-4 hrs. per week)

MUT2247

Sightsinging and

Ear Training 2 1-2 variable credits Develops aural and visual skills by means of rhythmic, melodic and harmonic dictation and sightsinging. Emphasis is on chromatic materials. Prerequisites: MUT 1242 for 2246, MUT 2246 for 2247; corequisites: MUT 2116, 2117. (2-4 hrs. per week)

MUT2272

Music Theory

& Ear Training 2 3 credits

This course is a continuation of Music Theory 1 with an emphasis on conventional harmonic practice. Traditional four-part writing in the styles of the 18th and 19th centuries are covered. Examples from a variety of media are given. Creative expression is emphasized with students providing their own compositions to demonstrate musical concepts. Performance at the keyboard of simple progressions and improvisation using pentatonic and/or whole-tone scales are objectives of this course. Sight-singing and ear training are continued. (3 hour lecture)

MUT2276

Music Theory

3 credits & Ear Training 3

This course is a continuation of PAVAC Music Theory 1 & 2. Emphasis is placed on simple binary and ternary forms and sonata-allegro form. Analysis and use of more complex harmonies including extended chords, augmented chords, and borrowed chords is emphasized. A hands-on approach is used with students performing exercises at the keyboard and on their own instruments. Original composition is expected from all students. Extensive ear-training and sight-singing work is included in the course. (3 hour lecture)

MUT2277

Music Theory

& Ear Training 4 3 credits

This course is a continuation of Music Theory 1, 2, and 3. It is intended for students at an advanced level. Emphasis is placed on understanding of formal organization in works from the 16th through 20th centuries. Contemporary compositional devices are studied through analysis, composition, sightsinging, and at the keyboard. Students will learn the basics of conducting techniques. (3 hour lecture)

MUT2351

Introduction to

Popular Music Arranging 3 credits Provides basic experience with instrumental, ranges, transpositions, two- and three-part writing. Prerequisite: MUT 1112 or permission of instructor; corequisite: MUT 2238. (3 hrs. per week)

MUT2352

Popular Music

3 credits

Arranging 2 A continuation of Introduction to Popular Music Arranging with the addition of four-, five- and six-part writing. Concentration on scoring techniques. Prerequisite: MUT 2351; corequisite: MUT 2239. (3 hrs. per week)

MUT2641

Introduction to

Jazz Improvisation 1 3 credits

A performance experience with concentration on scales, rhythmic patterns, chord progression, and blues forms. Prerequisite: MVK 1111 or permission of instructor; corequisite: MUT 2351. Special fee. (3 hrs. per week)

MUT2642

Jazz Improvisation 2 3 credits

A continuation of Introduction to Jazz Improvisation 1 with the introduction to modal improvisation, jazz structures, and complex harmonic progressions. Prerequisite: MUT 2641 (3 hrs. per week)

Music - Applied

Principal Instrument each, 2 credits Private instruction in a principal instrument or voice. Required each term for music majors. Courses in each area must be taken in sequence. Prerequisite: Departmental approval. Special fee. May be repeated for credit. (1 hr. per week)

FIRST YEAR

MVB1311	Trumpet
MVB1312	French Horn
MVB1313	Trombone
MVB1314	Baritone Horn
MVB1315	Tuba
MVJ1310	Jazz Piano
MVJ1311	Jazz Voice
MVJ1312	Jazz Violin
MVJ1313	Jazz Guitar
MVJ1314	Electric Bass
MVJ1315	Jazz Flute
MVJ1316	Jazz Saxophone
MVJ1317	Jazz Trumpet
MVJ1318	Jazz Trombone
MVJ1319	Jazz Percussion Drum Set
MVK1311	Piano
MX/IZ1212	Harnsichard (not reported

Harpsichord (not repeatable)

Harp

MVK1312 MVK1313 Organ MVP1311 Percussion MVS1311 Violin MVS1312 Viola MVS1313 Cello MVS1314 Bass

MVS1315

🛚 2008-10 CATALOG

MVS1316	Guitar
MVV1311	Voice
MVW1311	Flute
MVW1312	Oboe
MVW1313	Clarinet
MVW1314	Bassoon
MVW1315	Saxophone
	_

SECOND YEAR		
MVB2321	Trumpet	
MVB2322	French Horn	
MVB2323	Trombone	
MVB2324	Baritone Horn	
MVB2325	Tuba	
MVJ2320	Jazz Piano	
MVJ2321	Jazz Voice	
MVJ2322	Jazz Violin	
MVJ2323	Jazz Guitar	
MVJ2324	Electric Bass	
MVJ2325	Jazz Flute	
MVJ2326	Jazz Saxophone	
MVJ2327	Jazz Trumpet	
MVJ2328	Jazz Trombone	
MVJ2329	Jazz Percussion Drum Set	
MVK2321	Piano	
MVK2322	Harpsichord (not repeatable)	
MVK2323	Organ (not repeatable)	
MVP2321	Percussion	
MVS2321	Violin	
MVS2322	Viola	
MVS2323	Cello	
MVS2324	Bass	
MVS2325	Harp	
MVS2326	Guitar	
MVV2321	Voice	
MVW2321	Flute	
MVW2322	Oboe	
MVW2323	Clarinet	
MVW2324	Bassoon	
MVW2325	Saxophone	

Secondary Instrument each, 1 credit

Private instruction in a secondary instrument or voice. Required for applied majors, option for music education majors. Courses in each area must be taken in sequence. Special fee. May be repeated for credit. (1/2 hr. per week)

DIDOW XZE A D			
FIRST YEAR			
MVB1211	Trumpet		
MVB1212	French Horn		
MVB1213	Trombone		
MVB1214	Baritone Horn		
MVB1215	Tuba		
MVJ1210	Jazz Piano		
MVJ1211	Jazz Voice		
MVJ1212	Jazz Violin		
MVJ1213	Jazz Guitar		
MVJ1214	Electric Bass		
MVJ1215	Jazz Flute		
MVJ1216	Jazz Saxophone		
MVJ1217	Jazz Trumpet		
MVJ1218	Jazz Trombone		
MVJ1219	Jazz Percussion Drum Set		
MVK1211	Piano		
MVK1212	Harpsichord (not repeatable)		
MVK1213	Organ		
MVO1214	Recorder (not repeatable)		

MVP1211 Percussion

MVS1211 Violin

MVS1212	Viola
MVS1213	Cello
MVS1214	Bass
MVS1215	Harp
MVS1216	Guitar
MVV1211	Voice
MVW1211	Flute
MVW1212	Oboe
MVW1213	Clarinet
MVW1214	Bassoon
MVW1215	Saxophone

SECOND YEAR MVB2221 Trumpet

MVB2222	French Horn
MVB2223	Trombone
MVB2224	Baritone Horn
MVB2225	Tuba
MVJ2220	Jazz Piano
MVJ2221	Jazz Voice
MVJ2222	Jazz Violin
MVJ2223	Jazz Guitar
MVJ2224	Electric Bass
MVJ2225	Jazz Flute
MVJ2226	Jazz Saxophone
MVJ2227	Jazz Trumpet
MVJ2228	Jazz Trombone
MVJ2229	Jazz Percussion Dru
MVK2221	Piano

ım Set

MVK2221 Piano MVK2222 Harpsichord MVK2223 Organ MVP2221 Percussion MVS2221 Violin MVS2222 Viola MVS2223 Cello MVS2224 Bass

MVS2225 Harp MVS2226 Guitar MVV2221 Voice

MVW2221 Flute MVW2222 Oboe

MVW2223 Clarinet MVW2224 Bassoon

MVW2225 Saxophone

MVK1111

Class Piano 1 1 credit

The secondary area of piano with emphasis on sight-reading, melody harmonization and ensemble playing. Required of all music students except piano majors. May be repeated for credit. (2 hrs. per week)

MVK1112

Class Piano 2 1 credit

A continuation of MVK 1111. Prerequisite MVK 1111 or placement by exam. (2 hr. lab)

MVK2121

Class Piano 3

Further development of elementary keyboard techniques and musicianship, enhancing skills previously developed: Prerequisite MVK 1112 or placement by exam. (2 hr. lab)

MVK2122

Class Piano 4 1 credit

A continuation of MVK 2121. Prerequisite MVK 2121 or placement by exam. May be repeated for credit. (2 hr. lab)

Pre-Applied Music each, 2 credits Private instrumental or vocal instruction for those music students who are not prepared

to perform at the college music major level. Special fees. (1 hr. per week)

MVB1011 Pre-Applied Trumpet

MVB1012	Pre-Applied French Horn
MVB1013	Pre-Applied Trombone
MVB1014	Pre-Applied Baritone Horn
MVB1015	Pre-Applied Tuba
MVJ1010	Pre-Applied Jazz Piano
MVJ1011	Pre-Applied Jazz Voice
MVJ1013	Pre-Applied Jazz Guitar
MVJ1014	Pre-Applied Jazz Electric Bass
MVJ1016	Pre-Applied Jazz Saxophone
MVJ1017	Pre-Applied Jazz Trumpet
MVJ1018	Pre-Applied Jazz Trombone
MVJ1019	Pre-Applied Jazz Percussion
MVK1011	Pre-Applied Piano
MVK1012	Pre-Applied Harpsichord
MVK1013	Pre-Applied Organ
MVP1011	Pre-Applied Percussion
MVS1011	Pre-Applied Violin
MVS1012	Pre-Applied Viola
MVS1013	Pre-Applied Cello
MVS1014	Pre-Applied String Bass
MVS1015	Pre-Applied Harp
MVS1016	Pre-Applied Guitar
MVS1017	Pre-Applied Bass Guitar
MVW1011	Pre-Applied Flute
MVW1012	Pre-Applied Oboe
MVW1013	Pre-Applied Clarinet
MVW1014	Pre-Applied Bassoon
MVW1015	Pre-Applied Saxophone
MVV1011	Pre-Applied Voice

MVV1111

Voice Class 1 credit

Designed for non-music students providing class instruction in the elective area of voice. Prerequisite: MUE 1430. May be repeated for credit. (2 hrs. per week)

Nuclear Medicine

NMT1002L

Introduction to

Nuclear Medicine Laboratory The student will be introduced to the fundamentals of clinical nuclear medicine by practicing skills learned in NMT1300 Radiation Protection and NMT1750 Nuclear Medicine Procedures 1 before going to the hospital and/or clinical site for actual patient interaction. The student will be introduced to radiopharmacology, radiopharmaceutical chemistry, characterization of radiopharmaceuticals, localization, and FDA approval process. Prerequisites: CHM 1033, 1033L (2 hour Lab)

NMT1300

Radiation Protection 2 credits

This course will include all local, state and federal regulations related to Nuclear Medicine, the appropriate protection procedures to limit exposure, the performance of area surveys and wipe tests, the proper decontamination procedures, the disposal of radioactive waste procedures, and personnel monitoring of radiation exposure. Corequisites: NMT1002L, 1750. (2 hour lecture)



NMT1750

Nuclear Medicine Procedures 1 2 credits
This course will include the imaging parameters necessary to obtain images for the
basic procedures done in a nuclear medicine department. The imaging procedures
included in this course are related to the
following systems: skeletal, central nervous,
cardiovascular genitourinary, respiratory, and
gastrointestinal. Instrumentation necessary
to produce the required images as well as
patient management during the procedures
will be addressed. Prerequisites: BSC 2085,
2085L, 2086, 2086L, CHM1033, 1033L; coreq-

NMT2040

Nuclear Medicine

Administration 2 credits

uisites: NMT1002L, 1300. (2 hour lecture)

The student will be introduced to the administrative duties required of a nuclear medicine technologist. Some areas that will be covered include patient scheduling, radioisotope ordering; scheduling and testing; communication; patient and clinician satisfaction. Prerequisites: NMT2533, 2400; corequisites: NMT 2751, 2573, 2814C. (2 hour lecture)

NMT2400

Nuclear Medicine

Pharmacology 2 credits

The student will understand how to maintain radiopharmaceutical laboratory records and materials, obtain a generator eluate, prepare radiopharmaceuticals and perform quality control tests, as well as dispose of radioactive waste appropriately. The ordering of pharmaceuticals in appropriate dosage and effective time frames will also be included. Prerequisites: NMT 1300, 1750; corequisites: NMT 2533, 2613, 2804C. (2 hour lecture)

NMT2533

Nuclear Medicine

Instrumentation 2 credits

This course will integrate and correlate the principles of electrical and nuclear physics associated with the operation and calibration of radiation detection devices employed in nuclear medicine. The student will be introduced to the various types of devices that are used to provide information from which the diagnostic images are obtained. Prerequisites: NMT 1002L 1300, 1750, and PHY1004; corequisites: NMT 2613, 2400, 2804C. (2 hour lecture)

NMT2573

Nuclear Medicine QA/QC 2 credits

The student will perform quality control testing of imaging systems; calibrate and operate scintillation counters; calibrate and operate gas-filled detectors; and perform quality assurance testing of routine imaging and assay procedures. Prerequisites: NMT 2533, 2613; corequisites: NMT 1750, 2040, 2814C. (2 hour lecture)

NMT2613

Nuclear Medicine Physics 2 credits

This course includes the basic concepts of atomic, nuclear and radiation physics with an emphasis on the interactions of radiation with matter. Alpha, beta and gamma sources are explained in this course. Prerequisites: MAC 1105, NMT 1002L, and PHY 1004; corequisites: NMT2533, 2400, 2804C. (2 hour lecture)

NMT2751

Nuclear Medicine Procedures 2 2 credits

This course is a continuation of Nuclear Medicine Procedures 1 and will include the imaging parameters necessary to obtain images for the remainder of procedures preformed in a Nuclear Medicine department. Instrumentation necessary to produce the required images as well as patient management during the procedures will be addressed. Prerequisites: NMT 1750, 2804C; corequisites: NMT 2814C, 2573. (2 hour lecture)

NMT2804C

Nuclear Medicine Clinic 1 5 credits

This course will introduce the student to the fundamentals of clinical nuclear medicine primarily through hospital involvement. The student will gain practical experience in a Nuclear Medicine department by performing the principles taught in class. (15 hour clinic)

NMT2814C

Nuclear Medicine Clinic 2 7 credits

This course is a continuation of NMT 2804C Clinic 1 and will provide the student the opportunity to participate in the fundamentals of clinical nuclear medicine in the hospital involvement. The student will gain practical experience in a Nuclear Medicine department by performing the principles taught in class. (21 hour clinic)

NMT2824C

Nuclear Medicine Clinic 3 7 credits

This is the final course in the series of three clinical courses. In this course, the student will apply all didactic competencies in the Nuclear Medicine department setting. The student will be expected to perform all procedures from the two Nuclear Medicine Procedures courses with minimal supervision. The ARRT Competency Requirements must be completed in this course. Prerequisites: NMT 1750, 2751, 2804C, 28140. (21 hour clinic)

NMT2932

Nuclear Medicine Seminar 2 credits

This course will incorporate all theory related to the production of a nuclear medicine image. How radiation protection, instrumentation, physics, pharmacology, and Quality Assurance/Quality Control interrelate will be presented. Prerequisites: NMT 1300, 2533, 2573; corequisites: 2824C. (2 hour lecture

Nursing

NUR1002

Transition to

Professional Nursing 6 credits

This course introduces the student with selected prior health care experience and education to the profession of nursing, the roles basic to nursing practice, nursing process and the implementation of health-promoting activities to meet patient needs. Nursing care of the adult patient with moderate alterations in health will be explored within a body systems framework. The nurse's role in meeting the short and long term needs of the patient and community through preventive, therapeutic and palliative care will be presented. Prerequisites: BSC 2085, 2085L, 2086, 2086L, CHM 1033, 1033L, ENC 1101, HSC 0003, PPE 1005. Corequisites: NUR 1002L 1141, MCB 2013. (6 hour lecture)

NUR1002L

Transition to Professional

Nursing Laboratory 4 credits

This course provides opportunities for the student with selected prior health care experiences and education to apply the nursing process. The emphasis is on health promoting activities to meet patient needs in a variety of settings including in-patient and community-based experiences. Students will be encouraged to actively participate in projects emphasizing preventive aspects of nursing care. Selected skills related to adult health nursing will be presented. Prerequisites: BSC2085, 2085L, 2086, 2086L, CHM1033, 1033L, ENC1101, HSC0003, PHI2604, PPE1005; corequisites: NUR1002, 1142, MCB2013. (12 hour lab)

NUR1025

Fundamentals of Nursing 3 credits

This course provides an introduction to the profession of nursing, the roles basic to nursing practice, nursing process, and how nurses are involved in health promoting activities to meet client needs. Prerequisites: BSC2085, 2085L, 2086, 2086L, CHM 1033, 1033L, ENC1101, HSC0003 and PHI2604; corequisites: NUR 1142, 1213C and PPE1005. (3 hour lecture)

NUR1025C

Fundamentals of

Nursing Skills Lab 2 credits

This course provides opportunities for the explanation, demonstration, and practice of care provider activities essential to the basic practice of nursing. Learning experiences are provided in the skills Laboratory. Prerequisites: Program Admission; corequisites: NUR 1025C, 1025L, 1060C, 1142. (1 hour lecture; 2 hour lab)

NUR1025L

Fundamentals of

Nursing Clinical Lab 2 credits

This course provides an introduction to the profession of nursing, the roles basic to nursing practice and opportunities to apply the nursing process in selected clinical experiences. The emphasis is on health promoting activities to meet client needs in a variety of settings including community based experiences. Prerequisites: BSC2085, 2085L, 2086, 2086L, CHM1033, 1033L, ENC1101, HSC0003, PHI2604; corequisites: NUR1025, 1025C, 1060C, 1142. (6 hour clinical/lab)

7 11 1

NUR1060C Adult Health

Assessment 2 credits

This course is designed to provide students with the necessary skills to perform an in-depth nursing history and a complete physical examination on an adult client. The focus will be on clients with minimal or no alterations in their health state. Students will be introduced to and will demonstrate the techniques used in physical examination. Prerequisites: BSC 2085, 2085L, 2086, 2086L, CHM 1033, 1033L, ENC 1101, HSC 0003, PHI 2604; corequisites: NUR 1025, 1025L, 1142. (2 hour lecture)

NUR1141

Nursing Math & Pharmacology

2 credits

Nursing Math & Pharmacology provides instruction about medications and their effects on different body systems. The conceptual and mathematical operations necessary for safe and effective administration of intravenous medications, preparing medications that come in powdered form and adjusting medication administration based on medical protocols will be discussed. Prerequisites: NUR 1025, 1025C, 1025L, 1060C, 1142; corequisites: NUR 1211, 1211L, and 1214C. (2 hour lecture)

NUR1142 Introduction to Nursing

Math & Pharmacology 1 credit

This course introduces basic concepts of medications including history, drug nomenclature, sources of drug information, federal drug laws and standards, classifications of medications, pharmacokinetics, pharmacodynamics, variables affecting medication actions and adverse effects of medications. It also promotes learning the conceptual and mathematical operations necessary for safe and effective administration of oral, topical, and parenteral medications to adults. Application of the nursing process to medication therapy is discussed. Prerequisites: BSC 2085, 2085L, 2086, 2086L, CHM 1033, 1033L, ENC 1101, HSC 0003, and PHI 2604; corequisites: NUR 1025, 1025C, 1025L, 1060C. (1 hour lecture)

NUR1211

Medical-Surgical Nursing 4 credits

This course provides an introduction to the

This course provides an introduction to the nursing care of the adult client. Moderate alterations in a client's health will be explored within a body systems framework. The nurse's role in meeting the short and long term needs of the client and community through preventive, therapeutic and palliative care will be discussed. Prerequisites: NUR 1025, 1025C, 1025L, 1060C, 1142; corequisites: NUR 1211, 1214C. (4 hour lecture)

NUR1211L Medical Surgical Nursing Clinical Lab 4 credits

This course provides students with opportunities to apply advanced concepts of medical surgical nursing. Experiences in both in-patient and community settings will be provided focusing on the nurse's role in meeting the needs of the client, family, and community. Students will be encouraged to actively participate in projects assisting clients in preventive care and maintenance of health. Prerequisites: NUR 1025, 1025C, 1025L, 1060C, and 1142; corequisites: NUR 1141, 1210, 1213C. (12 hour clinical/lab)

NUR1214C

Medical Surgical

Nursing Skills Lab 1 credit

This course provides opportunities for the explanation, demonstration, and practice of skills related to adult health nursing. Learning experiences are provided in the School of Nursing Skills Laboratory. Prerequisites: NUR 1025, 1025C, 1025L, 1060C, 1142; corequisites: NUR 1141, 1211, 1211L. (.5 hour lecture; 1 hour lab)

NUR2211

Advanced Medical–Surgical

3 credits

This course explores the medical surgical nursing care of clients with complex alterations in health. Advanced concepts in medical surgical nursing will be discussed within a body systems framework focusing on the nurse's role in meeting the needs of the client, family, and community. Prerequisites: NUR2310, 2310L, 2420L, 2420L 2520, 2520L, 2680L; corequisites: NUR 2211. (3 hour lecture)

NUR2212L

Advanced Medical-Surgical

Nursing Clinical

This course provides students with opportunities to apply advanced concepts of medical surgical nursing. Experiences in both in-patient and community settings will be provided focusing on the nurse's role in meeting the needs of the client, family and community. Students will be encouraged to actively participate in projects assisting clients in preventive care and maintenance of health. Corequisites: NUR 2211. (9 hour clinical/lab)

NUR2310

Pediatric Nursing 2 credits

This course provides a family centered approach to the nursing care of pediatric clients and their families. The course will focus on the nurse's role on meeting the short and long term needs of the pediatric client, family, and community through preventative, therapeutic and palliative care, with recognition for the multicultural aspects of client needs. Prerequisites: NUR 1141, 1211, 1211L, 1214C; corequisites: NUR 2310L, 2420, 2420L, 2520, 2520L, 2680L. (2 hour lecture)

NUR2310L Pediatric Nursing

Clinical Lab 1 credit

This course allows the student to apply the nursing process to the care of clients in selected pediatric clinical settings. With recognition for cultural diversity, the course focuses on the nurse's role in implementing care to the pediatric client, family, and community through preventive, therapeutic and palliative measures. Prerequisites: NUR 1141, 1211, 1211L, 1214C; corequisites: NUR 2310, 2420, 2420L, 2520, 2520L, 2680L. (3 hour clinical/lab)

NUR2420

Obstetrical Nursing 2 credits

This course provides a family centered approach to the nursing care of obstetrical clients and their families. It involves assessment of the pregnant client, the implementation of caring behaviors for the laboring client, teaching and learning to support the postpartum client, managing care of the newborn and collaboration of care for the high risk client. Prerequisites: NUR 1141, 1210, 1210L, 1213C; corequisites: NUR 2310, 2310L, 2420L, 2520, 2520L, 2610L. (2 hour lecture)

NUR2420L Obstetrical Nursing Clinical Lab

1 credit

This course provides an introduction to obstetrical nursing practice. It allows the students to apply the nursing process to the care of clients in selected obstetrical clinical settings. Prerequisites: NUR 1141, 1211L, 1214C; corequisites: NUR 2310, 2310L, 2420, 2520, 2520L, 2680L. (3 hour lab)

NUR2520

3 credits

Psychiatric Nursing 2 credits

This course provides the student with a theoretical base for providing nursing care to clients with moderate to severe deficits in their mental health. Prerequisites: NUR 1141, 1211, 1211L, 1214C; corequisite: NUR 2310, 2310L, 2420, 2420L, 2520L, 2680L. (2 hour lecture)

NUR2520L Psychiatric Nursing Clinical Lab 2 credits

This course provides the student opportunities to apply concepts of psychiatric nursing. Experiences in both in-patient and community settings will be provided focusing on the nurse's role in meeting the needs of the client, family, and community. Students will be encouraged to actively participate in projects assisting clients in preventative care and maintenance of mental health. Prerequisites: NUR 1141, 1211, 1211L, 1214C; corequisites: NUR 2310, 2310L, 2420, 2420L, 2520, 2680L. (6 hour clinical/lab)

NUR2680L

Community Health

Nursing Lab 1 credit

This laboratory course assists the student to apply knowledge of community resources to the care of childbearing/childrearing families. There is special emphasis on the understanding of cultural influences on health practices and beliefs within the family. Prerequisites: NUR 1141, 1211, 1211L, 1214C; corequisites: NUR 2310, 2310L, 2420, 2420L, 2520. (3 hour lab)

505



NUR2810C

Professional Nursing

Leadership
4-5 variable credits
This course provides the student with the
theoretical and clinical knowledge necessary
for actualization of the role of the registered
professional nurse, with emphasis on delegation and supervision. Prerequisites: NUR
2211, 2212L. (2 hour lecture; 9 hour lab)

NUR3041

Culture in Nursing Practice 3 credits
This course focuses on the use of the nursing process to provide culturally competent health care, including assessing and identifying cultural practices, values and beliefs that affect nursing practice. The student will be introduced to the components of cultural competence, which includes awareness, sensitivity, and brokering interventions. This course will incorporate culturally relevant planning, implementation and evaluation. Minimum grade of C or better required.

Corequisite: NUR 3825 (3 hour lecture)

NUR3069

Advanced Health Assessment 3 credits This course will focus on the assessment of individuals, families, and culturally diverse communities throughout the life span. The course will also include relevant theories, evidenced based practice concepts for the comprehensive assessment and management of health throughout the family life cycle. The course includes lecture, discussion and dem-

course includes lecture, discussion and demonstration of history-taking and an integrated physical assessment. Minimum grade of C or better required. Corequisite NUR 3846. (3 hour lecture)

NUR3165

Nursing Research 3 credits

This course provides a basic understanding of the steps and processes of qualitative and quantitative nursing research, with an emphasis on the development of the basic skills of analyzing research findings and how they can be incorporated and applied to clinical practice. Ethical and theoretical issues will be discussed. Minimum grade of C or better required. Prerequisite: Admission to the program. (3 hour lecture)

NUR3825

Transition to

Professional Nursing 3 credits

This course focuses on the transition of nursing students from an associate degree program to the role of the BSN nursing graduate. The BSN role builds on concepts and experiences previously introduced. The history and evolution of the nursing profession, ethical imperatives, and current trends and issues impacting professional practice in an evolving healthcare delivery environment are foundations for the development of the professional nurse. The role of the BSN prepared graduate focuses on utilization of evidencedbased nursing practices and advanced leadership and management skills in a variety of settings within a global community. Minimum grade of C or better required. Corequisite: NUR 3041. (3 hour lecture)

NUR3846

Foundations of

Professional Nursing 3 credits

This course explores the evolution of professional nursing knowledge and theories. Concepts are analyzed in relation to conceptual theoretical frameworks within Nursing. Students will integrate philosophies and theories in the delivery of healthcare and theories are introduced as a foundation for the delivery of healthcare in a multicultural/global environment. Minimum grade of C or better required. Corequisite: NUR 3069. (3 hour lecture)

NUR4636

Community Health Nursing 3 credits

This course focuses on the holistic aspects of community nursing care applied to diverse global populations across the lifespan. The course introduces students to community nursing practice and formulates a paradigm shift from individual patients to the global community, addressing the history, evolution, theoretical framework, and purpose of community health nursing practice with an introduction to epidemiological principles, concepts of community assessment, health promotion, maintenance and education. The course involves the analysis of current knowledge and practice to illness prevention, health promotion, health restoration, community education and empowerment. Minimum grade of C or better required. Prerequisite: NUR 3069, 3825; corequisite: NUR 4636L. (3 hour lecture)

NUR4636L

Community Health

Nursing Practicum 3 credits

This course focuses on the clinical application of Community Health Nursing Theory. Students will utilize the nursing process in the delivery of healthcare within the community environment. Students will assess the individual, family, and/or community, develop a plan of care, and deliver care to an individual, family and/or community within a multicultural environment. Minimum grade of C or better required. Corequisite: NUR 4636. (144 hour practicum)

NUR4667

Globalization of

Nursing Practice 3 credits

This course focuses on world health issues that influence international health practices with an emphasis on preparing the professional nurse to become a major contributor to the international health care team. The course will include political, economical, social, and demographic issues that affect health care systems of select countries and address the role of nurses in the delivery of global health care. Minimum grade of C or better required Prerequisite: NUR 3069, 3825; corequisite NUR 4827. (3 hour lecture)

NUR4827

Leadership and

Management Theory 3 credits

This is an introductory course to leadership and management concepts and theories needed in today's health care environment. The course focuses on unique and innovative approaches to delegation, decision-making, budgeting, quality improvement, evidence-based practice, and population-based practice. Minimum grade of C or better required. Corequisite: NUR 4667. (3 hour lecture)

NUR4945C

Advanced Concepts

Practicum 3 credits

This course is a capstone of prior learning, including evidenced-based interventions, theoretical concepts, and critical thinking skills, with an emphasis on the application to professional nursing practice. The focus is on multicultural population s which are experiencing physical, psychological, social, or spiritual imbalances. The student, working with a preceptor, will facilitate the delivery of health care to diverse cultures in various specialized settings. Prerequisites: Minimum grade of C or better required. Prerequisites: NUR 4636, 4667. (3 hour lecture)

Nutrition

HUN1012

Nutritional Counseling 3 credits

Basic principles of nutrition of an optimum diet for building and maintaining sound teeth and body tissues. Emphasis is placed on nutritional counseling. (3 hour lecture)

HUN1201

Essentials of Human Nutrition

3 credits

The Essentials of Human Nutrition is a general education course designed to acquaint students with the specific role of carbohydrates, fats, proteins, vitamins, minerals, and water in daily life. This includes a study of the human body systems that manage the breakdown, assimilation, and excretion of nutrients and their metabolic wastes. The course explores the relationships between food and optimal health including physical fitness. The relationships between nutritional imbalances and diseases are studied. (3 hour lecture)

HUN1201L

Essential of

Nutrition Laboratory 1 credit

A laboratory course which accompanies HUN 1201. The course covers fundamental techniques used in the measurement of food quantities, nutrient contents of foods, and serum content of vital nutrients. Laboratory fee. (2 hour lab)

Oceanography

OCE1001

Introduction to

Oceanography 3 credits

The oceans, their nature and extent. The causes and effects of waves and current; biology of sealife; geology of the sea floor, erosion and bottom deposits and related meteorological and economic effects. (3 hour lecture)

MDC 2008-10 CATALOG

OCE1001L

Introduction to

Oceanography Laboratory 1 credit An introduction to principles of ocean basin and sea water with a survey of the origins of oceanic patterns and climatic relationships. (2 hour lab)

OCP3002

Survey of Oceanography 3 credits

This course explores the ocean origin, physical properties, salinity, temperature, sound, radiative properties, heat budget and climatic controls, tides, wind-driven motion, monsoon circulation, El Niño phenomenon, subsurface water masses, oceanic circulation and paleoclimates. This course is designed for upper level students pursuing a BS in Science Education. Prerequisites: GLY 1010, OCE1001; corequisite: OCP 3002L. (3 hour lecture)

OCP3002L

Survey of

Oceanography Laboratory 1 credit A laboratory course designed to give students hands-on knowledge of specific concepts discussed in OCP 3002. (2 hour

Office Technology

OST1100

Beginning Keyboarding 3 credits

This course emphasizes techniques and skills in keyboarding and introduces how to format business papers such as letters, manuscripts and tabulated material. Corequisite: OST 1100L. Special fee. (3 hour lecture)

OST1100L

Beginning Keyboarding

Laboratory 1 credit

This one-credit keyboarding lab will enable students to practice speed and accuracy drills and to complete class problem assignments given in the Beginning Keyboarding class. Special fee. (2 hour lab)

OST1108

Keyboarding Skillbuilding 2 credits

This course emphasizes building speed and accuracy in keyboarding, using proper techniques. Students will pretest, identify individual weaknesses, practice the prescribed drills, develop rhythmic typing skills through the use of tapes, post-test, and compare improvement in accuracy and/or speed. Prerequisite: OST 1100 or knowledge of the keyboard. Special fee. (2 hour lecture)

OST1110

Keyboarding Application 3 credits

This course emphasizes keyboarding speed and accuracy and provides training in the keying and formatting of business correspondence, including letters, memorandums, reports, tables with special features, and miscellaneous documents such as itineraries, news releases, and agendas. Prerequisite: OST

1100 or credit by examination. Corequisite: OST 1110L. Special fee. (3 hour lecture)

OST1110L

Keyboarding Application

Laboratory 1 credit

This one-credit keyboarding lab will enable students to develop keyboarding/formatting production speed and accuracy. Prerequisite: OST 1100 or credit by examination; corequisite: OST 1110. Special fee. (2 hour lab)

OST1141

Keyboarding for Computers 1 credit This course emphasizes techniques and skills in keyboarding. Special fee. (2 hour lab)

OST1330

Business English 3 credits

Business English covers the study of the principles and rules of punctuation, capitalization, spelling, and grammar. The course emphasizes the application of these principles to enable the student to use correct English and to develop good communication skills. Special fee. (3 hour lecture)

OST1601

Machine Transcription 1 3 credits

This course provides an introduction to transcription from audio cassettes using transcribing equipment. Emphasis in this firstlevel transcription class is placed on simultaneously operating equipment and applying grammar, formatting, proofreading, and punctuation skills. Rough draft copies are prepared and proofread before final copies are produced. Pre/corequisites: Students entering this course should have a typing skill of at least 30 words per minute or have successfully completed OST 1100, Beginning Keyboarding and should have knowledge of a word processing software application. The student should also have completed OST 1330, Business English. Special fee. (3 hour lecture)

OST1700

Word Processing Office 1 credit

This entry-level 1 credit course will introduce basic functions of a word processing program currently on the market. This course covers basic functions and simple applications using the word processing program. Special fee. (1 hour lecture)

OST1702

Office Procedures 1 3 credits

This course introduces students to careers in office technology and emphasizes various ways information is electronically processed in today's office environment. Special emphasis is placed on units in career information, business telephone usage, filing, and human relations skills needed to be successful as an office worker. Corequisites: OST 1100, 1100L, 1330. Special fee. (3 hour lecture)

OST1741

Beginning Word Processing 3 credits In this course the student will be learning basic functions using a popular word processing, basic functions, and simple applications using the word processing program. In addition, this course covers the basic functions and information about Microsoft Windows, the disk operating system. The student will also be required to complete lab assignments. Corequisite: OST 1741L. Special fee. (3 hour lecture)

OST1741L

Beginning Word

Processing Laboratory 1 credit This course is a corequisite to the Beginning Word Processing course. In this course the student will be applying basic

Beginning Word Processing course. In this course the student will be applying basic functions using a popular word processing program currently on the market. This course covers theory and definitions of word processing, basic functions, and simple applications using the word processing program. In addition, this course covers the basic functions and information about Microsoft Windows, the disk operating system. Corequisite: OST 1741. Special fee. (2 hour lab)

OST1821

Desktop Publishing

Applications 3 credits

Teaches how to use a desktop publishing software program on a microcomputer system with a mouse. Students will learn how to design different types of publications to include text and graphics for newsletters, flyers, posters, brochures, and booklets or for any other publishing need. No prior design or publishing experience is required. A.S. degree credit only. Prerequisite: OST 1741. Special fee. (3 hour lecture)

OST1851

Spreadsheets for the Office 1 credit

This entry-level 1-credit class emphasizes an introduction to the use of a spreadsheet for microcomputers. The class will provide an understanding of what a spreadsheet is, how it works, and its applications in business will be introduced. Classes are conducted in a laboratory environment where a microcomputer is available for each student. The content of this class will continually change to keep pace with current technology. Special fee. (1 hour lecture)

OST1931

Workshop 1 credit

This one-credit workshop offers students in the Office Administration program the opportunity to learn the concepts, terminology, and basic functions of an office software program. Special fee. (1 hour lecture)

OST2221

Machine Shorthand 1 4 credits

This is the beginning course in machine shorthand. This course emphasizes learning to write the Phoenix theory on the shorthand machine as well as the ability to read rapidly from shorthand notes. The student will be required to write vocabulary words on the shorthand machine and than transcribe them into correct English. Good skills in grammar and spelling are necessary for success in this course. Pre/corequisite: OST 1100. Special fee. (4 hour lecture)



OST2222

Machine Shorthand 2 4 credits

This is the second course in machine shorthand. This course emphasizes reviewing the Phoenix theory on the shorthand machine as well as to continue to increase speed on the shorthand machine. The student will be required to take timed dictation on the shorthand machine and then transcribe on a keyboard utilizing all the skills of a good transcriptionist. Good skills in grammar and spelling are necessary for success in this course. Prerequisite: OST 2221. Special fee. (4 hour lecture)

OST2223

Machine Shorthand 3 3 credits

This is the intermediate course in machine shorthand. This course emphasizes twovoice dictation, jury charge, and literary dictation. The student will be required to take timed dictation on the shorthand machine and then transcribe on a keyboard utilizing all the skills of a good transcriptionist. Good skills in grammar and spelling are necessary for success in this course. Prerequisite: OST 2222 (Machine Shorthand 2) Students entering this course should have earned a minimum of a C grade in Machine Shorthand 2 or the equivalent (passed dictation tests at 80 wpm for three minutes with 97 percent accuracy), should be able to type at least 35 words per minute, and should have good skills in grammar, spelling and punctuation. It is recommended that the student have completed or be enrolled in Keyboarding and Word Processing. Special fee. (3 hour lecture)

OST2224

Machine Shorthand 4 3 credits

This is the fourth course in machine shorthand. This course emphasizes two-voice dictation, jury charge, and literary dictation. The student will be required to take timed dictation on the shorthand machine and then transcribe on a keyboard utilizing all the skills of a good transriptionist. Good skills in grammar and spelling are necessary for success in this course. Prerequisite: OST 2223 (Machine Shorthand 3). Students entering this course should have earned a minimum of a C grade in Machine Shorthand 3 or the equivalent (passed literary dictation at 100 wpm, jury charge dictation at 110 wpm, and testimony of 120 for three minutes with 97 percent accuracy), should be able to type at least 45 words per minute, and should have good skills in grammar, spelling and punctuation. At this time the student should have completed or be enrolled in Business Writing and Legal Dictation and Transcription. Special fee. (3 hour lecture)

OST2225

Machine Shorthand 5 3 credits

This is the fifth course in machine shorthand. This course emphasizes two-vice dictation, jury charge, and literary dictation. The student will be required to take timed dictation on the shorthand machine and then tran-

scribe on a keyboard utilizing all the skills of a good transcriptionist. Good skills in grammar and spelling are necessary for success in this course. Prerequisite: OST 2224 (Machine Shorthand 4). Students entering this course should have earned a minimum of a C grade in Machine Shorthand 4 or the equivalent (passed literary dictation at 120 wpm, jury charge dictation at 140 wpm, and testimony dictation at 150 wpm for four minutes with 97 percent accuracy), should be able to type at least 45 words per minute, and should have good skills in grammar, spelling, and punctuation. At this time the student should have completed or be enrolled in Medical Dictation and Transcription. Special fee. (3 hour lecture)

OST2226

Machine Shorthand 6 3 credits

This is the final course in machine shorthand. This course emphasizes achieving the speeds on two-twice dictation, jury charge, and literary dictation for passing the Registered Professional Reporter Exam given by the National Court Reporters Association as well as interning in the courts, and polishing the skills needed to become a successful court reporter. Prerequisite: OST 2225 (Machine Shorthand 5. Students entering this course should have earned a minimum of a C grade in Machine Shorthand 5 or the equivalent (passed literary dictation at 150 wpm, jury charge dictation at 170 wpm, and testimony dictation at 180 wpm for five minutes with 97 percent accuracy), should be able to type at least 45 words per minute, and should have good skills in grammar, spelling, and punctuation. At this time the student should have completed Medical Dictation and Transcription, Legal Dictation and Transcription, and Court Procedures and Law Terms. Special fee. (3 hour lecture)

OST2231

Computer Aided Transcription

Computer Aided Transcription (CAT) teaches the students the correct techniques to use and procedures to follow when using computer aided transcription hardware and software similar to most computer courses. Students will be given dictation to be written on a stenotype keyboard. The students will prepare transcripts utilizing a computer aided transcription system where a machine shorthand theory will be input, translated, edited, and output. Students will be evaluated on the number of transcripts completed, the quality of transcripts and attendance. Prerequisite: OST 2221. Special fee. (3 hour lecture)

OST2251 Legal Dictation and Transcription 3 credits

The purpose of this course is to develop the skills in spelling legal terms, taking dictation, and transcribing legal material. Prerequisite: OST 2602. Special fee. (3 hour lecture)

OST2256

Medical Dictation

and Transcription 3 credits

The purpose of this course is to develop the skills in spelling medical terms, taking dictation, and transcribing medical material. Prerequisites: OST 2224, HIM 2472. Special fee. (3 hour lecture)

OST2311

Spreadsheet

Applications/Business 3 credits

This hands-on, three-credit course emphasizes the use of a spreadsheet for micro-computers. This course is designed to provide concepts, features, and commands of a spreadsheet for business and office administration applications. Classes are conducted in a hands-on lecture/laboratory environment where a microcomputer is available for each student. The content of this course will continually change to keep pace with current technology. The lab emphasizes the use and practice of a spreadsheet for microcomputers. Corequisite: OST 2311L. (3 hour lecture)

OST2311L

Spreadsheet Applications

for Business Laboratory

Emphasis is on the use and practices of utilizing spreadsheets in a business environment. This course is designed to provide training in concepts, features, and commands of a spreadsheet for business and office administration applications. This includes designing and creating worksheets, formatting worksheets, ana-

lyzing worksheet data, and working with

OST2335

3 credits

Business Writing 3 credits

workbooks. Special fee. (2 hour lab)

Covers the procedures for writing effective business letters and memorandums, a review of grammar, and the proper format of today's business correspondence. Students learn how to prepare inquiry letters, direct and indirect response letters, application letters and resumes, and short reports. Prerequisite: OST 1330. (3 hour lecture)

OST2362

Database Applications

for Business 3 credits

This is a comprehensive course in the use of a database for microcomputers. This course is designed to provide training on concepts, features, and commands of a database for business and office administration applications. Classes are conducted in a hands-on lecture/laboratory environment where a microcomputer is available for each student. The content of this course will continually change to keep pace with current technology. The lab emphasizes the use and practice of a database for microcomputers. Prerequisite: CGS 1060 or OST 2854C; corequisite: OST 2362L. Special fee. (3 hour lecture)

00 2008-10 CATALOG

1 credit

OST2362L

Database Applications Laboratory

Emphasis is on providing practice in applying concepts, features and commands of a database for business and office administration applications. This course is designed to assist the student to create a customized database, modify the structure of an existing database, retrieve information from a database, and integrate database applications with other applications. Corequisite: OST2362. Special fee. (2 hour lab)

OST2387

Certified Professional

Secretary Exam Preparation 1 3 credits This course is designed to prepare students for the Certified Professional Secretary examination where they will demonstrate knowledge of the concepts taught in economics, Management, Behavioral Science in Business and Business Law. (3 hour lecture)

OST2388

Certified Professional Secretary

3 credits **Exam Preparation Part 2** Preparation for the Accounting (Part IV), Communication Applications (Part V), and Business Law (Part II) portions of the Certified Professional Secretary Examination. One (1) credit will be awarded for each part completed. Prerequisite: Permission of department chairperson. May be repeated for credit. A.S. degree credit only. (3 hour lecture)

OST2402

Office Procedures 2 3 credits

This course provides training in office procedures and operations, human relation skills, and advanced office techniques using simulations. Prerequisites: OST 1110, 1702, 1741. Special fee. (3 hour lecture)

OST2431

Legal Office Procedures 3 credits

The Legal Office Procedures course will provide training in the procedures for preparing and processing legal documents and court papers. Students will perform legal office activities by applying correct legal terminology, following standard legal procedures for the functions of the court system, and employing techniques used in conducting legal research. Prerequisites: OST 1110, 1702, 2436. Specia 1 fee. (3 hour lecture)

OST2436

Court Procedures

& Law Terms 3 credits

The course content includes information relating to the daily role of the legal office administrator and court reporter and the terminology used in the legal profession. Special fee. (3 hour lecture)

OST2602

Machine Transcription 2 3 credits This course is the advanced level of tran-

scription from audio cassettes using transcribing equipment. Emphasis in this second-level transcription class is placed on simultaneously operating equipment and applying grammar formatting, proofreading, and punctuation skills to specialized office documents. Rough draft copies are prepared and proofread before final copies are produced. Prerequisites: OST 1110, 1601. Special fee. (3 hour lecture)

OST2760

Advanced Word

Processing 3 credits **Emphasizes** enhanced functions WordPerfect, a leading word processing software program. Topics include merging, macros, text columns, outlines, tables, footnotes, and endnotes. An introductory unit is included on a microcomputer disk operating system's concepts, features, and commands. Prerequisites: OST 1741, 1741L with grades of C or better; corequisite: OST 2760L is

OST2760L

required. (3 hour lecture)

Advanced Wordprocessing Lab 1 credit

This course is a corequisite to the Advanced Word Processing course. OST 2760. In this course the student will be applying the advanced functions taught in the OST 2760 course using a popular word processing program currently on the market. This course covers the application of theory and definitions of word processing, advanced functions, and advanced applications using Windows, the disk operating system. Prerequisites: OST 1100, 1741; corequisite: OST 2760. Special fee. (2 hour lab)

OST2828

Presentation Software

for the Office

The hands-on, one credit class is designed to provide students with an introductory experience on the use of presentation graphic software for office and business applications. This class covers basic presentation software concepts, features, and functions. Classes are conducted in a laboratory environment where a microcomputer is available for each student. The content of this class will continually change to keep pace with current technology. Special fee. (1 hour lecture)

OST2854C

Microcomputers for

the Office 4 credits

This hands-on, four-credit course is designed to present the first-time computer user the features of a microcomputer, how it works, and how to select a microcomputer to best fit individual needs. Students can acquire an increased awareness of the operating systems and major features of popular applications. This course offers an introduction to the fundamentals of microcomputers and specialized software used for office and business applications, including word processing, database, spreadsheets, operating systems and presentation software. Classes are conducted in a hands-on lecture laboratory environment where a microcomputer is available for each student. The content of this course will continually change to keep pace with current technology. Special fee. (3 hour lecture; 2 hour lab)

OST2930

Office Administration Lab 1 credit

This one-credit lab is designed for students who need to complete work for any Office Administration course that does not normally require a lab course. This course gives students access to the computer lab rooms during preset lab hours. The students will be able to practice speed and accuracy drills, complete class problem assignments, complete computer software application problems, complete business English assignments, complete machine transcription assignments, complete business writing assignments and complete office procedures assignments. Corequisite: Any OST course. Special fee. (2 hour lab)

OST2940

Internship/Practicum 3 credits

This course will provide work experience on the job in a business environment under the supervision of a professional. A faculty member oversees student progress and the faculty member and supervisor evaluate the performance of the student. The student works a minimum of 15 hours a week for an entire semester. Prerequisite: A minimum of 40 credit hours earned in the Office Technology program with a C grade or better in all major courses. (3 hour lecture)

Paralegal

PLA1949 Co-op Work

Experience 1: PLA 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Prerequisite: 2.0 GPA, approval of co-op director, and a minimum of 6 credits in field or approved work experience. (3 hour lecture)

PLA2003

Fundamentals of Law 3 credits

This course provides students with an overview of the American legal system. It explores the basic concepts of law in society including the different sources of law. The federal, state and county court systems are examined along with judicial interpretation of the law. The course also covers the distinctions between procedural and substantive law, civil versus criminal and a court of equity and a court of law. The roles of paralegals are discussed with an emphasis given in their professional relationships, functions, career opportunities and ethical obligations. Prerequisite: ENC 1101. Special fee. (3 hour lecture)



PLA2104

Legal Research 3 credits

This course provides students with an understanding of the process of legal analysis. Students will become familiar with research materials, tools, strategies, and learn how to locate research sources in a traditional law library. Prerequisite: PLA 2203. Special fee. (3 hour lecture)

PLA2114

Legal Writing 3 credits

This course provides knowledge and understanding of how to present legal research and analysis in proper written format. As legal research is an integral part of legal writing, the course will reinforce the skills used in legal research. It will also cover basic writing skills, the process of legal analysis, methodology involved in drafting a Memorandum of law, practice in drafting pleadings, and various types of specific law office correspondence. Prerequisites: ENC 1101, PLA 2003, 2104. (3 hour lecture)

PLA2203

Trial Preparation 3 credits

Trial Preparation focuses on the role of the paralegal in litigation and involves knowledge of the rules of civil procedure and the preparation and use of various written instruments utilized throughout the trial process. Prerequisites: PLA 2104, 2114. Special fee. (3 hour lecture)

PLA2223

Trial Practice & Appeals 3 credits

Trial Practice and Appeals examines the differences between jury and bench trials, the trial process, and the role of the litigation paralegal who assists the attorney in the preparation for trail. Prerequisites: PLA 2114, 2203. Special fee. (3 hour lecture)

PLA2273

Torts 3 credits

This course provides an examination of the theories governing tort law and the use of various pre-litigation tools. Topics covered include intentional torts, negligence and strict liability. The course also requires students to utilize the knowledge obtained to draft documents employed in practice. Prerequisites: PLA 2114, 2203. Special fee. (3 hour lecture)

PLA2303

Criminal Law & Litigation 3 credits

This course focuses on the substantive areas of criminal law including the offenses, elements, defenses and parties to a criminal law proceeding. It also emphasizes the role of the criminal justice system in adjudicating, enforcing and sentencing criminal defendants. It examines the Florida Rules of Criminal Procedure and provides practice in drafting documents required in the conduct of a criminal trial. Prerequisites: PLA 2114, 2203. Special fee. (3 hour lecture)

PLA2600

Wills, Trust, Estate 3 credits

Wills, Trusts, and Estates is a study of the laws governing wills and interstate succession. The course provides practice in drafting a simple will and trust. It also examines the procedures and rules involved in probate administrations and explains the ethical obligations of attorneys and paralegals who are involved in this area of practice. Prerequisites: PLA 2114, 2203, REE 2040. Special fee. (3 hour

PLA2763

Law Office Management 3 credits

A survey of economical and efficient law office practices and procedures including the proper use of law office equipment; business data processing law office management, personnel selection, training and management; employer/employee relationships; correct utilization of time and space; correct time keeping and billing procedures. Prerequisites: PLA 2114, 2203. Special fee.A.S. degree credit only. (3 hour lecture)

PLA2800

Family Law 3 credits

An examination of the legal aspects of domestic relations. This course focuses upon dissolution of marriage law with emphasis on pleadings, discovery, and property settlements. Other areas of family law such as adoption and annulment will be reviewed. Prerequisites: PLA 2114, 2203. A.S. degree credit only. (3 hour lecture)

PLA2931

Legal Specialty Seminars 1 credit Intensive practical and theoretical training

is provided in a seminar format. The seminar topics cover current and timely legal issues and are addressed by practicing attorneys. The topics are announced at the beginning of the fall and winter terms. Prerequisites: PLA 2003, 2104, 2114. A.S. degree credit only. (1 hour lecture)

PLA2932

Legal Specialty Seminars 1 credit

Intensive practical and theoretical training is provided in a seminar format. The seminar topics cover current and timely legal issues and are addressed by practicing attorneys. The topics are announced at the beginning of the fall and winter terms. Prerequisites: PLA 2003, 2104, 2114. A.S. degree credit only. (1 hour lecture)

PLA2933

Legal Specialty Seminars 1 credit

Intensive practical and theoretical training is provided in a seminar format. The seminar topics cover current and timely legal issues and are addressed by practicing attorneys. The topics are announced at the beginning of the fall and winter terms. Prerequisites: PLA 2003, 2104, 2114. A.S. degree credit only. (1 hour lecture)

PLA2934

Legal Specialty Seminars 1 credit

Intensive practical and theoretical training is provided in a seminar format. The seminar topics cover current and timely legal issues and are addressed by practicing attorneys. The topics are announced at the beginning of the fall and winter terms. Prerequisites: PLA 2003, 2104, 2114. A.S. degree credit only. (1 hour lecture)

PLA2935

Legal Specialty Seminars 1 credit

Intensive practical and theoretical training is provided in a seminar format. The seminar topics cover current and timely legal issues and are addressed by practicing attorneys. The topics are announced at the beginning of the fall and winter terms. Prerequisites: PLA 2003, 2104, 2114. A.S. degree credit only. (1 hour lecture)

PLA2936

Legal Specialty Seminars 1 credit

Intensive practical and theoretical training is provided in a seminar format. The seminar topics cover current and timely legal issues and are addressed by practicing attorneys. The topics are announced at the beginning of the fall and winter terms. Prerequisites: PLA 2003, 2104, 2114. A.S. degree credit only. (1 hour lecture)

PLA2998

Legal Assisting

Internship 1-3 variable credits Prerequisite: Permission of the program director. (1-3 hour lecture)

Philosophy and Logic

Introduction to Logic 3 credits

The basic principles of valid reasoning, including practice in the application of various techniques of analysis. (3 hour lecture)

PHI2010

Introduction to Philosophy 3 credits An in-depth analysis of some of the major

perennial philosophical problems as exemplified in the thought of several important philosophers. (3 hour lecture)

PHI2070

Introduction to Eastern Philosophy

Philosophical thought in the East, both ancient and modern. Hinduism, Buddhism,

3 credits

Taoism, Confucianism, and other major viewpoints will be considered as approaches to philosophy. (3 hour lecture)

PHI2604

Critical Thinking/Ethics 3 credits

The course develops skills in critical thinking by examining various topics in professional ethics. Students will study methods of effective reasoning, reflect critically upon their own values and ethical standards, develop a philosophical understanding of the nature of work, and formulate a professional code of conduct. Students will also critically examine ethical issues that arise in the workplace, such as affirmative action, sexual harassment, employee privacy, and age discrimination. Prerequisite: ENC 1101. (3 hour lecture)

00 2008-10 CATALOG

PHM2300

Political Philosophy 3 credits
A critical analysis of important political theories and problems, including an examination and comparison of the writings of some major political philosophers. Provides insights into the basic philosophical concepts which underlie political societies in order to better understand and evaluate the policies and practices of present political

Photography

societies. (3 hour lecture)

PGY2110C

Color

Photography 1 3-4 variable credits
An introductory course in the making of
Type C photographic prints, including the
darkroom techniques of developing color
film, color filtering, color balance and density control. There will be an exploration of
significant contributions to the aesthetics of
color photography. Students must provide
their own cameras, film and photographic
paper. Prerequisite: PGY 2401C. Laboratory
fee. (1-2 hour lecture; 4 hour lab)

PGY2111C

Color Photography 2 4 credits
Deals primarily with printing methods used
in printing color negatives. Concentrated
practice is given in light, color balancing,
exposure and processing of color printing
materials; the techniques of producing
matched multi-size prints are demonstrated.
Prerequisite: PGY 2110C. Laboratory fee. (1-2
hour lecture; 4 hour lab)

PGY2112C

Color Photography 3 4 credits An introduction to the use of the view camera to explore the problems of form and content in large format color photography. View camera will be provided. Special fee. (1-2 hour lecture; 4 hour lab)

PGY2210

Portrait and

Still Photography

Fundamentals of portrait and still photography are presented. Basic and advanced exercises are taught in lighting, posing, make-up and camera angles. Composition, lighting and design functioning to describe people and objects for a variety of clients are explored. Prerequisite: PGY 2410C. (1-2 hour lecture; 4 hour lab)

PGY2221

Illustrative Photography 1 4 credits
The use of the camera to illustrate either
an original concept or a concept provided
by an art director for clients such as magazines, manufacturing concerns, advertising
agents, newspapers, technical publications
and schools. The creative approach is stressed
in planning and production-effective color
and black/white illustrations. Prerequisite:
PGY 2410C. Laboratory fee. (1-2 hour lecture;
4 hour lab)

PGY2222

Fashion Photography 4 credits
The production of commercially viable photographs illustrating clothes as desirable objects as well as recent trends in fashion industry are studied. An awareness of mood, make-up, and dramatic impact is stressed. (1-2 hour lecture; 4 hour lab)

PGY2230

Illustrative Photography 2 4 credits A sophisticated level of photographic illustration is reached and emphasis is given to conceptual and visual continuity. Concepts, methods and techniques necessary to produce slide presentations for variety of clients are stressed. Seminars and conferences prepare students for the business aspects of the illustration and advertising markets. Prerequisite: PGY 2221. Laboratory fee. (1-2 hour lecture; 4 hour lab)

PGY2401C

Introduction to

Photography 3-4 variable credits Fundamentals of black and white photography as an art medium with emphasis on composition, design and processing. Students will supply their own camera, film and paper. Prerequisites: ART 1203C, 1300C, or equivalent. Laboratory fee. (1-2 hour lecture; 4 hour lab)

PGY2410C

Intermediate

Photography 3-4 variable credits Emphasis on achieving more technical control of black and white photography with introduction to larger format photography utilization of studio aspects such as strobe, quartz lighting and view camera controls continued development of aesthetics. Corequisite: PGY 2401C. Laboratory fee. (1-2 hour lecture; 4 hour lab)

PGY2470

4 credits

Portfolio Preparation 4 credits

Provides graduating students individual guidance and direction in the preparation of their portfolios. Emphasis is given to the realization of new photographic images. Prerequisite: PGY 2111C, 2210, 2221, 2222. Laboratory fee. (1-2 hour lecture; 4 hour lab)

PGY2475

Advanced

Photography 3-4 variable credits
The production of advanced portfolio in
black and white or color, while emphasizing
photography as a studio area in art. A continuation in the development of both technical
and aesthetic concerns for the art student
majoring in photography. Prerequisite: PGY
2410C. (2 hour lecture; 4 hour lab)

PGY2940

Photography Internship 4 credits
Graduating students will have the opportunity to meet and work with commercial
photographers in the South Florida area.

Students will report on their progress and show finished work at critique sessions. (1-2 hour lecture; 4 hour lab)

Physical Education

HLP1080

Wellness 2 credits

This course enables students to assess their present aerobic fitness level, lung capacity, percentage of body fat, flexibility and strength. From data collected, the student will be able to set personal wellness goals. Lectures, demonstrations, and multi-media materials will be used to provide the scientific basis for meeting ones personal wellness goals. (2 hour lecture/lab)

HLP1081

Fitness &

Wellness for Life 3 credits

The role of exercise, diet/nutrition, stress, and physical activity in relation to total well being. Current developments in the health area and lab assessments of the student's current health status are emphasized. Individualized exercise protocols based on these assessments are recommended. Special fee. (3 hour lecture/lab)

HLP1083

Weight Management 3 credits

This course is designed for students to develop an understanding of the role of exercise and nutrition as it applies to the implementation of a weight management plan. (3 hour lecture)

HLP1087

Health Analysis/ Improvement 2

Improvement 2 1-3 variable credits
Health Analysis/Improvement 2 (Wellness
Program) is an in-depth and advanced extension of HLP 1081. This course includes a
more individualized approach to the role
of exercise and nutrition in relationship to
developing a personal wellness program.
Using advanced lab assessments, the students'
health and fitness levels are evaluated and
progress of their personal exercise prescriptions is monitored. Prerequisite: HLP 1081.

PEO2321

(1 hour lecture; 4 hour lab)

Skills and

Practices in Volleyball 2 credits
Develops and analyzes the teaching and
coaching of volleyball. This course also
emphasizes skills and practices in volleyball.
Special fee. (1 hour lecture; 2 hour lab)

PEO2621

Skills and

Practices Basketball 2 credits Develops and analyzes the teaching and coaching of basketball. This course also emphasizes skills and practices of basketball. Special fee. (1 hour lecture; 2 hour lab)



PEP2131 Principles of

Resistance/Weight Training 2 credits Develops and analyzes the scientific principles of conducting safe exercise training and health behavioral change in teaching resistance weight training with an emphasis on Nautilus. Prerequisites: HLP 1081, PET 2303, PET 2303L. (1 hour lecture; 2 hour lab)

PET1949 Co-op Work Experience 1: PET

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

Scientific Principles

of Exercise Designed to provide students preparing for a career in developing, implementing, and supervising a variety of exercise programs. The course emphasizes the anatomical, physiological, and kinesiological principles involved in exercise and training. Corequisite: PET 2303L.

A.S. degree credit only. (3 hour lecture)

PET2303L

Scientific Principles of Exercise Laboratory

1 credit

3 credits

Selected laboratory experiments designed to complement PET 2303. Corequisite: PET 2303. A.S. degree credit only. (2 hour lab)

PET2622C

Techniques of Athletic Training

3 credits

Develops competence, knowledge and skill in the prevention and care of athletic injuries. A familiarization with the latest equipment, supplies, modalities and therapeutic aids is provided. Special fee. (2 hour lecture; 2 hour lab)

PET2940

Wellness Programs

Internship 3 credits Designed for STO Health Fitness Technician

Majors under supervision to gain on-the-job experience in conducting safe and sound wellness instruction for individuals of varying ages and fitness levels. Students will attend the four training sessions and work as a volunteer in the Wellness center for nine hours per week during the semester. Pre/ corequisites: HSC 2400, HUN 1201, PET 2303, 2303L.A.S. degree credit only. (1 hour lecture; 4 hour lab)

PET2949 Co-op Work

Experience 2: PET 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-op work experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

Physical Therapist Assistant

Anatomy for the

Physical Therapist Assistants 2 credits Regional description of the musculoskeletal landmarks utilized in implementing and documenting assessment and treatment procedures in physical therapy. Corequisites: BSC 2085, 2085L, PHT 1201, 1201L, 1211, 1211L, PHY 1004, 1004L. (2 hour lecture)

PHT1201

Introduction to

Physical Therapy 2 credits

Survey and history of the physical therapy profession. Role and responsibilities of the physical therapist assistant as they react with patients and other health care workers are discussed. Overview of common medical and surgical conditions treated in physical therapy is presented. Corequisites: BSC2085, 2085L, PHT1102, 1201L, 1211, 1211L, PHY 1004, 1004L. (2 hour lecture)

PHT1201L

Introduction to Physical

Therapy Laboratory 1 credit Basic patient care and treatment proce-

dures which are typically required in a physical therapy service area. Treatment procedures include the proper administration of steam packs, cold packs, paraffin, whirlpool, and gait training. Corequisites: BSC 2085, 2085L, PHT 1102, 1201, 1211, 1211L, PHY 1004, 1004L. Laboratory fee. (2 hour lab)

PHT1211

Disabilities and

Therapeutic Procedures 1 2 credits Cause and effect factors associated with selected orthopedic and neuromuscular disabilities. Corequisites: BSC 2085, 2085L, PHT 1211L, 1201, 1201L, 1102, PHY 1004, 1004L. (2 hour lecture)

PHT1211I

Disabilities and

Therapeutic Procedures 1 Lab

Laboratory practice of basic technical skills relating to electrohydrotherapy, therapeutic exercise and patient care procedures. Corequisite: BSC 2085, BSC

1 credit

2085L, PHT 1102, 1201, 1201L, 1211, PHY 1004, 1004L. Laboratory fee. (2 hour lab)

PHT1949 Co-op Work

Experience 1: PHT 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

Applied Kinesiology 2 credits

Anatomical structures and movements as related to physical therapy procedures. Recognition and understanding of biomechanics of all human motion as related to the function of the musculoskeletal system during therapeutic exercise and gait training is discussed. Prerequisites: PHT 1201, 1211, 1211L; corequisites: BSC 2086, 2086L, PHT 2120L, 2224, 2224L. A.S. degree credit only. (2 hour lecture)

PHT2120L

Applied Kinesiology

Laboratory 1 credit Procedures in measuring and analyzing muscle strength and function as related to the biomechanics of human motion. Prerequisites: PHT 1201, 1211, 1211L; corequisites: BSC 2086, 2086L, PHT 2120,

2224, 2224L. Laboratory fee. A.S. degree credit only. (2 hour lab)

PHT2162

Survey of

Neurological Deficits 3 credits Survey and description of clinical manifestations of neurological dysfunction frequently treated in physical therapy. Prerequisites: PHT 2120, 2120L, 2224, 2224L; corequisites: PHT 2701, 2701L, 2801. (3 hour lecture)

PHT2224

Disabilities and

Therapeutic Procedures 2 4 credits Cause and effect factors associated with the more complex medical and surgical problems resulting in disability. Prerequisites: PHT 1201, 1211, 1211L; corequisites: BSC 2086, 2086L, PHT 2120, 2120L, 2224. (4 hour lecture)

PHT2224L

Disabilities and

Therapeutic

2 credits Procedures 2 Lab

Laboratory practice of more complex technical skills and competencies related to preparing equipment and treatment of patients with a variety of medical, surgical and neuromuscular disabilities. Prerequisites: PHT 1201, 1211, 1211L; corequisites: BSC 2086, 2086L, PHT 2120, 2120L, 2224. Laboratory fee. (4 hour lab)

PHT2701

Rehabilitation Procedures 3 credits Clinical manifestations and treatment techniques related to physical therapy, intervention for children and adults with injuries and disabilities (spinal cord and brain injuries or disease, limb amputations, burns). Prerequisites: PHT 2120, 2120L, 2224, 2224L. Corequisites: PHT 2162, 2701L 2801. (3 hour lecture)

PHT2701L

Rehabilitation Procedures

Laboratory 2 credits Laboratory practice in the technical skills and competencies required in the total rehabilitative care and treatment of the child or adult who has had a severe injury or disease resulting in multiple disabilities. Prerequisites: PHT 2120, 2120L, 2224, 2224L; corequisites: PHT 2162, 2701, 2801. Laboratory fee. (4 hour lab)

PHT2801

Clinical Practice

and Conference 1 4 credits Beginning clinical experiences in supervised patient care activities in a variety of clinical facilities including general hospitals and physical therapy clinics. Prerequisites: PHT2120, 2120L, 2224, 2224L; PHT 2162, 2701, 2701L. (12 hour clinic)

PHT2810

Clinical Practice and Conference 2

Intermediate clinical experiences in selected patient care activities under the supervision of a licensed physical therapist. Prerequisites: PHT 2162, PHT 2701, 2701L, 2801; corequisite: PHT 2931. (15 hour clinic)

PHT2820

Clinical Practice

and Conference 3 7 credits

Advanced clinical experiences in patient care activities under the direct supervision of a licensed physical therapist. Prerequisites: PHT 2810, 2931. (21 hour clinic)

PHT2931

Seminar for

Physical Therapist Assistants 3 credits Recognition of the expected current competency levels, and ethical and legal responsibilities of the physical therapist assistant in the health care system. Prerequisites: PHT 2162, 2701, 2701L, 2801. Corequisite: PHT 2810.A.S. degree credit only. (3 hour lecture)

PHT2949 Co-op Work

Experience 2: PHT 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of 1949 Co-op work experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

Physician Assistant

PAS1800C

Physical Diagnosis 1 2 credits

A course which provides the students with the critical basis for and clinical exposure to techniques used in the proper performance and recording of the physical examination of patients. Prerequisites: BSC 2085, 2085L, 2086, 2086L, CHM 1033, 1033L. (1.5 hour lecture; 1.5 hour lab)

PAS1801C

Physical Diagnosis 2 2 credits

In the hospital and classroom setting, the student will obtain experience in performing and recording patient histories and physical examinations and presenting clinical data. Prerequisites: MCB 2013, 2013L, PAS 1800C, 1812, 1813, 1822C, 1823, 1831. (1.5 hour lecture; 1.5 hour lab)

PAS1810C

5 credits

Surgical Problems

& Procedures 5 credits

During this course the student will be exposed to the various aspects of general, orthopedic, cardiovascular, thoracic, ENT, neurologic, urologic, and pediatric surgical problems, their diagnosis and treatment. Laboratory components of this course will include learning fundamental techniques necessary in preoperative and postoperative care, including nasogastric intubation, central venous line placement, arterial and venous punctures and sterile techniques. Prerequisites: PAS 1801C, 1811, 1821, 1824, 1830. (4 2/3 hour lecture; 1 hour lab)

PAS1811

Introduction to

Medicine 1 for PAs 5 credits

The first course in the sequence PAS 1811, 1820. Focuses on signs, symptoms, and pathophysiology of common diseases affecting pediatric, adult, and geriatric patients; diagnosis, therapeutic intervention and follow-up; patient education and preventative medicine are included. Prerequisites: MCB 2013, 2013L, PAS 1800C, 1812, 1813, 1822C 1823, 1831. (5 hour lecture)

PAS1812

Behavioral & Community

Medicine 1 for PAs

1 credit A biopsychosocial system approach to identify the individual, the family and community within the health care delivery system. Studies the American health care system, emphasizing the role of the PA profession, patient education, preventative medicine, community health, and medical legal ethics. Prerequisites: BSC 2085, 2085L, 2086, 2086L, CHM 1033, 1033L. (1 hour lecture)

PAS1813

Pathophysiological Basis

of Disease 1 2 credits First course in the sequence PAS 1813, 1824. An introduction to the underlying patho-

logic bases for specific disease processes. Prerequisites: BSC 2085, 2085L, 2086, 2086L, CHM 1033, 1033L. (2 hour lecture)

PAS1820

Introduction to

Medicine 2 for PAs 5 credits

The second course in the sequence. PAS 1811, 1820. Focuses on signs, symptoms, and pathophysiology of common diseases of all ages. Prerequisites: PAS 1801C, 1811, 1821, 1824, 1830. (5 hour lecture)

PAS1821

Behavioral &

Community Education

Medicine 2 for PAs 1 credit The second course in the PAS 1812, PAS

1821 sequence. A continuation of the study of the biopsychosocial model for health. Prerequisites: PAS 1801C, 1812, 1813, 1822C, 1823, 1831. (1 hour lecture)

PAS1822C

Electrocardiography/

Cardiology 2 credits

A study of the principles and practical application of electrocardiography for the physician assistant. Includes practice in Basic and Advanced Cardiac Life Support measures for life threatening emergencies. Prerequisites: BSC 2085, 2085L, 2086, 2086L, CHM 1033, 1033L. (1 2/3 hour lecture; 1/3 hour lab)

PAS1823

Pharmacology 2 credits

The first course in the sequence PAS 1823, 1830. The study of the preparation, uses, and action of drugs. Prerequisites: BSC 2085, 2085L, 2086, 2086L, CHM 1033, 1033L. (2 hour lecture)

PAS1824

Pathophysiological

2 credits A continuation of PAS 1813 Focus is on cell dynamics and immunity. Prerequisites: MCB 2013, 2013L, PAS 1800C, PAS 1812, 1813, 1822C, 1823, 1831. (2 hour lecture)

PAS1830

Pharmacotherapeutics 4 credits

The second course in the sequence PAS 1823, 1830. The study of the use of drugs to treat disease, including contraindication and incompatibilities; drug interactions; side effects and their treatment, and dosages and calculations. Prerequisites: PAS 1800C, 1812, 1813, 1822C, 1823, 1831. (4 hour lecture)

PAS1831

Clinical Diagnostic

1 credit **Imaging**

A study of multiple imaging modalities employed in the diagnosis of pathologic processes. Prerequisites: BSC 2085, 2085L, 2086, 2086L, CHM 1033, 1033L. (1 hour lecture)



PAS2840L

Internal Medicine 4 credits

The clinical course focuses on basic medical practice. The student is exposed to common medical problems encountered on in-patient and out-patient medical services. Emphasis is placed on the history and physical examination and the process required in the proper work-up and management of the patient. Patient care experience in the various subdivisions of internal medicine including oncology, hematology, neurology, nephrology, gastroenterology, rheumatology, pulmonology, cardiology, and infectious diseases may be required. Prerequisites: PAS 1810C, 1821, 1820, 1830. (18 hour lab)

PAS28411.

Geriatrics 2 credits

This clinical course provides the opportunity for students to become familiar with common physical and psychological problems encountered by the geriatric patient including cardiac and respiratory insufficiency, urinary tract infection, strokes, and diabetes mellitus. Prerequisites: PAS 1810C, 1820, 1821, 1830. (9 hour lab)

PAS2842L

Psychiatry 2 credits

This clinical course in a psychiatric care setting will allow students to participate in daily rounds and become knowledgeable of the use of psychotropic medications for psychiatric disorders. Group therapy sessions will be a major part of the learning experience. Prerequisites: PAS 1810C, 1820, 1821, 1830. (9 hour lab)

PAS2850L

2 credits Surgery

During the clinical course the student will be exposed to a variety of clinical problems routinely seen on the surgical service. Emphases will be placed on preoperative, intraoperative and postoperative management of the patient. In the operating room the student will practice aseptic technique, operating room principles, and assist in surgery. Prerequisites: PAS 1820, 1821, 1830. (9 hour lab)

PAS2860L

Pediatrics 4 credits

This clinical course in pediatric care settings will introduce students to childhood illnesses and normal variations of growth and development. Students will perform histories and physical examinations and manage patients in the newborn nursery, pediatric out-patient clinic and emergency room. Prerequisites: PAS 1810C, 1820, 1821, 1830. (18 hour lab)

PAS28661.

Family Medicine 4 credits

This clinical course introduces the student to the family practice setting where emphasis is placed on the common diseases treated by primary care practitioners in conjunction with other members of the health care team. The student is exposed to rural epidemiology, cultural diversity, and problems that affect delivery of health care in rural and underserved areas. Prerequisites: PAS 1009, 1020, 1026, 1200C. (18 hour lab)

PAS2870L

Obstetrics/Gynecology 2 credits

During this clinical course the student will participate on the obstetrical service managing pregnancy, labor and delivery and be introduced to pre-and postnatal complications. The student will also participate in the management of common gynecologic problems. Prerequisites: PAS 1810C, 1820, 1821, 1830. (9 hour lab)

PAS2876L

Emergency Medicine 2 credits

This clinical course in an emergency care setting will provide opportunities for the student to manage the acutely ill and traumatized patient. The student will learn to perform history and physical examination on the acutely ill patient with emphasis being placed on the management and support measures necessary in situations which are life threatening. Prerequisites: PAS 1810C, 1820, 1821, 1830. (9 hour lab)

AST1002

Descriptive Astronomy 3 credits

The solar system, the nature of electromagnetic radiation, astronomical instruments, stars, galaxies, and cosmology. Sessions are devoted to viewing the sky and to laboratory activities. Special fee. (3 hour lecture)

PHY1004

Physics with

Applications 1

Emphasizes the basic concepts and principles and their practical applications. Designed specifically for students in technical studies and for others wishing to strengthen their physics background before taking advanced courses. Prerequisite: MAT 1033 with a grade of C or better; corequisite: PHY 1004L with a grade of C or better. Special fee. (3 hour lecture)

PHY1004L

Physics with

Applications 1 Lab 1 credit Laboratory for PHY 1004. Prerequisite: MAT 1033; corequisite: PHY 1004. Laboratory fee. (2 hour lab)

PHY1005

Physics with Applications 2

Emphasizes the basic concepts and principles and their practical applications. Designed specifically for students in technical studies and for others wishing to strengthen their physics background before taking advanced

courses. Prerequisite: PHY 1004; corequisite: PHY 1005L. Special fee. (3 hour lecture)

PHY1005L

Physics with

Applications 2 Lab 1 credit Laboratory for PHY 1005. Prerequisite: PHY 1004; corequisite: PHY 1005. Laboratory fee. (2 hour lab)

PHY1025

Basic Physics

3 credits

This course will help students to facilitate the transition from high school to college/ university physics. The course will emphasize problem-solving techniques. Topics may include units of measure, particle mechanics, conservation laws, and basic field concepts. Prerequisite: MAC1105. (3 hour lecture)

Physics with Calculus 1 4 credits

Foundation course for physical science and engineering majors. PHY 2048 covers classical mechanics and thermodynamics. PHY 2049 includes electricity, magnetism, waves and optics. Prerequisites: High school physics or PHY 1025, PHY 2053 or departmental approval and MAC 2311; corequisite: PHY 2048L. Special fee. (4 hour lecture)

PHY2048L

Physics with

Calculus 1 Lab 1 credit Laboratory for PHY 2048. Prerequisite:

High school physics or PHY 1025 or PHY 2053 or departmental approval and MAC 2311; corequisite: PHY 2048. Laboratory fee. (2 hour lab)

PHY2049 **Physics With**

Calculus 2 4 credits

Foundation course for physical science and engineering majors. PHY 2048 covers classical mechanics and thermodynamics. PHY 2049 includes electricity, magnetism, waves and optics. Prerequisite: PHY 2048; corequisites: PHY 2049L and MAC 2312. Special fee. (4 hour lecture)

PHY2049L

Physics with

Calculus Lab 1 credit Laboratory for PHY 2049. Prerequisite:

PHY 2048; corequisites: PHY 2049 and MAC 2312. Laboratory fee. (2 hour lab)

PHY2053

3 credits

Physics (without

3 credits An introduction to the basic principles of physics. PHY 2053 covers mechanics, sound and thermodynamics. Prerequisite: MAC 1114

or MAC 1147; corequisite PHY 2053L. Special fee (3 hour lecture)

PHY2053L

Physics (without

Calculus) Lab 1 credit Laboratory for PHY 2053. Prerequisite:

MAC 1114 or MAC 1147 corequisite: PHY 2053L. Special fee. (2 hour lab)

00 2008-10 CATALOG

PHY2054 Physics (without Calculus) 2

3 credits

An introduction to the basic principles of physics. PHY 2053 covers mechanics, sound and thermodynamics. PHY 2054 includes electricity, magnetism and optics. Prerequisite: PHY 2053; corerequisite: PHY 2054L. Special fee. (3 hour lecture)

PHY2054L Physics (without

Calculus) 2 lab 1 credit Laboratory for PHY 2054. Prerequisite: PHY 2053; corequisite: PHY 2048. Laboratory fee. (2 hour lab)

PHY3019 Technology in **Physics Teaching**

3 credits

This course will expose the prospective teacher to a broad collection of technologies currently used in the physics classroom environment and beyond. The student will produce specific applications for varied educational settings, demonstrate a fair command of the most popular tools, and design original projects using the available technology. Prerequisites: PHY 2049, 2049L, (3 hour lecture)

PHY3101

Modern Physics 3 credits

This course will provide students with a deep understanding in areas of physics that lie beyond the scope of classical mechanics, thermo-dynamics and electromagnetism. Its content includes: the theory of relativity; wave properties of matter; an introduction to the quantum theory of atoms; the properties of molecules and solids; nuclear properties, interactions and applications; a brief description of elementary particles; and an overview of modern cosmology. The course will emphasize descriptive models and problem-solving techniques. Prerequisites: PHY 2048, 2049; corequisite: PHY 3125L. (3 hour lecture)

PHY3101L **Modern Physics**

Laboratory 1 credit

This course is a laboratory course designed to enhance the student's practice and understanding of areas of physics that lie beyond the scope of classical mechanics, thermo-dynamics and electromagnetism. These areas are covered in PHY 3101. While the main purpose of the course is to promote scientific understanding, the student will also acquire and demonstrate skills in the observation, measurement, recording, analysis, and reporting of experimental data. Prerequisites PHY 2049, MAP 2302; corequisite: PHY 3125. (2 hour lab)

PHY3504C

Thermodynamics & Waves 4 credits

This one-semester course will provide students with a deep understanding of fundamental topics of Classical Thermodynamics & Mechanical Waves. It includes also an introduction to Statistical Mechanics and Fourier

analysis, providing a sound foundation for their comprehension. Content includes heat engines, oscillations, transverse waves on a string, & sound waves in cylindrical pipes. This course includes a lab component, which focuses on enhancing concepts in Thermodynamics & Waves. (4 hour lecture)

PHY4220

Classical Mechanics 3 credits

This one-semester course will provide students with a deep understanding of some fundamental topics of classical mechanics, reinforcing the concepts learned in PHY 2048, and providing a sound foundation for their comprehension. Most of the topics of elementary mechanics will be studied in a rigorous manner, requiring a higher level of math. Content includes Newtonian particle mechanics, oscillations, noninertial reference frames, central forces, dynamics of systems, mechanics of rigid bodies, the lagrangian formulation of dynamics, and an overview of the Hamiltonian formulation. The course will emphasize problem-solving techniques and computer simulations. Prerequisites: PHY 2048, 2049, MAP 2302. (3 hour lecture)

PHY4320

Intermediate

Electromagnetism 3 credits

This course will provide students with a deep understanding of electricity and magnetism at an intermediate level. It will reinforce the concepts learned in PHY 2049, providing a better understanding of the fundamental electromagnetic phenomena. Content includes: vector calculus, electrostatics, dielectrics, electric currents, magnetostatics, electromagnetic induction, Maxwell's equations, wave optics, and electromagnetic radiation. The course will emphasize classical models and problemsolving techniques. Prerequisites: PHY 2049, MAP 2302, PHZ 3113. (3 hour lecture)

PHY4424 Geometrical &

Physical Optics 3 credits

This course will provide students with a deep understanding of optics with an emphasis on the classical models of the propagation of light waves, optical instruments, and a review of the electromagnetic theory of light. It will also include modern topics, such as holography, the laser and nonlinear optics. About two thirds of the class time will be devoted to basic theory, descriptive models and problem-solving. The other third will be dedicated to experiments and computer simulations. Prerequisites: PHY 2049, MAP2302. (3 hour lecture)

PHZ3113

Mathematical Physics 3 credits

This course will reinforce the background gained in the previous math courses. It will also supplement those topics with new theory and applications, while providing some powerful math tools to be used in the 3000-4000 level physics courses. Prerequisites: MAC 2311, 2312, MAP 2302, PHY 2049. (3 hour lecture)

PSC1121

General Education

Physical Science 3 credits

A study of the major concepts and principles from each of the following areas: physics, chemistry, and astronomy. Prerequisite: MAT1033. (3 hour lecture)

PSC1121L

General Education

Physical Science Laboratory 1 credit A laboratory course designed to accompany PSC1121 in the study of the major concepts and principles from each of the following areas: physics, chemistry, and astronomy. This course is designed primarily for elementary and middle school education majors. (2 hour Lab)

PSC1191

Physical Science Lab

Fundamentals 1 credit Students will learn to develop observation, measurement, analysis, and presentation

skills using hands-on collaborative physics and chemistry activities. These skills will enhance future performance in science, technology, engineering and mathematics (STEM) courses and careers. Students will use current technology as well as critical thinking. (2 hour lab)

PSC1515

Energy in

the Natural Environment 3 credits Investigation of the physical environment using energy as a theme to demonstrate the impact of science and technology on the environment and on the lives of people. Special fee. (3 hour lecture)

PSC1515L

Energy in the Natural

1 credit **Environment Laboratory** A laboratory course designed to com-

plement PSC 1515. Laboratory exercises explore the ways in which energy moves through the atmosphere, hydrosphere, lithosphere and biosphere, the advantages and disadvantages of various energy sources, and the potential of conservation as an energy resource. Laboratory fee. (2 hour lab)

Political Science

CPO2100

Comparative European

Government 3 credits

This course discusses the structures and functioning of the systems of government of three European states: Britain, France, and Germany. An attempt is made to analyze some of the current problems facing parliamentary governments, and to assess their performance in resolving them. A prior course in History or Social Science is desirable. Offered first semester. Given in English. Offered through Overseas Study Program. (3 hour lecture)



INR1949 Co-op Work

Experience 1: INR 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

INR2002

International Relations 3 credits

The nature of international relations, the causes of leading international problems, foreign policies of world powers, international political organizations, and the origins of war in the International arena. (3 hour lecture)

INR2440

International Law

and Organization 3 credits

International law and problems in world politics; a review of man's attempt to control international politics through international law and organizations, including the League of Nations, the United Nations, NATO and the European Union. A prior course in History or Social Science is desirable. Offered second semester. Given in English. Offered through Overseas Study Program. (3 hour lecture)

INR2949 Co-op Work

Experience 2: INR 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of INR 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

ISS2270

Multicultural Communications and Relations

3 credits

This course uses an interdisciplinary approach to examine the complex interactions among ethnicity, race, gender, age, and class as well as other ways in which we differ as they pertain to shaping personal awareness, understanding, and skills that will allow them to interact more effectively with diverse populations, age, groups, and lifestyles and to think through and value human diversity. This course has an overriding principle based on the concept of human rights. (3 hour lecture)

POS2041

American Federal

Government 3 credits

The American Constitution and its development, the organization and functions of the national government, political parties and the electoral process, and the relationship of the individual to the federal government. (3 hour

POS2112

State and Local

Government in America 3 credits

The typical state and local government organization, together with political practices in America, with special emphasis on the governmental organization and the major contemporary political problems of the State of Florida and of Florida communities. (3 hour lecture)

POS2141

Introduction to

Issues of Urban Politics 3 credits Presentation and exploration of a variety of topics, priorities, advocacy strategies, crisis channeling and constructive possibilities characteristic of urban politics will be offered as these are advanced by the identification, definition and strategic management of issues in highly populated jurisdictions in the U.S.A. Economics, ethnicity, education, health care, and other issues will be featured. (3 hour

POT2014

European Political

Theory 1 3 credits

This course covers the more important trends in European political thought from Plato to the present. It examines those ideas which have contributed to the shaping of the political cultures of Western and Eastern Europe. It discusses the historical evolution of key concepts of politics such as freedom, order, political obligations, justice, consent, rights and duties, power and authority. A prior course in government, history or philosophy is desirable. Given in English. Level 1. Offered through Overseas Study Program. (3 hour lecture)

Portuquese Lanquage

POR1120

Elementary

Portuguese 1 4 credits

An integrated (multi-media) approach to acquire proficiency in the basic skills of the Portuguese language (listening/understanding, speaking, reading, writing, and crosscultural awareness). Emphasis on practical vocabulary and accurate pronunciation. Practice in class and laboratory in understanding and using the spoken language; reading and writing with progressive grammatical explanations. (4 hour lecture)

POR1121

Elementary

Portuguese 2 4 credits

A continuation of POR 1120. A proficiencyoriented course emphasizing the mastery of the basic skills of the language. Prerequisite: POR 1120. (4 hour lecture)

POR2201

Intermediate

Portuguese 2 3 credits

Understanding, speaking, reading, writing and cross-cultural awareness, through a systematic review of reading and writing skills with emphasis on oral as well as written expression. Prerequisite: POR 2200. (3 hour lecture)

POR2220

Intermediate

4 credits Portuguese 1

A technology-based course designed to teach intermediate speaking, reading and writing skills with emphasis on oral proficiency. Brazilian culture introduced through textspecific video materials. Prerequisite: POR 1121 or equivalent. (4 hour lecture)

Psychology

CLP1006

Psychology of

Personal Effectiveness 3 credits

This is an applied psychology course which emphasizes the understanding of the principles of effective human behavior and their application to the areas of personal awareness, interpersonal relations, communication, and work/career development. (3 hour lecture)

Dynamics of Behavior 3 credits

Analysis of mechanisms of adjustment, motivation, frustration and conflict, learning personality and psychotherapy. Emphasis is on the psychological processes of the normal individual functioning in society rather than on the behavior disorders. (3 hour lecture)

CLP2001

Basic Human

Development 2-3 variable credits

Identification and classification of personal strengths, potentials, feelings, needs and values, to articulate personal goals, and to develop behavioral guidelines to increase the possibility of achieving these goals. Emphasis is on congruity between strengths, needs, feelings, and values, and behavior in order to experience greater interpersonal integrity and self-esteem. An experientially-taught course, with regular use of student interaction in dyads, triads, and small group experience. (2-3 hour lecture)

CLP2140

Abnormal Psychology 3 credits

This course examines the major categories of mental disorders. Diagnostic criteria, treatment methods, cultural factors, public attitudes, community resources, ethical issues and legislation applicable to individuals with mental disorders are studied. The impacts of mental disorders on individuals, families and society are discussed. (3 hour lecture)

MDC 2008-10 CATALOG

DEP2000 Human Growth and Development

3 credits

The nature of human behavior as a dynamic developmental phenomenon. While the emphasis is psychological, an understanding of the physical aspects of development and their social implications is included. Observation and written analysis of principles of learning involved in human development are required. The course meets teacher certification requirements in the area of psychological foundations. (3 hour lecture)

DEP2100 Child Growth

and Development 3 credits

This course in Child Growth and Development is designed especially for the student interested in the human life span from birth through the first eight years. The course is intended to acquaint the student with basic theoretical models of development and such specific topics as heredity teratogenic agents, learning, intelligence, socialization, personality, sex role identification, language acquisition and moral development. (3 hour lecture)

DEP2481 Death Attitudes

and Life Affirmation

3 credits

An analysis of the psychology, philosophy, and social function of death and dying, especially in relation to the general negative view of death in American society. Encourages a reconstruction of the participant's approach to living through a confrontation of their fear of death and of those life-denying traits and values which inhibit their growth. The course also investigates humane possibilities for funeral, bereavement, and counseling the terminally ill. (3 hour lecture)

INP2390

Psychology of Work 3 credits

Applies the understanding of effective human relations to work situations. Personal dynamics for success are also considered. Students will be taught how to influence behavior on the job as they apply their knowledge and interpersonal skills to specific experiences in the work place. (3 hour lecture)

PCO2731

Human Relations 3 credits

Emphasizes an awareness of the problems of a person's relationship to others, and the known laws and generalizations about the action patterns of individuals and groups. Effort is made to develop an awareness of the techniques of effective interpersonal relations. (3 hour lecture)

PSB2442

The Psychology of Addiction 3 credits

This course will examine psychological, medical, pharmacological, legal, economic and sociological aspects of addiction to and use of various chemicals. The course will take an in-depth look at narcotics sedatives, and stimulants including alcohol, cocaine, heroin, cannabis, caffeine and tobacco. (3 hour lecture)

PSY1949 Co-op Work

Experience 1: PSY 3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

PSY2012

Introduction to

Psychology 3 credits Blends classic material with the most recent developments in psychological theory. Provides an understanding of human behavior as a natural phenomenon subject to scientific study. (3 hour lecture)

PSY2949 Co-op Work

Experience 2: PSY

3 credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of INR 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (3 hour lecture)

SOP2002

Social Psychology 3 credits

Combines knowledge of psychology and sociology, in an interdisciplinary approach to the study of human interaction. Main themes deal with the nature of attitudes, how attitudes may be changed, the processes of interaction and the nature of group structures. (3 hour lecture)

SOP2772

Human Sexuality 1-3 variable credits

Emphasizes the interrelationships between the biological, socio-psychological and cultural aspects of human sexuality. Among the topics covered are the biopsychosocial states of development, sexual arousal, the historical basis of Western sexual values and behavior, sex laws, the Kinsey-Masters-Johnson reports and sexuality in the arts. (1-3 hour lecture)

SOP2991

Introduction to

Women's Studies 3 credits

This course emphasizes the role of gender and social class in understanding the female experience drawing on psychological, sociological, literary, historical, and philosophical perspectives. Contemporary issues and problems that influence the role of women today are explored. (3 hour lecture)

Public Administration

PAD2002

Introduction to

Public Administration 3 credits

Presentation and exploration of the distinct components, structure, philosophy and purposes of administration in the public (government) sector, emphasizing unique features compared to the private (business) and independent (voluntary) sectors within the contemporary United States. Concepts, competencies, ethics and professionalism in a diverse society implementing a variety of public policies through various government agencies at various levels will be studied. (3 hour lecture)

Quantitative Methods in Business

OMB2100

Basic Business Statistics 3 credits

The application of basic statistical methods to business problems. Emphasis is on learning to select the appropriate statistical method of solving a given business problem, applying the chosen method, and interpreting the solution. Prerequisite: Acceptable score on the Algebra Placement test or equivalent; corequisite: QMB 2100L. (3 hour lecture)

QMB2100L

Basic Statistics Laboratory 1 credit Laboratory for QMB 2100. Selected examples designed to give interested students further practice in interpreting and solving business problems related to business. Corequisite: QMB 2100. Laboratory fee. (2 hour lab)

Radiation Therapy Technology

RAT1001

Introduction to

Radiation Oncology 2 credits

Introduction to the clinical setting in a radiation therapy department. The course includes radiation protection, mathematical concepts in radiation oncology, and medical terminology in the treatment of patients in a radiation oncology setting. Corequisites: RAT 1021, 1211, 1614, 1804L. (2 hour lecture)

RAT1021

Principles and Practice

of Radiation Therapy 1 2 credits

A study of all major radiotherapy equipment such as linear accelerators and superficial ortho- and mega-voltage units. Auxiliary equipment such as simulators, immobilization devices, beam directors and modifiers will also be discussed. Patient positioning, treatment planning, patient flow, and quality assurance will be presented in detail. Corequisites: RAT 1001, 1211, 1614, 1804L. (2 hour lecture)

214



RAT1211

Human Disease 1 credit

The relationship of the human body to neoplastic and other pathologic diseases. Topics will include cells, tissues, organs and systems. Skeletal, muscular, nervous, endocrine, circulatory, reticuloendothelial, digestive, urinary, respiratory, and reproductive systems will be discussed. Corequisites: RAT 1001, 1021, 1614, 1804L. (1 hour lecture)

RAT1242

Clinical Oncology

& Pathology 2 credits
Malignant conditions, etiology, and methods of treatment. Patient management, treatment planning, patient prognosis, treatment results, and the use and effect of combined therapies will be discussed. Contributing factors, growth and biologic behavior of neoplastic diseases as well as specific types of tumors and tumor sites will also be discussed. Corequisites: RAT 1619, 2022, 2241. (2 hour lecture)

RAT1614 Radiation Therapy

Physics 1 2 credits

A basic radiation physics course containing fundamental principles and concepts. The course includes radiation production, properties, and characteristics as well as structure of the atom and matter, electrostatics, magnetism, electrodynamics, and the electromagnetic spectrum. Corequisites: RAT 1001, 1021, 1211, 1804L. (2 hour lecture)

RAT1619

Elements of

Treatment Planning 2 credits
Determination of radiation doses in treatment
planning using computerized methodology.
Corequisites: RAT 1242, 2241, 2618. (2 hour
lecture)

RAT1657

Radiation Protection/

Quality Assurance 1 credit

This course is designed to present basic principles of radiation protection and safety in radiation therapy. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and health care organizations are included. Specific responsibilities of the radiation therapist are discussed, examined and evaluated. (1 hour lecture)

RAT1801L

Introduction to Clinic 2 credits

Students will rotate through various diagnostic imaging areas of the hospital in order to observe the equipment, procedures, and images produced. Opportunities to apply the skills learned in HSC0003 as well as the competencies achieved in RTE1000 will be included. (6 hour clinic)

RAT1804L

Clinic 1 2 credits

Orientation to radiation therapy procedures in a local radiation therapy department.

Students are closely supervised by certified radiation therapy technologists as they are introduced to record keeping and treatment units. Corequisites: RAT 1001, 1021, 1211, 1614. (18 hour clinic)

RAT1814L

Clinic 2 8 credits

Continued patient treatment assignments. The responsibilities of the students increase as more complex competencies in patient treatment are mastered under direct supervision. Prerequisite: RAT 1804L; corequisites: RAT 1242, 1619, 2241, 2618. (24 hour clinic)

RAT1824L

Clinic 3 8 credits

Continuation of advanced patient treatment competencies under the supervision of an ARRT Certified Radiation Therapy Technologist. Prerequisite: RAT 1814L; corequisites: RAT 2243. (24 hour clinic)

RAT1840

Clinical Applications

of Anatomy

1 credit
Content and practice experiences shall be
designed for sequential development, application, analysis, integration, synthesis and
evaluation of concepts and theories in clinical anatomy for radiation therapy. Through
structured sequential assignments, concepts
of clinical anatomy from various modalities
for radiation therapy will be discussed, examined and evaluated. Prerequisites: BSC 2085,
2085L, 2086, 2086L. (1 hour lecture)

RAT2022

Principles & Practice

of Radiation Therapy 2 2 credits
Continued application of radiation therapy
and its effectiveness in treatments. Advanced
patient positioning, planning and flow,
and quality assurance will be discussed.
Prerequisite: RAT 1021; corequisites: RAT
1242, 1619, 1655, 1814, 2241, 1618. (2 hour
lecture)

RAT2241

Radiobiology 2 credits

Principles of cell response to radiation. Factors influencing the effects of radiation, tissue sensitivity, and environmental factors are discussed. Corequisites: RAT 1242, 1619, 2022, 2618. (2 hour lecture)

RAT2243

Clinical Oncology

& Neoplasm's 2 credits

A continuation of medical oncology and pathology 1. Prerequisite: RAT 1242; corequisites: RAT 1824L. (2 hour lecture)

RAT2618

Radiation Therapy

Physics 2 2 credits

Specifics of ionizing radiation such as details of production, interactions, and types of radiation and their application to the patient treatment. Properties of production, photon interactions, beam characteristics, and particle irradiation will be discussed. Prerequisite: RAT 1614; corequisites: RAT 1242, 1619, 1814L, 2022, 2241. (2 hour lecture)

RAT2690

Integration of

Radiation Therapy Concepts 2 credits
This course integrates anatomy, clinical oncology and neoplasm's, radiation physics, radiation biology, and radiation protection as they relate to the treatment planning process.
Basic concepts used to develop the treatment plan for patients with particular needs will be discussed. Prerequisite: RAT 2022. (2 hour

RAT2834L

lecture)

Clinic 4 6 credits

This course includes clinical rotations through the radiation therapy department. Students will be provided the opportunity to apply theory learned from the previous semester in the various areas of the treatment process. Prerequisites: RAT 1801L, 1804L, 1814L, 1824L. (18 hour clinic)

Radiologic Technology

RTE1000

Orientation to

Radiologic Technology 2 credits

Introduction to the role of the technologist in a Radiology Department as a member of the health care team. Ethnics, basic hospital and medical terminology, and principles of radiation protection are included. Corequisites: RTE 1418, 1503, 1503L 1804. (2 hour lecture)

RTE1002

Orientation to

Radiographic Clinic 1 credit

This course is designed to introduce the student to the radiology department as well as the hospital environment. Students. Will be provided the opportunity to observe all facets of the department, as well as participate at a minimal level in the various areas by rotating through a hospital radiology department. (3 clinical hrs. per week)

RTE1418

Radiographic Technology 1 3 credits Introduction to radiographic imaging including the relation of technical factors and accessories. The chemistry of manual and automatic film processing is included. Prerequisites: RTE 1418, 1503, 1503L, 1804. (3 hour lecture)

RTE1503

Radiographic Positioning 1 3 credits Basic routine positioning of the chest, abdo-

men, upper and lower extremities, digestive and urinary systems. Perquisites: RTE 1000, 1418, 1503L, 1804. (3 hour lecture)

RTE1503L

Radiographic Positioning

Laboratory 1 1 credit

Laboratory for RTE 1503. Corequisite: RTE 1503. Laboratory fee. (2 hour lab)

RTE1513

Radiographic Positioning 2 3 credits Positioning of the bony pelvis, shoulder girdle, bony thorax, spinal column, skull and facial bones. Prerequisites: RTE 1418, 1503, 1503L, 1804; corequisites: RTE 1513L, 1613, 1814. (3 hour lecture)

RTE1513L

Radiographic Positioning

Laboratory 2 1 credit Laboratory for RTE 1513. Corequisite: RTE 1513. Laboratory fee. (2 hour lab)

RTE1613

Radiologic Physics 2 credits

Basic principles of physics involving x-radiation equipment, production and control. Prerequisite: RTE 1000. (2 hour lecture)

RTE1804

Radiographic Clinic 1 5 credits

The first in a series of six clinical courses. Under direct supervision of faculty and clinical staff, performance of basic diagnostic radiographic procedures is carried out. Corequisites: RTE 1418, 1503, 1503L. (15 hour clinic)

RTE1814

Radiographic Clinic 2 5 credits

The student will be evaluated on competency performances in routine fluoroscopic, and in urographic procedures. This is the second of six clinical education courses. Prerequisite: RTE 1804; corequisites: RTE 1513, 1513L, 1613. (15 hour clinic)

RTE1824

Radiographic Clinic 3 5 credits

The student continues to rotate, under supervision, through different units of a Radiology Department. Development of a capability to assist in diagnostic procedures at a more complex level. Prerequisite: RTE 1814. (24 hour clinic)

RTE2010

New Imaging

Modalities in Radiology 1 credit

This course will enable the students to compare and contrast the current imaging modalities with the emerging technologies available in Radiology departments. Included in this course will be pictural archiving and communications systems (PACs), digital imaging, and fusion imaging. Prequisites: RTE1418, RTE1613, RTE2457; Corequisite: RTE2854. (1 hour lecture)

RTE2061

American Registry of Radiologic Technologists

Exam Review 2 credits

An in-depth review for the American Registry of Radiologic Technology (ARRT) certification examination in Radiography. Emphasis is placed on the five test sections currently being utilized by the ARRT. Prerequisite: Eligibility for ARRT exam. A.S. degree credit only. (32 hour lab)

RTE2385

Radiation Biology 2 credits

The biologic effects of the interaction of ionizing radiation with living matter. Prerequisite: RTE 1000; 2834. (2 hour lab)

RTE245

Radiologic Technology 2 3 credits

A more in-depth study of radiographic exposure factors as they relate to specialized procedures and equipment. Prerequisite: RTE 1824; corequisites: RTE 2563, 2834, 2782. (2 hour lecture)

RTE2563

Radiographic Positioning 3 2 credits Radiographic procedures which utilize contrast media, sterile techniques, and/or specialized equipment and accessories. Prerequisite: RTE 1824; corequisites: RTE 2457, 2782, 2834. (2 hour lecture)

RTE2782

Radiographic Pathology 2 credits

Basic disease processes, nature and cause of disease and injury, and their related radiographic significance. Prerequisite: RTE 1824; corequisites: RTE 2457, 2563, 2834. (2 hour lecture)

RTE2834

Radiographic Clinic 4 5 credits

Performance of procedures of increasing levels of complexity and responsibility including specialized diagnostic procedures. At this level the program faculty and clinical supervisor will determine if the student can perform procedures with less supervision. Prerequisite: RTE 1824; Corequisites: RTE 2457, 2563, 2782. (15 hour clinic)

RTE2844

Radiographic Clinic 5 8 credits

The fifth in a series of six clinical education courses. During this clinical course the student will perform standard quality assurance tests on radiographic equipment and accessories. In addition, the student will have competency evaluations to include a gastrointestinal series and either paranasal sinuses or facial bone studies. Prerequisite: RTE 2834. (24 hour clinic)

RTE2854

Radiographic Clinic 6 3 credits

The student will complete the competencies required by the American Registry of Radiologic Technologists to become eligible to apply to sit for the certification exam. The student will socialize into radiography practice by beginning to work more independently of a radiographer. The student will use organizational skills to provide care to patient clients assigned to them during radiographic exams. During this course the student will be assigned to one rotation during hours other than the normal working hours of the radiology department to gain competency in procedures not usually available during the day. Prerequisite: RTE 2844. (9 hour clinic).

Reading

REA1105

College Reading 1 3 credits

This course is an introduction to college level reading. Students will demonstrate college level literal and critical comprehension, vocabulary and study skills using a variety of reading materials. Special fee. (3 hour lecture)

REA1125

Reading Skills

Review 1-3 variable credits

This course is designed to help students to develop specific literal and critical reading comprehension skills which are needed in preparation for the CLAST exam. Course content will focus on prescribed instruction based on reading assessment scores. (1-3 hour lecture)

Reading College Preparatory

REA0001

College Preparatory Reading 1

REA 0001 is a college preparatory reading course which builds vocabulary skills, literal and critical comprehension skills, and successful reading strategies. Laboratory required. Prerequisite: Placement by Scholastic Assessment Test (SAT) Verbal subtest score; American College Testing (ACT) Reading subtest score; or Computerized Placement Test (CPT) Reading subtest score. (4 hour lecture)

REA0002

College Preparatory

Reading 2 4 credits
REA 0002 is a college preparatory reading
course which builds vocabulary skills, literal
and critical comprehension skills, and successful reading strategies. Laboratory required.
Prerequisites: Placement by Scholastic
Assessment Test (SAT) Verbal subtest score;
American College Testing (ACT) Reading
subtest score; Computerized Placement Test
(CPT) Reading subtest score; or successful
completion of REA 0001. (4 hour lecture)

REA0003

College Preparatory Reading 3

4 credits

4 credits

The Reading Lab provides intensive tutorial assistance for basic to advanced level students. This encompasses word recognition, pronunciation, reading rate, and technical reading. A tutorial study lab is available to assist with any college level course work area. Special Sections for Learning Disabled Students available. College preparatory, may not be used to satisfy graduation requirements. (1.5-9 clock hrs.)



Reading Education

RED3009 Early and

Emergent Literacy 3 credits

This writing intensive course is designed to familiarize students with early literacy development and conditions promoting total literacy from birth through lower elementary grades. All aspects of literacy learning are explored: reading, writing, listening, and speaking. Students are familiarized with theory and current research based approaches fostering early literacy. Minimum 20 hours observation/teaching reading in educational setting(s) required. Meets the guidelines of Sunshine State Standards and the Educator accomplished practices and addresses the Council for Exceptional Children's Content Standards for All Beginning Special Education Teachers. (3 hour lecture)

RED3352 Reading in

the Content Areas 3 credits

This course is designed to enable preservice teachers of subject matter content to acquire knowledge, skills and techniques necessary to guide secondary level students to be successful learners. Students will also learn and evaluate the methodology currently available for combining reading instruction with subject matter instruction. Special attention will be given to determining the relationship between the methodology and research-based principles of learning and effective teaching in the area of reading. (3 hour lecture)

RED4348

Literacy Development K-12 3 credits

This course provides an understanding of reading instruction through the elementary, middle school, and secondary school levels. It presents learning to read as a continuous process that impacts all academic success. Reading theories, methods, and practices as they relate to comprehension and other aspects of the reading process are introduced. An emphasis is placed on approaches that help students with delayed reading acquisition skills. Prerequisite: RED 3009. (3 hour lecture)

RED4519

Diagnosis and Instructional
Intervention in Reading 3 cr

3 credits This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Topics include assessments of all aspects of reading, including comprehension, word recognition, phonics, and cognitive strategies. The main emphasis is diagnosis of reading problems, administration of assessments, evaluation of results, and planning instructional interventions to remediate reading difficulties. Addresses Council for Exceptional Children's Content Standards for all Beginning Special Education Teachers. A minimum of 20 hours of structured field experience is required. Prerequisite: RED 3009 (3 hour lecture)

Real Estate

REE2040

Real Estate Principles and Practices (P&P 1)

4 credits

Topics include real property, liens, titles, contracts, tax factors, mortgages, property evaluation, real estate market, licensing requirements, legal aspects of the real estate business, and property management. Completion of this course is required by the Florida Real Estate Commission for approval to take the State Examination. (4 hour lecture)

REE2041

Real Estate

Brokerage (P&P 2) 5 credits

The techniques of operating a real estate business from the management side. Includes a thorough study of the appraisal process, financing, and real estate investment analyses. Fulfills the Florida Real Estate Commission's educational requirement to apply for the broker's state exam. \$5.00 test fee. Prerequisite: Valid real estate license and active salesperson experience for six months. (5 hour lecture)

REE2085

Post Licensure

Education for Salespersons 3 credits
Is a state required course that all newly licensed salespersons must complete within two years of obtaining their first sales license. This survey course covers finance, appraising, salesmanship, property management and office management. It is the intent of the Florida Real Estate Commission that this course prepare a new licensee in a more functional and in-depth basis than does the

REE2180

Real Estate Appraisal 1 4 credits

license course. (3 hour lecture)

An introduction to the appraisal process and the different approaches, methods and techniques used to determine the value of various types of property. Emphasis will be on residential and investment property valuation. Prerequisite: REE 2040 or possession of a valid real estate salesperson license. (4 hour lecture)

REE2181

Real Estate Appraisal 2 4 credits

This course is designed to enable the student to perform state certified real estate appraisals on income producing property. This course will satisfy state requirements and will prepare the student to sit for the Certified Real Estate Appraiser Course State exams. (4 hour lecture)

REE2200

Real Estate Finance 3 credits

Methods of financing Real Estate, in fixed rate, variable rate, FHA, VA, and graduated mortgage compared from the lenders', and the borrowers' point of view. Creative financing techniques such as buy-downs and wraparound mortgages will be discussed. (3 hour lecture)

REE2270

Mortgage Banking and Brokerage

3 credits

Development of an understanding of the finance industry as it relates to real estate. Detailed information concerning legal aspects of mortgages, brokerage regulation, ethics and all major source of funds for real estate financing will be covered. Prerequisite: REE 2200. (3 hour lecture)

Religion

REL1210

Religion of

the Old Testament 3 credits
The historical sources and material in the Old

Testament, with emphasis on its literary and cultural importance. (3 hour lecture)

REL1243

Religion of

the New Testament

3 credits

The historical sources and material in the New Testament, with emphasis on its literary and cultural importance. (3 hour lecture)

REL2121

Survey of

Religion in the U.S. 3 credits

A survey of non-native American religions in the United States from the 17th century to the present and their impact on American culture. The course will examine four general areas: the colonial era; the religions of the frontier, the South and African-American responses to before and after the Civil War; the 19th century continuing social, political and theological tension. (3 hour lecture)

REL2300

Survey of World Religions 3 credits
A survey of the origins, beliefs and contem-

A survey of the origins, benefs and contemporary practices of the world's religions: Hinduism, Islam, Taoism, Zen Buddhism, Judaism, Christianity and Confucianism. Attention is given to the interactions between specific religions and the cultures in which they are practiced. (3 hour lecture)

REL2600

Jewish History and Culture 3 credits
A survey of the development of Jewish history and culture from Biblical times to the

present. (3 hour lecture)

Respiratory Therapy Technician

RET1007

Pharmacology for Respiratory

Therapy Technicians 1 credit
Basic principles of the administration of

Basic principles of the administration of medications including dosage and solutions. The drugs administered by respiratory therapy practitioners are covered in depth, along with an introduction to the general pharmacologic classifications of other drugs that may be administered to pulmonary patients. Corequisites: RET 1484, 2274, 2274L. (1 hour lecture)

00 2008-10 CATALOG

RET1024

Introduction to

Respiratory Therapy 2 credits Introduction to the field of respiratory therapy including terminology, basic microbiology, basic patient care techniques, cardiopulmonary resuscitation and professional history. Prerequisites: BSC 2085, 2085L, 2086, 2086L, RET 1024L; corequisite: RET 1024L. (2 hour

Introduction to Respiratory

Therapy Laboratory Laboratory for RET 1024. Corequisite: RET 1024. Laboratory fee. (2 hour lab)

RET1273

Technician 3

lecture)

Respiratory Therapy

Theory and techniques of airway care, manual resuscitators, oxygen analyzers, and mechanical ventilation. Prerequisite: RET 2275. Laboratory fee. A.S. degree credit only. (2 hour lab)

RET2264

Advanced Modalities

and Monitoring 2 credits A concentrated course relating to critical care invasive and noninvasive monitoring, EKG, alternatives to conventional ventilation and advanced cardiovascular support systems. Prerequisites: RET 2284, 2284L; corequisites:

RET 2280, 2834, 2714. (2 hour lecture)

RET2350

Respiratory Therapy

Pharmacology 2 credits This course is designed to provide training in the basic principles of the administration of medications including dosage and solutions. The drugs administered by respiratory therapists are covered in-depth, along with an introduction to the general pharmacological classifications of other drugs that may be administered to pulmonary patients.

Prerequisites: CHM 1033, RET 1484, 1484L;

corequisites: RET 2503, 2275, 2275L. (2 hour

lecture) RET2414

Pulmonary Studies 2 credits

In-depth study of diagnostic techniques in the field of pulmonary medicine which includes lung volumes, static and dynamic mechanics of breathing, ventilation, distribution of gases, diffusion and arterial blood gas sampling and handling. Corequisite: RET 2414L. (2 hour lecture)

RET2414L

Pulmonary Studies

Laboratory 1 credit Laboratory for RET 2414. Simulated clinical settings of diagnostic techniques used to evaluate pulmonary functions. Laboratory fee. (2 hour lab)

RET2503

Respiratory Therapy

Pathophysiology 2 2 credits This course is designed with emphasis on specific cardiopulmonary disease: in-depth focus on diagnosis, treatment and post disease effects related to cardiopulmonary pathologies. Prerequisite: RET 1484; corequisite: RET 2275. (2 hour lecture)

RET2601

Respiratory Care

Seminar 3 credits A concentrated course of study which focuses on problem based learning using clinical simulations. Areas of study include legal and ethical concerns, home care, extended care, rehabilitation and management. ACLS certification obtained. Prerequisites: RET 2264, 2714, 2280; corequisite: RET 2835. (3 hour lecture)

RET2714

2 credits

Pediatric/Neonatal Care 2 credits

This course is designed to provide training in pediatric and neonatal respiratory care assessment and therapeutic techniques related to critical care. Assessment and therapeutic techniques related to critical care. Prerequisites: RET 2284, 2284L; corequisites: RET 2280, 2834, 2264. (2 hour lecture)

RET2832

Respiratory Therapy

In conjunction with RET 2274, 2274L and RET 1024, 1024L, 2832 is designed to allow the student to develop psychomotor skills related to basic respiratory care and patient procedures (patient charting, vital signs, infection control and non-pressurized oxygen adjuncts). During the rotation, the student is provided with the opportunity to apply and discuss the theory and techniques as presented in corequisite courses. Corequisites: RET 1024, 1024L, 1484, 1484L, 2274, 2274L, 2350. A.S. degree credit only. (3 hour clinic)

RET2833

Respiratory Therapy Clinic 2 5 credits

In conjunction with RET 2274, 2274L and RET 1024, 1024L, RET 2832 is designed to allow the student to develop psychomotor skills related to basic respiratory care and patient care procedures (patient charting, vital signs, infection control and non-pressurized oxygen adjuncts). During the rotation, the student is provided with the opportunity to apply and discuss the theory and techniques as presented in corequisite courses. Corequisites: RET 1024, 1024L 1484, 1484L, 2274, 2274L, 2350. (15 hour clinic)

Respiratory Therapy

This course is a continuation of RET 2833. Training will be provided on the clinical application of procedures and techniques relating to respiratory critical care. Prerequisites: RET 2284, 2284L; corequisites: RET 2280, 2834, 2714. A.S. degree only. (24 hour clinic)

Respiratory Therapy Technology

Respiratory Therapy

Technician Pathophysiology 1 2 credits In-depth study of pulmonary and cardiovascular anatomy, physiology and pathology. Terminology, disease classification, diagnostic techniques and related physiological concepts such as fluid and electrolyte balance are emphasized. Prerequisites: BSC 2085, 2085L. (2 hour lecture)

RET1484L

Respiratory Therapy

Pathophysiology

Laboratory 1 1 credit

This course is designed to provide training in the basic principles of pulmonary and cardiovascular anatomy, physiology and pathology. Diagnostic techniques and related physiological concepts are emphasized. (2 hour lab)

RET2008

Respiratory Therapy

Pharmacology 1 credit

Theory, origin, and sources of drugs used in respiratory therapy as well as the effects and conditions influencing their actions. Prerequisites: RET 1007, CHM 1033. (1 hour lecture)

RET2274

1 credit

Respiratory Therapy

Theory 1 2 credits

Theory of supplemental oxygen and humidity in respiratory pathology. Special emphasis is given to the medical, surgical, and pediatric patients and their cardiopulmonary physiology as it relates to therapeutic oxygen techniques. Corequisites: RET 1024, 1484, 2274L. (2 hour lecture)

RET2274L

Respiratory Therapy

Theory Laboratory 1 1 credit Laboratory for RET 2274. Corequisite: RET

2274. Laboratory fee. (2 hour lab)

RET2275

Respiratory Therapy

Theory 2 2 credits

Emphasis on pressure breathing modalities, chest physiotherapy, and incentive devices. Prerequisite: RET 2274; corequisites: RET 2275L. (2 hour lecture)

RET2275L

Respiratory Therapy

Theory Laboratory 2 1 credit

Laboratory for RET 2275. Corequisite: RET 2275. Laboratory fee. (2 hour lab)

1 credit

RET2280

Therapy Care

8 credits

Critical Respiratory

In-depth study of critical respiratory care

covering medical, surgical, pediatric and emergency patients. The coordination of a respiratory care plan and advanced patient monitoring will be emphasized. Corequisite: RET 2835. (1 hour lecture)

2 credits



3 credits

RET2284

Principles of

Mechanical Ventilation A continuation of RET 2275. A concentrated course of study which focuses on the theoretical operation, application and procedures related to critical care and mechanical ventilation. A.S. degree credit only. Prerequisites: RET 2275, 2275L; corequisite: RET 2284L.

(2 hour lecture) RET2284L

Principles of Mechanical

Ventilation Laboratory 2 credits

Laboratory for RET 2284. This course will provide an in depth study of the operation of mechanical ventilation devices and associated monitors. Patient safety, troubleshooting and application are stressed. Corequisite: RET 2284. Laboratory fee. A.S. degree credit only. (4 hour lab)

Respiratory Therapy

Clinic 4 8 credits

This course is designed to provide the student with the clinical application of adult, pediatric, and neonatal intensive respiratory care. Procedures and techniques presented in RET 2280, 2714, 2264 as it relates to their clinical application will be emphasized. A.S. degree credit only. Prerequisite: RET 2834; corequisite: RET 2601. (24 hour clinic)

RET2836

8 credits **Clinical Practice 5**

This course is a continuation of Clinical Practice 4. Special emphasis on adult, pediatric, and neonatal intensive respiratory care. Prerequisites: RET 2275L. (24 hour clinic)

Risk Management and Insurance

RMI2804

Wealth Accumulation

Planning 3 credits

The principles of real estate investment are examined including: risk and return; the acquisition, ownership, and disposition of property; principles of loan amortization and depreciation; capital gains, and losses; installment sales; exchanges; cash flow analysis; creative financing and forms of real estate ownership. Other ideas studied center around retirement planning. A.S. degree credit only. (3 hour lecture)

Russian Lanquage

RUS1120

Elementary Russian 1 4 credits

An integrated (multi-media) approach to acquire proficiency in the basic skills (of the language)-listening/understanding, speaking, reading, writing, and cross-cultural awareness. Emphasis on practical vocabulary and accurate pronunciation. Practice in class and laboratory in understanding and using the spoken language; reading and writing with progressive grammatical explanations. (4 hour lecture)

RUS1121

Elementary Russian 2 4 credits

A continuation of RUS 1120. A proficiencyoriented course emphasizing the mastery of the basic skills of the language. Prerequisite: RUS 1120. (4 hour lecture)

Social Science

ISS1120

The Social

Environment 3 credits

The Social Environment is an interdisciplinary course that emphasizes the cultural, political and global dimensions of societies. Its main objective is to promote knowledge of contemporary and historical forces that shape our social environment and engage students in a life-long process of inquiry and decision-making. (3 hour lecture)

ISS1161

The Individual

in Society 3 credits

This is an interdisciplinary course that emphasizes understanding of oneself as a unique individual who, as part of global community, is responsible for decisions affecting his/her psychological, social, environmental, and physical well-being. Main themes include personality and self, society and culture, development and the life cycle, and the maintenance of physical and psychological health. (3 hour lecture)

ISS1935

Social Science

Seminar 1-3 variable credits Small group and individual work, to analyze in greater depth issues arising out of the interdisciplinary approach to the study of social environment and social economic change; designed fro those students who are engaged in or have completed ISS 1120. (1-3 hour seminar)

Social Work

SOW2054

Social Service

Field Experience 1 1-3 variable credits Directed field work with selected community service agencies involving direct student-client relationships with continuous in-service training and supervision. (The student is expected to log a total of 40-120 hours)

SOW2055

Social Service

Field Experience 2 3 credits

A continuation of SOW 2054 for the student desiring a more extensive experience. Prerequisite: SOW 2054. (Variable hours)

Sociology

SYG2000

Introduction to Sociology

This course engages in a scientific study of society providing an overview of sociology as a social science. It includes its development as a discipline and methodology. It examines culture as a basis for human behavior, how it is acquired and its norms obeyed. It explores the issues of social inequality within society, including the issues of ethnicity and gender The issues of social change and social institutions are examined, along with those of

demography and urbanization, together with

the great challenges these currently pose to

SYG2010

Social Problems 3 credits

the modern world. (3 hour lecture)

An analysis of the major contemporary and recurring social problems, emphasizing scientific search for variables involved and exploring alternative solutions. (3 hour lecture)

SYG2110

Introduction to

Social Research 3 credits

A general introduction to research methodology in the Social Sciences, paying particular attention to research design, data collection and data analysis. (3 hour lecture)

Multi-Ethnic America 3 credits

An introduction to the theory and problems of minority groups in American society. The focus is on structural inequality, institutional discrimination, and the changing patterns of prejudice and discrimination. (3 hour lecture)

SYG2430

Marriage and

the Family 3 credits

The family as a social institution-its origin and development, its forms and functions, its interrelation with other social institutions, and its role in contemporary civilization. Areas of study include factors contributing to or acting against successful, stable marriage. (3 hour lecture)

Sonoqraphy

SON1000L

Introduction to

Sonography 1 1 credit

An introduction to the physical principles of diagnostic ultrasound. Bases of imaging with ultra sound are discussed as well as clinical units in the various areas of specialization. In conjunction with the lectures, supervised laboratory classes are conducted to familiarize students with operations of the equipment in each of the clinical areas. Corequisites: SON 1111C, 1121C. (2 hour lab)



SON1001L Introduction to Sonography 2

1 credit

This second introductory course will cover the past present and future of sonography. After the historical landmarks are identified, the focus will be on the current diversity of applications of diagnostic medical sonography. Students will also discover future trends and developments on the technology horizon of the profession. Prerequisite: SON 1000L. (2 hour lab)

SON1005L

Basic Sonography 2 credits

This course is designed to cover the essential of the profession of Diagnostic Medical Sonography. Topics include: professionalism, medical ethics, hospital administration, sonographic terminology, quality assurance, photographic principles, related radiological specialties and scanning techniques. Laboratory experience will include equipment use and quality assurance techniques. Prerequisite: SON 1000L. Laboratory fee. (4 hour lab)

SON1006L

Professional Aspects

of Sonography 1 credit

An introduction to the professional aspects of sonography. Topics include: medical ethics and law, hospital administration, quality assurance/quality control and management. Laboratory experience includes actual phantom scanning conducting equipment QA protocols, and participation on a mock ethics board. (2 hour lab)

SON1100L

Principles of

Protocols of Imaging 2 credits An introduction to radiographic film, its handling & processing and the various radio-

An introduction to radiographic film, its nandling & processing and the various radiographic specialties. Laboratory experience includes: film composition and identification, rapid processing, photographic techniques, reading H&D curves, performing sensitometry and identifying film artifacts. During radiographic specialties, there will be an introduction to CT, MRI, and the areas of radiologic technology in order to discover how these modalities compliment sonography. (4 hour lab)

SON1111C

Abdominal Sonography 1 2 credits

An in-depth course designed to cover all aspects of clinical abdominal ultrasound studies. Subject matter includes: review of normal anatomy (ultrasonic appearance), indications for ultrasound studies, clinical presentation and data, pathophysiological basis of disease, ultrasonic manifestations of diseases, recognition of adequate images and scanning pitfalls. Corequisite: SON 1000L. (1 hour lecture; 2 hour lab)

SON1112C

Abdominal Sonography 2 2 credits An in-depth course designed to cover all aspects of clinical abdominal ultrasound studies. Subject matter includes: review of normal

anatomy (ultrasonic appearance), indications for ultrasound studies, clinical presentation and data, pathophysiological basis of disease, ultrasonic manifestations of diseases, recognition of adequate images and scanning pitfalls. Prerequisite: SON 1111C. Laboratory fee. (1 hour lecture; 2 hour lab)

SON1113L

Sonography Cross

Sectional Anatomy 2 credits

A thorough course aimed at teaching the student to understand anatomical relationships and recognize structures on cross-sectional and sagittal diagrams, photographs of gross anatomy and sonography. The laboratory conducted in conjunction with the classroom lectures is designed to identify all normal anatomical landmarks in multiple planes in actual scanning situations. (4 hour lab)

SON1115L

Duplex Abdominal

Sonography 1 credit

This course is designed to cover aspects of duplex abdominal sonography applications. Topics include: the aorta and its branches, the IVC and its tributaries, and the portal system. Subject matter includes: etiology, pathophysiology, clinical presentations, sonographic appearance and differential diagnosis of diseases. Prerequisite: SON 1112C. (2 hour lab)

SON1121C

Obstetrics/Gynecology

Sonography 1 2 credits

An in-depth course designed to present all aspects of clinical OB/GYN ultrasound studies. Subject matter includes: review of normal anatomy (ultrasound appearance), indications for ultrasonic studies, clinical presentation, clinical data, pathophysiological basis of disease, ultrasonic manifestations of diseases, recognition of adequate images and scanning pitfalls. Corequisite: SON 1000L. (1 hour lecture; 2 hour lab)

SON1122C

Obstetrics/Gynecology

Sonography 2 2 credits

An in-depth course designed to cover all aspects of clinical OB/GYN ultrasound studies. Subject matter includes: review of normal anatomy (ultrasound appearance), indications for ultrasonic studies, clinical presentation, clinical data, pathophysiological basis of disease, ultrasonic manifestations of diseases, recognition of adequate images and scanning pitfalls. Prerequisite: SON 1121C. (1 hour lecture; 2 hour lab.)

SON1141C

Small Parts Sonography 2 credits

An in-depth course designed to cover all aspects of clinical abdominal ultrasound studies. Subject matter includes: review of normal anatomy (ultrasonic appearance), indications for ultrasound studies, clinical presentation and data, pathophysiological basis of disease, ultrasonic manifestations of diseases, recognition of adequate images and scanning pitfalls. Prerequisite: SON 1112C. (1 hour lecture; 2 hour lab)

SON1145L

Pediatric Sonography 1 credit

This course is designed to cover aspects of pediatric ultrasound examinations. Topics include: Liver, biliary, spleen, renal, adrenal, gastrointestinal, scrotum, and musculoskeletal structures. Subject matter includes: etiology, pathophysiology, clinical presentations, sonographic appearance and differential diagnosis. Prerequisite: SON 1141C. (2 hour lab)

SON1804

Clinic 1 2 credits

This is the first in a series of six (6) clinics in which the student is assigned to a medical facility. The student is afforded a hands-on experience in sonography under the supervision of a clinical instructor, sonographer or physician. Corequisite: SON 1000L. (16 hour clinic)

SON1814

Clinic 2 2 credits

This is the second in a series of six (6) clinics in which the student is assigned to a medical facility. The student is afforded hands-on experience in sonography under the supervision of a clinical instructor, sonographer or physician. Prerequisite: SON 1804. (8 hour clinic)

SON1824

Clinic 3 3 credits

This is the third in a series of six (6) clinics in which the student is assigned to a medical facility. The student is afforded hands-on experience in sonography under the supervision of a clinical instructor, sonographer or physician. Prerequisite: SON 1814. (24 hour clinic)

SON2061L

Seminar in

Sonography 1 credit Students will participate in the various type of continuing education. This may

type of continuing education. This may include: society meetings, seminars, conferences and in-services. (2 hour lab)

SON2139L

Cardiovascular Principles 1 credit

An introductory course to techniques other than echocardiography utilized in the diagnosis of cardiovascular disease. Topics discussed include physical examination, electrocardiogram, Phonocardiogram, cardiac catherization, and nuclear medicine cardiology. Prerequisite: SON 2400C; corequisite: SON 2401C. (2 hour lab)

SON2161C

Neurosonography 2 credits

A comprehensive course designed to examine sonographic imaging of the neonatal and infant brain, with an introduction to ultraoperative brain and spinal cord imaging. Emphasis is placed on normal brain anatomy, congenital and malformations and acquired pathologic conditions. Prerequisites: SON 1113L, 1141C. Special fee. (1 hour lecture; 2 hour lab)



SON2171C

Vascular Sonography 2 credits

This course is designed to cover aspects of Clinical Vascular Technology. Topics include the pathophysiological levels of disease, clinical presentation and data, hemodynamic of blood flow, anatomy and physiology of the vascular system and anatomical appearance. Prerequisite: SON 2161C. (1 hour lecture: 2 hour lab)

SON2400C

Echocardiography 1 2 credits

An in-depth course designed to present all aspects of clinical cardiovascular ultrasound studies. Topics discussed are: pathophysiological basis of diseases, clinical presentation and clinical data, Doppler and echocardiographic findings in disease, hemodynamic relationships, scanning pitfalls and differential diagnosis. Prerequisite: SON 1000L. (1 hour lecture; 2 hour lab)

SON2401C

Echocardiography 2 2 credits

An in-depth course designed to cover all aspects of clinical cardiovascular ultrasound studies. Topics discussed are pathophysiological basis of diseases, clinical presentation and clinical data, Doppler and echocardiographic findings in disease, hemodynamic relationships, scanning pitfalls and differential diagnosis. Prerequisite: SON 2400C. (1 hour lecture; 2 hour lab)

SON2614C

Acoustical Physics

and Instrumentation 1 2 credits

The course will present a review of fundamental physics and in-depth study of the physical principles of diagnostic ultrasound. Topics discussed include: properties of sound waves, interaction of sound waves with matter, generation of ultrasound and principles of Doppler ultrasound. Prerequisite: SON 1005L. (1 hour lecture; 2 hour lab)

SON2618C

Acoustical Physics

and Instrumentation 2 2 credits
Physical principles of Ultrasound
Instrumentation -A course designed to familiarize the student with the physical principles and modes of operation of diagnostic ultrasound equipment. Subject matter includes: transducers, display systems, component parts of a scanning system, real-time scanners, Doppler equipment, quality control, routine maintenance and recent developments. Prerequisites: SON 2614C, CGS 1060.
(1 hour lecture; 2 hour lab)

SON2619C

Doppler Principles and Instrumentation 2 credits

This course presents a review of fundamental physics and an in-depth study of Doppler Physical Principles of Diagnostic Ultrasound. Topics also include Doppler Instrumentation, equipment, display systems, quality control, and hemodynamics of blood flow. Prerequisite: SON 2618C. Laboratory fee. (1 hour lecture; 2 hour lab)

SON2834

Clinic 4 2 credits

This is the fourth in a series of six (6) clinics in which the student is assigned to a medical facility. The student is afforded hands-on experience in sonography under the supervision of a clinical instructor, sonographer or physician. Prerequisite: SON 1824. (16 hour clinic)

SON2844

Clinic 5 3 credits

This is the fifth in a series of six (6) clinics in which the student is assigned to a medical facility. The student is afforded hands-on experience in sonography under the supervision of a clinical instructor, sonographer or physician. Prerequisite: SON 2834. (24 hour clinic)

SON2854

Clinic 6 3 credits

This is the last in a series of six (6) clinics in which the student is assigned to a medical facility. The student is afforded hands-on experience in sonography under the supervision of a clinical instructor, sonographer or physician. Prerequisite: SON 2844. (24 hour clinic)

SON2910L

Directed Research 1 credit

This course is designed to afford students an opportunity to develop their research skills, broaden their educational horizons, and further investigate a particular area of interest in the field of ultrasound. Students will select a topic for research, investigate and gather information, and compile the results for presentation, competition and publication. (2 hour lab)

SON2930L

Seminar in Sonography 1 credit

Students will participate in the various types of continuing education. This may include: society meetings, seminars, conferences and in-services. (2 hour lab)

SON2931L

Film Critique 1 1 credit

An extensive laboratory to prepare the student to recognize quality images, anatomy, patient positioning, pathology, and scanning technique errors as well as artifacts. For each class, the student will present a case from their current rotation of the teaching file. The class includes all technical and clinical information as well as interpretation by the supervising physician. Prerequisite: SON 1000L. Laboratory fee. (2 hour lab)

SON2932L

Film Critique 2 1 credit

An extensive laboratory to prepare the student to recognize quality images, anatomy, patient positioning, pathology, and scanning technique errors as well as artifacts. For each class, the student will present a case from their current rotation of the teaching file. The class includes all technical and clinical information as well as interpretation by

the supervising physician. Prerequisite: SON 2931L. Laboratory fee. (2 hour lab)

SON2933L

Film Critique 3

1 credit

An extensive laboratory to prepare the student to recognize quality images, anatomy, patient positioning, pathology, and scanning technique errors as well as artifacts. For each class, the student will present a case from their current rotation of the teaching file. The class includes all technical and clinical information as well as interpretation by the supervising physician. Prerequisite: SON 2932L; corequisite: SON 2401C. (2 hour lab)

SON2934L

Film Critique 4 1 credit

An extensive laboratory aimed at teaching the student to recognize quality images, anatomy, patient positioning, pathology, and scanning technique errors as well as artifacts. For each class, the student will present a case from their current rotation of the teaching file. The presentation will include all technical and clinical information as well as the final interpretation by the supervising physician. Prerequisite: SON 2933L. Laboratory fee. (2 hour lab)

SON2935L

Film Critique 5 1 credit

An extensive laboratory aimed at teaching the student to recognize quality images, anatomy, patient positioning, pathology, and scanning technique errors as well as artifacts. For each class, the student will present a case from their current rotation of the teaching file. The presentation will include all technical and clinical information as well as the final interpretation by the supervising physician. Prerequisite: SON 2934L. Laboratory fee. (2 hour lab)

SON2950L

Journal Review

1 credit

Students select scientific articles from sonography journals for review and presentation in class. (2 hour lab)

Spanish Language and Literature

SPN1000

Elementary Spanish

Conversation 3 credits

A course emphasizing conversational Spanish. Extensive use is made of oral exercises and audio tapes. This course cannot be substituted for SPN 1120 or SPN 1121. Offered through Overseas Study Program. Prerequisite: Permission of department chairperson. (3 hour lecture)

SPN1030

Spanish for

Health Professionals 1 4 credits

Conversational Spanish for students in the Allied Health programs only. Emphasis is on the practical application of Spanish to situations relative to patients and personnel. A.S. degree credit only. (3-4 hour lecture)

SPN1031 Spanish for

Health Professionals 2 4 credits Spanish 1031 will enable communication with Spanish-speaking patients at an intermediate level. The level of exchange in these emergency situations is typical of circumstances that occur in real life. The course contains different communicative activities from simple to complex to facilitate the student's progression throughout the course. A.S. degree credit only. (3-4 hour lecture)

SPN1120

Elementary Spanish 1 4 credits

An integrated (multi-media) approach to acquire proficiency in the basic skills of the Spanish language (listening/understanding, speaking, reading, writing, and cross-cultural awareness). Emphasis on practical vocabulary and accurate pronunciation. Practice in class and laboratory in understanding and using the spoken language; reading and writing with progressive grammatical explanations. (4 hour lecture)

SPN1121

Elementary Spanish 2 4 credits

A continuation of SPN 1120. A proficiencyoriented course emphasizing the mastery of the basic skills of the language. Prerequisite: SPN 1120. (4 hour lecture)

SPN1170

Spain Travel Study 3-6 variable credits
A course designed for students who wish to
combine the study of Spanish with subsequent travel to a Spanish-speaking country.
Prerequisites: SPN 1000, 1120 or permission
of instructor. Offered through overseas study
program. (3 hour lecture)

SPN2201

Intermediate Spanish 2 3 credits

Understanding, speaking, reading, writing and cross-cultural awareness, through a systematic review of reading and writing skills with emphasis on oral as well as written expression. (3 hour lecture)

SPN2220

Intermediate Spanish 1 4 credits Spanish culture learned through a systematic review of reading and writing skills with emphasis on oral as well as written presentations. Prerequisite: SPN 1121 or equivalent. (4 hour lecture)

SPN2240

Intermediate Spanish 1

Conversation & Composition 3 credits Promotes facility in understanding, speaking and writing the language. Emphasis on everyday conversation. Prerequisite: SPN 2201 or equivalent. (3 hour lecture)

SPN2241

Intermediate Spanish 2

Conversation & Composition 3 credits Oral practice with idiomatic expressions; oral reports on collateral readings; class discussions. Prerequisite: SPN 2240 or equivalent. (3 hour lecture)

SPN2340

Spanish for

Native Speakers 1 3 credits

Writing, spelling and punctuation, sentence structure and reading selections for vocabulary expansion as they are relevant to the training of individual students. Prerequisite: oral ability to communicate in Spanish or permission of department chairperson. (3 hour lecture)

SPN2341

Spanish for

Native Speakers 2 3 credits

A continuation of SPN 2340. Prerequisite: SPN 2340 or equivalent. (3 hour lecture)

SPT2842

Contrastive Analysis

Spanish/English 3 credits
Comparison/contrastive study of the phonol-

comparison/contrastive study of the phonoogy, morphology and syntax of Spanish and English. Recommended for students of translation and interpretation. Prerequisite: SPN 1121 or equivalent. (3 hour lecture)

SPW2010

Selected Readings

in Spanish Literature 3 credits
A study of outstanding works, authors, genres,

A study of outstanding works, authors, genres, or major literary currents in Spain. (3 hour lecture)

SPW2020

Selected Readings

in Latin American Literature 3 credits A study of outstanding works, authors, genres, or major literary currents in Latin America. (3 hour lecture)

Speech Communication

SPC1026

Fundamentals of

Speech Communication 3 credits SPC 1026 provides students with the oral communications skills necessary for success in personal, professional and educational settings. Through the study and experiential practice of interpersonal communication, presentational speaking and group dynamics of communication and be able to use them effectively. This course the Gordon Rule. (3 hour lecture)

SPC2050

Voice and Diction 3 credits

Effective voice production and articulation, acceptable pronunciation, intonation, rhythm, and phasing, a consideration of elementary vocal anatomy and the fundamentals of the science of sound. Specific speech problems will be handled on an individual basis. (3 hour lecture)

SPC2511

Argumentation and Debate 3 credits
The principles of argumentation, including
analysis, evidence, inference and refutation,
and their application to issues of current

public interest. The course provides opportunities for debating practice. Prerequisite: SPC 2600 or equivalent. (3 hour lecture)

SPC2594

Forensic

Laboratory 1-3 variable credits

Advanced techniques of debate and other forensics, keyed primarily to those interested in intercollegiate forensic competition. Prerequisite: Permission of the instructor. May be repeated for credit. (2-6 hour lab)

SPC2600

Introduction to

Public Speaking 3 credits

Improves the basic skills of speaking and listening through classroom exercise, group discussion and public address. Special emphasis is given to the principles of logical organization. (3 hour lecture)

SPC2601

Advanced Public Speaking 3 credits
For students who have had a basic course
in speech or previous experience in public
speaking. The course provides participation
in such areas as contest, community and
on-campus speaking, and speech criticism.
Students receive instruction in audience analysis and rhetorical principles and strategies.

Prerequisite: SPC 2600. (3 hour lecture)

SPC2940

Peer Teaching

in Speech Communication 3 credits
Provides the opportunity for outstanding
speech students to advance their skills by
functioning as student teachers in speech
courses which they have completed successfully. Prerequisite: Permission of the department. (3 hour lecture)

Speech Pathology & Audiology American SIgn Language

ASL1000

Survey of Deaf Studies 3 credits

Provides an overview of aspects of deafness including demographics, audiology, education, rehabilitation, assistive devices and organizations on deafness and interpreting. (3 hour lecture)

ASL1140C

American Sign Language 1 4 credits Provides introductory information on the linguistics of American Sign Language and approximately 500 sign concepts. Course includes lecture, discussion and lab practice. (4 hour lecture)

ASL1150C

American Sign Language 2 4 credits
Provides continued instruction in the linguistic principles of American Sign Language
and an additional 500 sign concepts. Course
includes lecture, discussion and lab practice
which is conducted in ASL. Prerequisite: SPA
1612C. (4 hour lecture)



ASL2160C

American Sign Language 3 4 credits Provides linguistic principles of American Sign Language at the intermediate level and an additional 500 sign concepts. Lecture, discussion and lab practice are included. Students have increased opportunities for interaction with members of the deaf community. Increasingly, class sessions are conducted in ASL. Prerequisite: SPA 1613C. (4 hour lecture)

ASI.2200C

American Sign Language 4 4 credits Provides linguistic principles of American Sign Language at the advanced level and an additional 500 sign concepts, including idioms used in ASL. Lecture, discussion and lab practice are included. Class sessions are conducted predominately in ASL. Prerequisite: SPA 2614C. (4 hour lecture)

ASL2210

ASL Conversational Skills 3 credits

This course will provide practice communication in American Sign Language (ASL). Students will use previously acquired knowledge of ASL vocabulary and linguistic principles to communicate in the language. Prerequisite: SPA 2614C. (3 hour lecture)

ASL2220

Receptive Skills

Development 3 credits

The course will focus on increasing the students' receptive understanding of signed communications. Examples of American Sign Language (ASL) will be presented via videotapes and live interactions with deaf persons. Students will identify all the components and linguistic features of ASL and will provide appropriate English translations either in speech (paraphrasing) or in written form. Prerequisite: SPA 1613C. (3 hour lecture)

ASL2400

Linguistics of

American Sign Language 3 credits
Course is designed for persons who already
have an understanding of ASL principles.
Provides an overview of the various systems of manual communication used in the
U.S. including PSE, Cued Speech and signed

English. Prerequisite: SPA 2614C. (3 hour lec-

ture)

ASL2430 Manual Alphabet

Skills Development 3 credits

Content focuses on acquiring both expressive and receptive skill in the manual alphabet of American Sign Language, commonly known as fingerspelling. A performance test is given at the beginning of the course to determine existing competency. Prerequisites: SPA 1612C, 1613C. (3 hour lecture)

ASL2510

Deaf Culture

and Community 3 credits

The course provides and in-depth study of the lives and experiences of deaf and hard of hearing persons and it examines why many deaf people consider themselves to belong to a unique cultural group. Characteristics of the culture are examined along with the impact of hearing loss on one's family, friends and employment. Multicultural issues will be covered since the impact of hearing loss is addressed differently in various ethnic groups. Also examined are societal attitudes regarding disability in general and hearing loss and communication difficulties in particular. Prerequisites: SPA 1613C, 1630. (3 hour lecture)

SPA2001

Introduction to

Communication Disorders 3 credits
An introduction to functional and organic
speech problems which interfere with oral
communications and to the profession of
speech science and correction; speech and
hearing therapy, in public, private, or governmental agencies. (3 hour lecture)

Statistics

STA202

Statistical Methods 3 credits

The student in this course will acquire knowledge in the following topics: Collecting, grouping, and presenting data; measures of central tendency and dispersion; probability; testing hypotheses; confidence intervals, and correlation. Special fee. (3 hour lecture)

STA2122

Statistical Methods for the Behavioral & Social Science 3 credits

Designed for students majoring in psychology, sociology, social work, education, political science, and journalism; not for students majoring in mathematics, science, or business. Topics include collecting and presenting data; measures of central tendency and variability; probability and the normal curve; sampling techniques; confidence intervals; testing null hypotheses by the Z score,T ratio, and F ratio; nonparametric statistical tests; correlation; applying statistical procedures to research problems in behavioral and social sciences. Prerequisite: Acceptable score on the Algebra Placement Test or equivalent. (3 hour lecture)

STA3164

Statistical Methods 2 3 credits

Topics include tests of variance, analysis of variance, analysis of covariance, regression, correlation, and non-prametric statistics. Prerequisites: MAC 2312 or STA 2023 (3 hour lecture)

Student Life Skills

SLS112

Student Support Seminar 3 credits

This three credit course is intended for students that have been placed on Academic Warning. It is designed to help students be more successful academically by focusing on performance in a learning environment. This

will include social, cultural, psychological and academic aspects of the individual and the role they play in the learning environment. (3 hour lecture)

SLS1130

College Survival Seminar 1 credit

An introduction to the campus, college policies, student services and self-discovery for entering freshmen. (1 hour lecture)

SLS1310

Introduction to

Health Careers 3 credits

An examination of various career fields in the health professions with an assessment made of student interests and career goals relative to the demands of selected health care fields. Emphasis is placed on the role of patient care and on interaction with health care professionals. A.S. degree credit only. (3 hour lecture)

SLS1401

Psychology of

Career Adjustment 1-6 variable credits

For students who have not decided, are having difficulty deciding, or need clarification in making a career choice. A format for a systematic investigation for career and life planning is included. It is concerned with "who you are," "where are you going," "how to get there," and "what's out there that fits you." Special fee. (1-6 hour lecture)

SLS1502

Skills

College Study

1-3 variable credits

Skills, techniques and procedures for mastering study strategies such as taking classroom and lecture notes, mastering tests, developing memory/recall, actively listening, and proper management of time. (1-3 hour lecture)

SLS1505

College Survival Skills 1 credit

This one credit course is intended for students that place into one college preparatory course. It offers students an introduction to college life and self-discovery leading toward a successful career path. Also, it exposes students to methods and techniques for mastering learning skills. This course will have a mathematics module designated for students that place into a college preparatory mathematics or algebra course. (1 hour lecture)

SLS1510

Preparing for

Student Success 3 credits

This three credit course is designed to assist students in the development and achievement of their academic, vocational and personal goals. The course objectives are organized into four units: I Foundations for Success; II The Learning Environment; III Planning for Academic and Vocational Success and IV Understanding Mathematics for Classroom Success. Academic involvement is an integral part of this course and success is determined by attendance, participation, written assignments, tests and project presentations. (3 hour lecture)

Surveying

SUR1001C

Construction Survey 3 credits Practice of surveying as related to the building and construction industry. Includes a combination of classroom instruction and practical field problems with the tape, level and transit. Special fee. (2 hour lecture; 2 hour lab)

SUR1101C

Surveying 1 4 credits

The theories and practices in surveying and the use of the principal types of surveying instruments in horizontal and vertical planes. Problems include the measurement of distance; the use of compass, sextant, transit traverse, stadia, and basic mapping. Field and laboratory practice are required. Prerequisite: EGS 1111C, ETD 1200. Laboratory fee. (2 hour lecture; 4 hour lab)

SUR1202C

Surveying 2 4 credits

Advanced study in route, land, and mapping surveying to include triangulation, astronomic observations, topographic and photogrammetric mapping. Field demonstrations and surveys performed with many modern types of survey instruments. Prerequisite: SUR 1101C. Laboratory fee. (2 hour lecture; 4 hour lab)

SUR2330C

Photogrammetry 1 3 credits

Art and science of obtaining reliable information through the use of photographs. More specifically, its application to surveying and the production of land maps. Include basic theory, project planning ground control, principles of plotting, and preparation of mosaics. Prerequisite: Permission of department chairperson. (2 hour lecture; 2 hour lab)

SUR2400C

Land Surveying 1 3 credits

The theory and practice of land surveying, subdivision, filing and recording deeds; United States Government survey of public land; Florida laws governing land surveys, descriptions, coordinate systems and professional licensing. Field surveys are performed. Prerequisite: SUR 1101C. (2 hour lecture; 2 hour lab)

SUR2404C

Land Surveying 2 3 credits

Emphasizes the practice of surveying and the writing of legal descriptions. Areas studied include legal principles of retracement under Federal rules, combination of sequence and simultaneous conveyances, locating reversion rights, riparian and littoral owners, state statutes and regulations, standards of practice, field and office guidelines, performing the survey, legal authority and liability of the surveyor. (2 hour lecture; 2 hour lab)

Teaching English as a Second Language

TSL3241

Applied Linguistics 3 credits

This course provides an introduction to the analysis and classroom application of Linguistic theories in the field of second language acquisition for LEP (Limited English Proficient) students. Required for Florida Add-On-ESOL Endorsement. (3 hour lecture)

TSL3526C

Cultural Dimensions of ESOL

This course provides an overview of topics related to cross-cultural communication by introducing students to the cultures of different U.S. language groups with a focus on language groups found in Florida. Students develop an awareness and understanding of the complexities surrounding language, culture, and learning in order to meet the needs of linguistically and culturally divers learners. Required for Florida Add-On ESOL Endorsement. (3 hour lecture)

TSI.4140C

TESOL Curriculum

and Materials 3 credits

This course provides knowledge and application of TESOL theories, principles, and current research in the analysis, planning, design and evaluation of curriculum and materials appropriate for LEP (Limited English Proficient) students. Required for Florida Add-on ESOL Endorsement. (3 hour lecture)

TSL4324C

ESOL Strategies

for Content Area Teachers

This course provides students taking education courses in content areas with strategies for analyzing, applying and adapting ESOL methods, curriculum, and assessment to enhance instruction for linguistically and culturally diverse students. Fulfills META requirements for content-area teachers with LEP (Limited-English Proficient) students - except primary language arts and ESE instructors. Minimum 20 hours of structured field experience required. (3 hour lecture)

TSL4340C

TESOL Methods 3 credits

This course provides knowledge and application of TESOL theories, principles, and current research in the understanding and use of instructional techniques and methodologies appropriate for teaching LEP (Limited English Proficient) students. Minimum 20 hours of structured field experience required. Required for Florida Add-On ESOL Endorsement. (3 hour lecture)

TSL4441C

ESOL Testing and Evaluation 3 credits

This course provides knowledge and application of TESOL theories, principles, and current research in the selection, development, and adaptation of assessment instruments/evaluation materials appropriate for

LEP (Limited English Proficient) students, including study of standardized ESOL instruments. Minimum 20 structured hours of field experience required. Required for Florida Add-On Endorsement ESOL Endorsement. (3 hour lecture)

Theater Arts

THE124

Musical Theatre History 3 credits

A course for the musical theater major tracing the evolution of what is essentially an American art form from its inceptions in minstrel shows and river-boat entertainments to its present status as a major component on the international theater scene. (3 hour lecture)

THE1925

Studio Theatre Production 3 credits

Theoretical and practical experience with all aspects of studio theatre production including design, directing, lighting, technical and casting. The course will include faculty supervised public performances. May be repeated for credit. Prerequisite: Permission of department chairperson. (3 hour lecture)

THE2000

Theatre Appreciation 3 credits

The development of drama from its beginning to contemporary theatre. Included are the analyses and study of major plays exemplary of outstanding periods of theatre history. Required of drama and drama education majors. (3 hour lecture)

THE2051

Children's Theatre

Production 3 credits

The theory of children's theatre, its development with the American theatrical scene, its function within the American community and applications of the theories in actual productions before audiences. (3 hour lecture)

THE2052

Children's Theatre Workshop 3 credits

Application of the theories of children's theatre and utilization of the associated arts and skills of directing, stage design, lighting, costume design and theatre management in actual production of children's plays. Prerequisite: THE 2051 or TPA 1200, 1220 or equivalent. (3 hour lecture)

THE2083

Theatre Problems 1-3 variable credits

This is an advanced course for theatre majors who have already earned credit in a required subject or who have demonstrated that they are capable of advanced, highly specialized work in a particular area of requirements and objectives. Possible areas of study include advanced scene work; intensive training in particular acting methods; playwriting; and directing. Students are assigned to a teacher, who will design, supervise, and evaluate their projects. May be repeated for credit. (1-3 hour lecture)



TPA1200

Stagecraft

3 credits

A basic study of technical theatre practices with emphasis on scenery construction, rigging and prop construction. This course may be taken concurrently with TPP 1110. (2 hour lecture; 2 hour lab)

TPA1202 Introduction to

Entertainment Technology 3 credits An historical overview of the scope, current trends, methods and vocabulary connected with the variety of venues used for live entertainment (arenas, stadiums, discos, theater-auditorium, convention centers, casinos, recorded entertainment at film and video sound stages and music studios); the producing organizations of entertainment and their different styles of production management (sports, music film, video, dance, theater, theme parks); and the business aspects of equipment vendors and leasing companies. An overview of theatrical unions, engineering and professional groups and their influence on standard practices will also be addressed. (3 hour lecture)

TPA1210

Theatre Production 1 3 credits

This course is designed to give the student an overview of some aspects of theatre production. The course encompasses scenery construction, scenery painting, prop construction, stage lighting, audio techniques, theatre and stagecraft safety practices and backstage organization. Students will be provided with hands-on experiences with equipment common in technical theater. Prerequisite: TPA 1210 (3 hour lecture)

TPA1215

Audio-Visual, Multi-Media 4 credits

This course presents the principles and practice of unpacking, unloading, setting up and operating visual aids for conference and convention, and A/V for industrial shows, conventions, concerts and special events. Also covered is media using recorded sound (A/V) and media accompanying live presenters (V/A) including 8, 16, 35 and 70 mm. movie, single and multi-media. Students will practice this technology in labs and in performance environment, under performance conditions. Prerequisite: Permission of department. (2 hour lecture; 4 hour Lab)

TPA1220

Lighting 3 credits

Technical theatre practices with emphasis on lighting, sound effects, and design concepts. (2 hour lecture; 2 hour lab)

TPA1225

Automation &

Computers 3 credits

This course presents the principles and practices of automated robotics lighting (intelligent lighting), automated machinery, rigging, wagons, turntables, lifts, event sequencing between pyro, multi-media, sound and stage lights, automated show control of up to ninety-nine elements of production and computerize control of light and sound. Prerequisite: Permission of department. (2 hour lecture; 2 hour lab)

TPA1230

Theatre Costuming 3 credits

An introduction to three basic areas of concentration in costuming history of dress, design concepts, and building techniques. (2 hour lecture; 2 hour lab)

TPA1248 Makeup for

the Stage

3 credits

An introduction to the art and techniques of makeup as used by the actor, theatrical designer, and technician. Special emphasis is given to straight makeup, age makeup, hair, character extension, and stylization. (3 hour lecture)

TPA1253

Entertainment Technology:

Technician 1 3 credits

This course presents the principles and practice of stage rigging, stage carpentry, road crew and gripping. Students will practice the use of hardware, knots, hemp, counter-weight and motorized flying system for scenery, curtains and ground rigging, temporary and permanent stages, sound stages or on location, expositions and/or special outdoor events. Also covered are the principles and practices of the installation and operation of wagons, winches, chain hoists and trusses, lighting equipment, sound for on-stage or studio performance, gripping for motion pictures or video production. Occupational health and safety issues are discussed and practiced. (2 hour lecture; 2 hour lab)

TPA1254

Entertainment Technology:

Technician 2 3 credits

This course is an advanced course in entertainment technology and continuation of the principles and practices covered in Entertainment Technology Technician 1. (2 hour lecture; 2 hour lab)

TPA1255

Concert &

Stage Lighting 4 credits

This course presents the principles and practices of installation and operation of lighting technology for a variety of entertainment venues: theater, dance, opera, rock and roll concert tours philharmonic orchestras, music festivals, industrial shows, theme parks. Special attention will be paid to venues for performances outdoors, indoors and on sound stages. Also covered are the principles and practices involved with the installation and operation of film studio, location grafting and equipment technology. AC and DC electrical current will be studied as it applies to lighting technology with special emphasis on power supplies, cabling electrics, and basic maintenance of generic equipment as currently used in the field. Occupational health and safety, fire safety and CPR are discussed and practices. Prerequisite: Permission of department. (2 hour lecture; 4 hour lab)

TPA1260

Concert &

4 credits

Stage Sound This course presents the principles and practices of the installation and strike of sound technology for a variety of entertainment venues: theater, dance and opera, rock and roll concert tours, orchestras, choirs and music festivals, theme parks, themed entertainment and industrial shows, special events, casino and cruise line shows. Special attention is paid to venues for performances outdoors, indoors and on sound stages. Also covered are the principles and practices associated with the installation and operation of film studio, location sound and sound studio set-up technology. Emphasis is placed on equipment and its specific use in the field together with practice in cabling, patching, system layout rigging and basic maintenance of generic equipment. Occupational health safety, fire safety issues and CPR are discussed and practiced. Prerequisite: Permission of department. (2 hour lecture; 4 hour lab)

TPA1274

Properties Practicals,

Non-Electrified Special Effects 3 credits

This course provides the student: the principles and practice of unloading, installing, pre-setting operating, striking, storing, loading and packing properties, practicals, physical effects and set dressing; the preparation, care and handling and clean-up of food used during a live performance and filming; the preparation, pre-set/strike, organization and storage of properties before, during and after performance and film shots. Students learn how to take instructions from management, designers and decorators for the installation and running for furniture, dressing and effects and executing cues for their movement and operation. Prerequisite Permission of department. (2 hour lecture; 2 hour lab)

TPA1275

Special Effects-Electrified

Laser & Pyrotechnics 3 credits

This course presents the principles and practice of operating scenic, mechanical, sound, and lighting special effects including laser light and pyrotechnics. Also covered are the standard practices, rules, regulations, procedures, guidelines and precautions for the safe operation of currently available devices used in industry today and those invented or special events. Prerequisite: Permission of department. (2 hour lecture; 2 hour lab)

TPA1290

Studio Theatre

Technical & Lighting 1 credit

Practical application of theatrical skills in technical support and lighting through participation in studio productions. May be repeated for credit. Prerequisite: THE 1925 or permission of department chairperson. (2 hour lab)

0**0** 2008-10 CATALOG

TPA2211

Theatre Production 2 3 credits

Covers costuming, makeup and theatre management. Costuming includes a knowledge of major costume periods, costume building and operation of shop machinery. The planning and creating of makeup designs and training in the management of theatre operations are also emphasized. Prerequisite: TPA 1210. (3 hour lecture)

TPA2233

Mainstage Production-

Costumes & Makeup 1 credit

Practical experience in theatrical costuming and makeup through participation in a major theatrical production. May be repeated for credit. Prerequisite: Permission of department chairperson. (2 hour lab)

TPA2256

Costumes &

Makeup 3 credits This course presents the principles and practices of unloading, receiving, unpacking and distributing costumes, wigs and accessories for live performances and the load-out duties of collecting and packing the same, and the equivalent duties for on-location trailers and/or studio wardrobe. Perform costume changes as well as other reshow and post production set-ups and strikes. Perform maintenance duties including laundry, repair, dyeing, starching, spot cleaning, ironing, pressing, steaming, shoe repair and painting, gluing, hand and machine sewing, embroidery, millinery pattern making, tailoring/alterations, leather work, beading and other costume crafts. The principles of make-up for the stage, studio and screen and preparation and maintenance of wigs, falls, and other hair pieces including beards and mustaches is also practiced. Taking instructions from management, designers, and supervisors, executing clues, collaborating with others part of a crew has equal emphasis along with occupational health, safety, fire safety and CPR principles and practices. (3 hour lecture)

TPA2276

Entertainment Technology:

Crafts 1 3 credits This course presents the principles and prac-

tices of woodworking, welding, smithing, casting, weaving, paperhanging, painting, ceramics, plaster sewing and plastics technology for the entertainment industry. State of the art tool technology, shop and field practice, health and safety standards will be emphasized. These crafts are entertainment industry oriented with a perspective that states that objects created are to be used for production. Prerequisite: Permission of department. (2 hour lecture; 2 hour lab)

TPA2277

Crafts 2 3 credits

This course is a continuation of the study of the principles and practices covered in Crafts 1. Prerequisite: TPA 2276 or departmental permission. (2 hour lecture; 2 hour lab)

TPA2291

Mainstage Production-

Technical & Lighting 1 credit

Practical application of theatrical skills in technical support, and lighting through participation in a major theatrical production. May be repeated for credit. Prerequisite: Permission of department chairperson. (2 hour lab)

TPA2292

Production Lab 1-3 variable credits

Students will be provided with hands-on experience in theatre technology and production, including lighting; the construction of scenery; stage make-up; costume construction; actual production management; properties construction and organization; sound production; recording, editing, and operation; and house management during actual performances. Required of all first-year students. (2-6 hour lab)

TPA2601

Introduction to

3 credits

Stage Management Introduction to Stage Management is designed to familiarize the student with the role of the stage manager in the theatre Concepts covered includes: blocking, note taking, cue calling and company relation skills. Prerequisites: TPA 1200, 1220. (3 hour lecture)

TPA2940

Technical Theatre

Occupational

Practicum 1-6 variable credits

This course is designed to provide the student with the practical, first hand experience at a professional venue. The student will be supervised jointly by Miami Dade College faculty and the contracting institution. (2-12 hour lab)

TPP1100

Acting 1 3 credits

The fundamentals of stage performance, stressing voice, movement, and the more formal and technical aspects of the actor's art. May be repeated for credit. (3 hour lecture)

Acting 1

Continuation of TPP 1100. Prerequisite: TPP 1100. (3 hour lecture)

TPP1120

Improvisation Ensemble 3 credits

The student will develop the skills of improvisation for use in role development and for performance. (3 hour lecture)

TPP1123

Improvisation Ensemble 3 credits

The student will develop ensemble and individual improvisational technique for performance. May be repeated for credit. (I hour lecture; 4 hour lab)

TPP1150

Scene Study 1

3 credits

3 credits

This course teaches the aspiring young theatre professional how to analyze a play in terms of the author's personal statement, the historical and social context within which it was written, the particular style used by the author, and the many options open to director and actor for bringing the work to stage life.A substantial portion of class time will be devoted to oral reading and interpretation of text. (1-3 hour lecture)

TPP1160

Voice & Movement 1 3 credits

An intense two-semester course designed to train the acting student in specific techniques of voice production, vocal range and control; to add flexibility and suppleness to body movement, so that the actor becomes free to concentrate on the task of building a character. Each participant is evaluated at the beginning in relation to voice and movement levels of professional acceptability and expected to demonstrate measurable growth in a personalized program. (3 hour lecture)

TPP1161

Voice & Movement 1 3 credits

Continuation of TPP 1160. Prerequisite: TPP 1160. (3 hour lecture)

TPP1170

Beginning Characterization 3 credits

A course which builds upon the centered foundation of creating a role developed in TPP 1100 and TPP 1110. The student uses a subjective approach to creating a character which differs from him/her physically, culturally and psychologically. He/she attempts ever greater degrees of transformation. Prerequisite: TPP 1110. (3 hour lecture)

TPP1172

Advanced Characterization 3 credits

A course which builds upon the centered foundation of creating a role developed in TPP 1100 and TPP 1110 and TPP 1170. The student continues to refine a subjective approach to creating a character which differs from him/her physically, culturally, and psychologically. He/she attempts ever greater degrees of transformation with internal and external sensitivity. Prerequisite: TPP 1170. (3 hour lecture)

TPP1190

Studio Theatre-Cast 1 credit

Practical application of skills acquired in acting classes through public presentation of student-produced studio theatre as a member of the cast. May be repeated for credit. Prerequisite: Permission of department chairperson. (2 hour lab)

TPP1250

Musical Theatre 1 3 credits

The study and performance of musical comedy excerpts with special attention to stage movement, acting and characterization as related to musical production. May be repeated for credit. Prerequisite: Permission of department chairperson; corequisite: previous or current enrollment in Voice Techniques and Jazz Techniques classes. (1 hour lecture; 2-4 hour lab)

2 2 8



TPP1313

Studio Theatre-Design

& Directing 1 credit

The opportunity to design, cast and produce studio presentations for public performance. May be repeated for credit. Prerequisite: THE 1925 or permission of department chairperson. (2 hour lab)

TPP1560

Dance, Mime and Movement

for the Theatre 1 3 credits Primary techniques in American jazz, ballet, and interpretive dance, and in mime and movement for dramatic application. (2 hour lecture; 2 hour lab)

TPP1561

Dance Mime & Movement

for the Theatre 2 3 credits
Intermediate techniques in American jazz,

ballet, and interpretative dance, and in mime movement for dramatic application. (2 hour lecture; 2 hour lab)

TPP1606

Playwriting 1/2

3 credits

The process of exploring playwriting styles and techniques is continued. A one-act play of significant length and complexity will be the semester project. (3 hour lecture)

TPP1700

Voice for the Stage 3 credits

The study and application of voice production, breathing, articulation, accents and movement in the actor's delivery. Emphasis is on clarity, precision, properly phrased and meaningful communication from the performer to the audience. (3 hour lecture)

TPP2111

Acting 2 3 credits

In this course, actors who have learned to express themselves freely now learn to adjust this expression to the demand of the role. Students begin to apply their skills for observation, imagination, and concentration to the study of roles close to themselves. Vocal and physical flexibility and expressiveness are now put to work in the realization of expectations of the playwright; here the student develops a systematic approval to creating a three-dimensional character. (3 hour lecture)

TPP2112

Acting 2 3 credits

Emphasis on building a characterization. The art of improvisation, with reference to its function in the preparation of a role, is included. Prerequisite: TPP 1110. (3 hour lecture)

TPP2151

Advanced Scene Study 3 credits

In this course the theatre student learns to analyze plays with a heavy focus on particular characters and major scenes. Emphasis will be placed on works of prime importance in the history of the theatre, both past and present, so that the aspiring actor can begin to experience some of the problems involved in approaching a significant role. Each student

is required to research the performance history of the roles and scenes studied as well as to uncover the subtexts and the inner line of character development. Attention will be given to both Stanislavsky and improvisation techniques as methods by which the actor comes closer to the full reality of a part. May be repeated for credit. (3 hour lecture)

TPP2152

Scene Study 3 3 credits

This course is the culmination of a sequence. In it the advanced acting student learns how to analyze the longer one/act or shorter full-length play and to develop the through-line of one character as a preparation for an in-class performance. The student also learns how to work with the director and to relate acquired acting techniques to the stylistic requirements of a given script. (3 hour lecture)

TPP2162

Voice &

Movement 2 3 credits

An intense two-semester course in precision techniques of voice production and bodily flexibility integrating them with specific acting exercises with an emphasis on demonstrating the automatic, non-conscious application of acquired voice and movement skills. Prerequisite: TPP 1161. (3 hour lecture)

TPP2163

Voice &

Movement 2 3 credits Continuation of TPP 2162. Prerequisite: TPP

Continuation of TPP 2162. Prerequisite: TPP 2162. (3 hour lecture)

TPP2191

Mainstage

Production - Cast 1-3 variable credits Participation in a major theatrical production as a member of the cast. Mainstage productions will be presented publicly to the student body and community. May be repeated for credit. Prerequisite: Permission of department chairperson. (2-6 hour lab)

TPP2256

Musical Theatre 2 3 credits

A continuation of TPP 1250 in which the student is expected to develop further the performing skills of singing, dancing, and acting. (3 hour lecture)

TPP2260

Acting for

the Camera 1 3 credits

Acting students will attend lecture/lab to acquire the technical knowledge and training necessary for acting in the film and television industry. They will acquire a knowledge of the working procedure and terminology used in these media. Prerequisite: TPP 1100 or permission of the instructor. (2 hour lecture; 2 hour lab)

TPP2261

Acting for

the Camera 2 3 credits

Advanced acting students will continue to develop skills in performance technique for the lens. A lecture/lab course which is designed to give actors practical experiences necessary to make informed choices in use of self vocal levels and character business. Prerequisite: TPP 2260 or permission of instructor. (2 hour lecture; 2 hour lab)

TPP2310

Introduction to

Play Directing 3 credits Introduction to the basics of play directing, composition, picturization, business and movement. The course will offer the student a method of analysis and rehearsal schedul-

movement. The course will offer the student a method of analysis and rehearsal scheduling. Prerequisite: TPP 1110 and TPA 1200. (3 hour lecture)

TPP2314L

Mainstage Production-

Assistant

Designer/Director 1 credit

Practical experience in theatrical design and directing through participating in a major production. May be repeated for credit. Prerequisite: Permission of department chairperson. (2 hour lab)

Travel Industry Management

HFT1454

Food/Beverage Controls 3 credits

Covers the principles and procedures involved in an effective food and beverage control system, including standards determination, the operation budget, income and cost control, menu pricing, and computer applications. (3 hour lecture)

HFT1716

Travel Destinations 3 credits

A study of worldwide nationalities in terms of geography, economic descriptors and environmental condition. Major attractions of various countries at specific times, including cultural, industrial, historical and artistic displays, are emphasized. Seasonal attractions such as festivals, camping, sports, etc. are specified. A.S. degree credit only. (3 hour lecture)

HFT1721

Travel Agency

Operations 3 credits

Prepares students for employment opportunities requiring a knowledge of the operation of a travel agency. Students learn basic organization and management principles; staffing; legal aspects; building new sales accounts, and working with the effect of deregulation on the travel industry. (3 hour lecture)

HFT1724

Travel Selling 3 credits

A concentration on the behavioral relationship necessary for the successful closing of a sale. Covers personal appearance, verbal skills, attitudinal factors, telephone competence, group presentation capabilities, and customer service requirements. (3 hour lecture)

HFT1725 Airline &

Travel Marketing 3 credits

Combines a study of usable motivational theory as applied to the airline and travel industries with basic market analysis and identification techniques, including identifying primary travel routes and markets, an understanding of the needs and wants of potential customers, and the enterprise's ability to satisfy these perceived needs. Market segmentation, statistically valid market surveying, and the professional marketing management skills required to ensure airline and travel agency market penetration will be stressed. (3 hour lecture)

HFT1726

Travel Tools of the Trade 3 credits

A comprehensive study of the facilities, equipment, and resources required to operate a travel agency. Knowledge in the use of all related reference promotional materials and supporting sales documentation. Student will demonstrate skills in out-of-the-office "tools" to include audiovisual equipment and proper display techniques, proper use of the telephone, alternate communications facilities, and office equipment will be stressed. (3 hour lecture)

HFT1731 Certified Tour

Guide Field Study 3 credits

Supervised field experience in the professional tour guide industry. Emphasis will be placed on preparation for work assignment and field experiences. A.S. degree credit only. (3 hour lecture)

HFT1794

Psychology of

Leisure Travel 3 credits

Principles and procedures in understanding travel behavior and motivation. Emphasizes an awareness to travelers' perceptions, personalities, attitudes and other psychological factors. (3 hour lecture)

HFT1910

Researching a Destination 2 credits

Application of research skills to provide the ability of a professional tour guide to research an unfamiliar destination. Emphasis will be on research methods, history, culture and nature. Area specialization is advised. Direct individual study. (2 hour lecture)

HFT1949 Co-op Work

Experience 1: HFT 3 credits

This is a course designed to continue training in student's fields of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. A.S. degree credit only. (3 hour lecture)

HFT1950

Narrative Presentations 3 credits

Communication skills of a professional tour guide. Applications of principles of speech presentation, sightseeing narrative, and articulation. A.S. degree credit only. (3 hour lecture)

HFT2050

Introduction to Tourism 3 credits

An introduction to the broad fields of travel and tourism. The major topics covered will be tourism components and supply, tourism development, and the economic, social and environmental impacts of tourism. (3 hour lecture)

HFT2400

Travel Accounting

& Information Systems 3 credits
Basic bookkeeping procedures from double

Basic bookkeeping procedures from double entry to the balance sheet and income statement-travel agency commission and sales procedures necessary for compliance with Airline Reporting Conference (ARC) systems accounting will be stressed. (3 hour lecture)

HFT2702

Airline Tickets & Tariffs 4 credits

Topics include skills in airline ticketing, domestic and international fare construction. Upon completion, the student will demonstrate the skills necessary to schedule flight itineraries, select appropriate airfares and issue all required documents. Prerequisites: AVM 1523, 1524. Special fee. (3 hour lecture; 2 hour lab)

HFT2728

Computerized Airline

Reservation System 1 4 credits

A hands-on use of the computer terminal (CTR), keyboard, and software course. Use of the computer for purpose of establishing reservation data and entering reservation, for ticketing, and for the retrieval of travel data and information. Special fee. (3 hour lecture; 2 hour lab)

HFT2729

Computerized Airline

Reservation System 2 4 credits

A hands-on use of computer terminal (CRT), keyboard and software course. The student will demonstrate skills in the proficient use of the computer for purposes of creating hotel and rental car reservation, creating "stored fare" records and printing invoice or itinerary options. Topics include advanced ticketing and tariff skills applicable to airline reservation systems. All lecture material and laboratory work will involve Eastern Airlines Systems One reservation computer. Prerequisite: HFT 2728. (3 hour lecture; 2 hour lab)

HFT2949 Co-op Work

Experience 2: HFT

2: HFT 3 credits

This is a course designed to continue training in student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of INR 1949 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. A.S. degree only. (3 hour lecture)

Vision Care Technology/Opticianry

OPT1110

Physical &

Geometrical Optics 4 credits

Behavior of light energy as it passes through air, plastic, glass and water with emphasis on how light is modified by prism and curved lens surfaces. These principles relate to the effect these ophthalmic devices have in correcting the errors of human vision. Corequisites: OPT 1205, 1330. (4 hour lecture)

OPT1150

Ophthalmic Lenses 2 credits

Characteristic of unifocal and multifocal lens reference points for proper lens selection to meet visual needs of the patients. Emphasis is on accurate positioning of the optical centers and selected multifocal addition design. ANSI and FDA standards; prescription ordering; verification procedures; absorptive lenses; and invisible and progressive multi-focals are presented. Prerequisites: OPT 1110, 1205; corequisites: OPT 1331, 1331L. (2 hour lecture)

OPT1205

Ocular Anatomy,

Physiology & Pathophysiology 3 credits The structure and function of the systems of the human body, emphasizing the anatomy, physiology and pathophysiology of the human eye. Visual recognition of common eye disorders is also discussed. Corequisite: OPT 1330. (3 hour lecture)

OPT1330

Clinical Data Collection 1 2 credits

Techniques necessary in a clinical environment for the collection of patient case history, entrance visual acuity, basic visual skills of ocular mobility and accommodation, color discrimination, depth perception and binocular fusion. Emphasis is also placed on gaining familiarity with the medical terminology as it relates to the visual system. Corequisites: OPT 1110, 1205. (2 hour lecture)

OPT1331

Clinical Data Collection 2 2 credits

Techniques necessary in a clinical environment for the collection of subjective and objective patient diagnostic information including visual field plotting, tonometry, lensometry, keratometry, and sphygmomanometry. Prerequisites: OPT 1150, 1331L. (2 hour lecture)



OPT1331L

Clinical Data

Collection 2 Laboratory 1 credit Laboratory for OPT1331 in which students are under the supervision of a licensed practitioner. Corequisite: OPT 1331. Laboratory fee. (2 hour lab)

1 credit

OPT1450

Ophthalmic Dispensing Procedures 1

Basic procedures of ophthalmic dispensing such as frame selection, measurement and laboratory ordering. Emphasis will be placed on common ophthalmic frame materials; crown glass and CR-39 lenses; absorptive lenses; and frame alignment, adjustment and repair. The student will demonstrate skills necessary for entry level ophthalmic dispensing in Vision Care Clinic. Prerequisite: OPT 1330; corequisites: OPT 1331, 1331L, 1450L.

(1 hour lecture) OPT1450L

Ophthalmic Dispensing

Procedures 1 Laboratory 1 credit Laboratory for OPT 1450. Corequisite: OPT 1450. Laboratory fee. (2 hour lab)

OPT2060

Ophthalmic Management

Policy & Procedures 2 credits

Procedures and terminology used in the handling of patients, correspondence, legal and ethical principles, inter- and intra-professional relationships, and office management. Develop feasibility report of opening a retail ophthalmic dispensary. The history of opticianry, optometry and ophthalmology is traced. Special emphasis is on a comprehensive review of the curriculum. Prerequisite: OPT 1330, 2800L. (2 hour lecture)

OPT2070L

Computers for

Vision Care 1 credit

This course introduces students to the use of computers in ophthalmic practice. Students will learn computer basics and the use of application software for maintaining patient records and billing. Elements of ophthalmic coding are included. (2 hour lab)

OPT2375

Refractometry 1 credit

Students will learn the basic principles of refractometry, theoretical aspects of retinoscopy, and the use of cross cylinders. Students will be able to describe various refractive problems and their solutions. Prerequisites: OPT 1150, 1205, 1331, 1331L; corequisite: OPT 2375L. (1 hour lecture)

OPT2375L

Refractometry Laboratory 1 1 credit Students will practice theoretical concepts of refractometry using a retinoscope, auto-refractor, and cross cylinders in a laboratory setting. Prerequisites: OPT 1205, 1331, 1331L; corequisites: OPT 2375. (2 hour lab)

OPT2376L

Refractometry Lab 2 1 cred

This course is designed to provide the student with the hands on experience of hand neutralizing a pair of glasses, retinoscopy, and the use of the phoropter and the Snellen chart. (2 hour lab)

OPT2377L

Refractometry 3

Laboratory 1 credit

This laboratory course will continue to advance the skills already introduced in the previous laboratories 1 & 2. The improved skills will enhance the students ability to determine the refractive status of the eye and be able to practice these skills on patients in the clinic. (2 hour lab)

OPT2420

Eyewear Fabrication 1 2 credits

Theory of ophthalmic surfacing procedures. Students acquire knowledge to arrange single vision lenses; use lensometers and lens clock; operate project-o-makers for single vision lens layout; select or fabricate frame patterns; and utilize several systems for edging lenses for ophthalmic frames. Prerequisite: OPT 1150; corequisites: OPT 1450, 1450L, 2420L, 2505. (2 hour lecture)

OPT2420L

Eyewear Fabrication 1

Laboratory 1 credit Laboratory for OPT 2420. Corequisite: OPT 2420. Laboratory fee. (2 hour lab)

OPT2421C

Eyewear Fabrication 2 3 credits

Advanced techniques in measurement, fabrication, and verification of unifocal and multifocal lenses. Students fabricate finished eyewear from written specifications ensuring that current ANSI and FDA standards are exceeded. Prerequisites: OPT 2420, 2420L. (1 hour lecture; 4 hour lab)

OPT2422C

Evewear Fabrication 3 3 credits

A continuation of OPT 2421. Theory of evaluation and analysis of eyewear for accuracy and quality. Advanced techniques in operation of automated lens analyzer and lens edgers, and maintenance of equipment. Prerequisites: OPT 2420, 2421C. (1 hour lecture; 4 hour lab)

OPT2451

Ophthalmic Dispensing Procedures 2 1 credit

Theory and terminology of advanced ophthal-mic dispensing. Emphasis will be placed on new technology in ophthalmic frame materials; multifocal lenses including progressive power and blended bifocals; and high index lenses. The process of analyzing the patient's specific needs for the proper frame and lens selection is highlighted. Prerequisites: OPT 1450, 1450L; corequisite: OPT 2451L. (1 hour lecture)

OPT2451L

Ophthalmic Dispensing

Procedures Laboratory 1 credit Laboratory for OPT 2451. Corequisite: OPT 2451. Laboratory fee. (2 hour lab)

OPT2505

Contact Lenses 1 3 credits

Basic principles of contact lens fitting, emphasizing soft lenses. Topics include lens-relate terminology, anatomy and physiology, patient examination, soft lens materials, design, parameters, handling, fitting and care. Includes introduction to rigid lenses. OPT 1110, 1205. (3 hour lecture)

OPT2506

Contact Lenses 2 2 credits

Principles of contact lens fitting, emphasizing rigid lenses. Topics include materials, design parameters, verification, handling, fitting and care. Considers advanced and specialty design and ocular complications. Prerequisite: OPT 2505. (2 hour lecture)

OPT2506L

Contact Lenses 2 Lab 1 credit

Practical procedures designed to apply technical skills of contact lens application and removal, verification of the contact lens prescription, modification of hard and hard gas permeable contact lenses, and other skills discussed in previous lecture coursework. Prerequisite: OPT 2505; corequisite: OPT 2506. (2 hour lab)

OPT2800L

Vision Care

Clinic 1 2 credits

Introductory clinic designed to apply technical skills acquired in previous course work. Recording of clinical data, administrative procedures and techniques in patient handling under close staff supervision. Prerequisites: OPT 1331, 1331L, 1450, 1450L. Laboratory fee. (6 hour lab)

OPT2801L

Vision Care

Clinic 2 4 credits

Development of skills in patient reception, clinical data collection, assisting clinician, and ophthalmic dispensing. This is an opportunity to follow the patient through the entire cycle of vision care under close supervision of the clinical staff. Prerequisite: OPT 2800L Laboratory fee. (12 hour clinic)

OPT2802L

Vision Care

Clinic 3 4 credits

Development of additional skills in visual fields, tonography, ocular photodocumentation, vision therapy/orthoptics, low vision, aseptic techniques, eye emergencies, and assisting in triage and laboratory diagnosis of external eye disease. On and off-campus clinics will be utilized under the close supervision of optometrists and ophthalmologists. Prerequisite: OPT 2801L; corequisite: OPT 2060 Laboratory fee. (12 hour clinic)

3 credits

MDC 2008-10 CATALOG

2 credits

OPT2830C

Clinic 1

Contact Lenses

Observe and assist an optometrist in the initial fitting and follow-up care of rigid and soft contact lenses for patients referred from the Vision Care Clinic when conventional eyewear will not suffice. Familiarization with the instructions for lens handling, cleaning, care and storage of contact lenses. Prerequisites: OPT 2506, 2506L. Laboratory fee. (4 hour clinic)

OPT2831L Contact Lens

Clinic 2 1 credit

Use of the soft contact lens instruments to confirm all the parameters for replacement lens. Particular attention is devoted to the patient that is having problems with contact lenses after long-term wear due to corneal changes and sensitivity to solutions under direct supervision of an optometrist. Prerequisite: OPT 2830C. Laboratory fee. (3 hour clinic)

OPT2875L Ophthalmic Dispensing

Practicum 1 2 credits

Externship in an approved finishing laboratory of a retail ophthalmic dispensing establishment. The student will gain a working

knowledge of ophthalmic frame and lens stock, inventory system, layout and blocking, chemical and heat treating, edging, tinting assembly and alignment of eyewear according to the written prescription. Prerequisites: OPT 2420, 2420L, 2451L; corequisite: OPT 2801L (6 hour lab)

OPT2876L

Ophthalmic Dispensing Practicum 2

Externship in an approved retail ophthalmic dispensing establishment in the area of frame styling, ordering of appropriately designed lenses, adjustment, repair and dispensing of eyewear. The student will gain a working knowledge of administrative management procedures of the practice. Prerequisite: OPT

Selected Studies

2875L. (6 hour lab)

###1920

WORKSHOP 3 credits

Designed to provide in-depth study in various occupational areas. It may be varied according to faculty and student planning. This offering is numbered 1920 or 2920, with prefix of the subject area, in the department or discipline of study. May be repeated for credit.

###2920

WORKSHOP

Designed to provide in-depth study in various occupational areas. It may be varied according to faculty and student planning. This offering is numbered 1920 or 2920, with prefix of the subject area, in the department or discipline of study. May be repeated for credit.

###2990

2 credits

SELECTED STUDIES 3 credits

Designed to offer an in-depth treatment of special areas under the various occupational categories; it may be varied each term according to faculty and student planning. This offering is numbered 2990, with prefix of the subject area, in the department or discipline of study. Credits apply only to an Associate in Science degree. Prerequisite: Permission of the instructor and department chairperson.

###2995

OCCUPATIONAL PRACTICUM 3 credits

Serves the teachers in various occupational disciplines. To study practical problems of an assigned discipline or critical study or curriculum development, laboratory planning, literature, research, and practice. May be repeated for credit.





Vocational Credit Courses

Miami Dade College vocational certificate programs are geared for immediate job entry. The vocational credit courses are listed in alphabetical order according to prefix and number (or suffix).

Accounting

ACO0011

Bookkeeping 1 1 credit

This course is an introduction to the tasks performed by bookkeepers. It progresses from simple record keeping to a more advanced double-entry bookkeeping system. Hands-on experience with keeping transactions involving payroll, sales and cash receipt, purchases and cash payment, and reconciling bank statements and budgeting. Special fee. (30 contact hours)

ACO0101

Accounting 1 2.5 credits

This course emphasizes double-entry book-keeping; methods and principles of recording business transactions; the preparation of various documents used in recording income, expenses, acquisition of assets incurrence of liabilities, and changes in equity; and the preparation and basic interpretation of financial statements. Special fee. (75 contact hours)

ACO0102

Accounting 2 2.5 credits

This course is designed to continue the study of accounting principles. Topics include depreciation, inventory, accruals, deferrals, notes, payroll, and tax-related forms. Computer application will be provided. Special fee. (75 contact hours)

ACO0111

Accounting (Lab)

Applications 1 credit

This course is intended to provide additional time on task for students who are attempting to fulfill the requirements of the Accounting Operations Certificate program. The course is individualized according to each student's need. Special fee. (30 contact hours)

ACO0202

Accounting (Lab)

Applications 2 1 credit

This course is intended to provide additional time on task for students who are attempting to fulfill the requirements of the Accounting Operations Certificate program. The course is individualized according to each student's need. Special fee. (30 contact hours)

ACO0511

Microcomputers in

Bookkeeping and Business 2.5 credits

This course is concerned with the use of microcomputers for accounting applications.

It includes the preparation, interpretation, and use of microcomputers. It includes the preparation, interpretation, interpretation, and use of microcomputer information in financial decision making. Other business applications will be explored. Special fee. (75 contact hours)

ACO0751

Income Tax

Accounting 2.5 credits

This course provides the student with an overview of the federal income tax system and presents the accounting procedures and rules that need to be understood to minimize the tax amount due to the government, within the tax laws. Special fee. (75 contact hours)

ACO0752

Business Forms 2.5 credits

An introduction to federal, state and local forms that must be filed by most businesses, including payroll returns and sales taxes. Special fee. (75 contact hours)

ACO0948

Co-op Work

Experience: ACO 1-3 variable credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of ACO 0948 Co-Op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Special fee. (30-90 contact hours)

Apprenticeship - Electricity

BCA0350

Electricity 1 3 credits

This course provides students with a foundation in electrical theory, electrical safety, OSHA standards, and mathematical principles and formulas for the electrical industry. (90 contact hours)

BCA0351

Electricity 2 3 credits

This course presents the National Electrical Code (NEC) and its application to electrical wiring. Students are also introduced to various types of test equipment, fittings, conductors, blueprints, and residential and commercial wiring. (90 contact hours)

BCA0352

Electricity 3 3 credits

Circuits, current, and motor theory and application are presented. The student also learns about grounding, conduit systems, and conductor installations. (90 contact hours)

BCA0353

Electricity 4 3 credits

This course presents techniques for cable tray assembly and installation, crimping and splicing cable, and installation of various types of electrical services. Students also learn about circuit breakers and fuses, contactors and relays, as well as lighting and lighting fixtures. (90 contact hours)

BCA0354

Electricity 5 3 credits

This course focuses on calculating loads and conductors. It also presents information on requirements for overcurrent protection, outlet and junction boxes, and wiring devices. (90 contact hours)

BCA0355

Electricity 6 3 credits

Students are provided with information on transformer operations and principles of light. Motor calculations, maintenance, and controls are also presented. (90 contact hours)

BCA0356

Electricity 7 3 credits

This course provides skills in calculating loads and circuits for various types of electrical systems. It offers the first part in a two-part series on motor maintenance. It also presents information on basic electronic theory, standby and emergency systems, fire alarm systems, and specialty transformers. (90 contact hours)

BCA0357

Electricity 8

3 credits

This is the second part of a two-part series on motor maintenance. It also presents the topics of advanced controls, and heating, ventilation, and air conditioning controls. (90 contact hours)

BCA0358

Electricity Co-op 1 18.13 credits

This is a Year One, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0359

Electricity Co-op 2 18.13 credits

This is a Year One, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain handson skills. (544 contact hours)

0**0** 2008-10 CATALOG

BCA0360 **Electricity Co-op**

30.4 credits Summer 1

This is a Year One, Summer One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

BCA0361

Electricity Co-op 3 18.13 credits

This is a Year Two, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0362

Electricity Co-op 4 18.13 credits

This is a Year Two, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0363 **Electricity Co-op**

Summer 2 30.4 credits

This is a Year Two, Summer Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

BCA0364

Electricity Co-op 5 18.13 credits

This is a Year Three, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0365

Electricity Co-op 6 18.13 credits

This is a Year Three, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0366 **Electricity Co-op** Summer 3

30.4 credits

This is a Year Three, Summer Three, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

BCA0367

Electricity Co-op 7 18.13 credits

This is a Year Four, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0368

Electricity Co-op 8 18.13 credits

This is a Year Four, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0369 **Electricity Co-op**

Summer 4 30.4 credits

This is a Year Four, Summer Four, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

Apprenticeship - Plumbinq

BCV0859 **Plumbing Summer**

16.7 credits

Co-op 1 This is a Year One, Summer One coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Plumbing Apprenticeship Program. Field activities. This summer cooperative experience is the continuation and completion of Plumbing Co-op 1 and 2. (500 contact hours)

BCV0860

Plumbing Summer

Co-op 2 16.7 credits

This is a Year Two, Summer Two coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Plumbing Apprenticeship Program. Field activities. This summer cooperative experience is the continuation and completion of Plumbing Co-op 3 and 4. (500 contact hours)

BCV0861

Plumbing Summer

Co-op 3 16.7 credits

This is a Year Three, Summer Three coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Plumbing Apprenticeship Program. Field activities. This summer cooperative experience is the continuation and completion of Plumbing Co-op 5 and 6. (500 contact hours)

BCV0862

Plumbing Summer

Co-op 4 16.7 credits

This is a Year Four, Summer Four coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Plumbing Apprenticeship Program. Field activities. This summer cooperative experience is the continuation and completion of Plumbing Co-op 5 and 6. (500 contact hours)

BCV0940

Plumbing Co-op 1 25 credits

This is a Year One, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom studies and field experience for the Plumbing Apprenticeship Program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (750 contact hours)

BCV0941

Plumbing Co-op 2 25 credits

This is a Year One, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom studies and field experience for the Plumbing Apprenticeship Program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (750 contact hours)



BCV0942

Plumbing Co-op 3 25 credits

This is a Year Two, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom studies and field experience for the Plumbing Apprenticeship Program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (750 contact hours)

BCV0943

Plumbing Co-op 4 25 credits

This is a Year Two, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom studies and field experience for the Plumbing Apprenticeship Program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (750 contact hours)

BCV0944

Plumbing Co-op 5 25 credits

This is a Year Three, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom studies and field experience for the Plumbing Apprenticeship Program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills (750 contact hours)

BCV0945

Plumbing Co-op 6 25 credits

This is a Year Three, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom studies and field experience for the Plumbing Apprenticeship Program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills (750 contact hours)

BCV0946

Plumbing Co-op 7 25 credits

This is a Year Four, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom studies and field experience for the Plumbing Apprenticeship Program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills (750 contact hours)

Apprenticeship - Fire Sprinkler

BCA0470

Fire Sprinkler 1 2.67 credits

This course provides an introduction to the fire sprinkler fitter trade and introduces workplace safety, materials, common tools, and other topics necessary for the first semester apprentice. (80 contact hours)

BCA0471

Fire Sprinkler 2 2.67 credits

This course continues the topics introduced in Fire Sprinkler 1, and identifies and describes various types of tubing and pipe systems. (80 contact hours)

BCA0472

Fire Sprinkler 3

2.67 credits

This course provides information on various types of sprinkler systems for the second year apprentice. (80 contact hours)

BCA0473

Fire Sprinkler 4 2.67 credits

This course identifies and describes the purpose and operation of wet fire sprinkler systems and dry pipe fire sprinkler systems. (80 contact hours)

BCA0474

Fire Sprinkler 5 2.67 credits

This course provides an understanding of the planning and design of the fire sprinkler systems and the mathematics used to perform sprinkler system design and installation for the third year apprentice. (80 contact hours)

BCA0475

Fire Sprinkler 6 2.67 credits

This course continues the planning and design of the fire sprinkler systems, with emphasis on supply systems. (80 contact hours)

BCA0476

Fire Sprinkler 7 2.67 credits

Information on special extinguishing systems and fire pumps is presented in this course for fourth year apprentices. (80 contact hours)

BCA0477

Fire Sprinkler 8 2.67 credits

This course continues special extinguishing systems with basic hydraulic concepts, system design, and hydraulic calculations. An introduction to foremanship, documentation and tracking is included. (80 contact hours)

BCA0480

Fire Sprinkler Co-op 1 18.13 credits

This is a Year One, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Fire Sprinkler Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0481

Fire Sprinkler Co-op 2 18.13 credits

This is a Year One, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the

Fire Sprinkler Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0482

Fire Sprinkler

Co-op Summer 1 30.4 credits

This is a Year One, Summer One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

BCA0483

Fire Sprinkler Co-op 3 18.13 credits

This is a Year Two, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Fire Sprinkler Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0484

Fire Sprinkler Co-op 4 18.13 credits

This is a Year Two, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Fire Sprinkler Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0485

Fire Sprinkler Co-op Summer 2

This is a Year Two, Summer Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electricity Apprenticeship program. Field activities are coordinated with classroom

30.4 credits

activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

BCA0486

Fire Sprinkler Co-op 5 18.13 credits

This is a Year Three, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Fire Sprinkler Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0487 Fire Sprinkler Co-op 6

18.13 credits

This is a Year Three, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Fire Sprinkler Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0489 Fire Sprinkler Co-op 7

18.13 credits

This is a Year Four, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Fire Sprinkler Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0490 Fire Sprinkler

Co-op 8 18.13 credits

This is a Year Four, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Fire Sprinkler Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

BCA0492 Fire Sprinkler Co-op Summer 3

30.4 credits

This is a Year Three, Summer Three, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Fire Sprinkler Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

BCA0493 Fire Sprinkler Co-op Summer 4

30.4 credits

This is a Year Four, Summer Four, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Fire Sprinkler Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

Apprenticeship - HVAC

ACR0911

HVAC Co-op Summer 1 30.4 credits

This is a Year One, Summer One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Heating, Ventilation, and Air Conditioning Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

ACR0912

HVAC Co-op Summer 2 30.4 credits

This is a Year Two, Summer Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Heating, Ventilation, and Air Conditioning Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

ACR0913 HVAC Co-op

Summer 3 30.4 credits

This is a Year Three, Summer Three, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Heating, Ventilation, and Air Conditioning Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

ACR0914 HVAC Co-op

Summer 4 30.4 credits

This is a Year Four, Summer Four, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Heating, Ventilation, and Air Conditioning Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

ACR0930

HVAC Co-op 1 18.13 credits

This is a Year One, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Heating, Ventilation, and Air Conditioning Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their

knowledge and gain hands-on skills. (544 contact hours)

ACR0931

HVAC Co-op 2

18.13 credits

This is a Year One, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Heating, Ventilation, and Air Conditioning Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

ACR0932

HVAC Co-op 3

18.13 credits

This is a Year Two, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Heating, Ventilation, and Air Conditioning Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

ACR0933

HVAC Co-op 4

18.13 credits

This is a Year Two, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Heating, Ventilation, and Air Conditioning Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

ACR0934

HVAC Co-op 5

18.13 credits

This is a Year Three, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Heating, Ventilation, and Air Conditioning Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

ACR0935

HVAC Co-op 6 18.13 credits

This is a Year Three, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Heating, Ventilation, and Air Conditioning Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)



ACR0936

HVAC Co-op 7 18.13 credits

This is a Year Four, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Heating, Ventilation, and Air Conditioning Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

ACR0937

HVAC Co-op 8 18.13 credits

This is a Year Four, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Heating, Ventilation, and Air Conditioning Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

ACR0940

HVAC 1 2.67 credits

This course provides an introduction to the Heating, Ventilation, and Air Conditioning Trade and presents information on mathematics and tools of the trade for first year apprentices. (80 contact hours)

ACR0941

HVAC 2 2.67 credits

This course continues the topics presented in HVAC 1, and introduces students to heating and cooling systems. (80 contact hours)

ACR0942

HVAC 3 2.67 credits

This course provides instruction for second year apprentices in gas laws and the properties of air, as well as the use and installation of various types of duct systems. The principles of combustion, mechanical maintenance, and basic electronics are also presented. (80 contact hours)

ACR0943

HVAC 4 2.67 credits

The focus of this course is in understanding the function and operation of control systems, metering devices, compressors, and heat pumps. Students will be able to complete the installation and servicing of this equipment. (80 contact hours)

ACR0944

HVAC 5 2.67 credits

This course provides skills in maintenance and troubleshooting of various types of HVAC systems and equipment for the third year apprentice. (80 contact hours)

ACR0945

HVAC 6 2.67 credits

This course is a continuation of HVAC 5, with the addition of information on air distribution and steam systems, as well as establishing and maintaining good customer relations. (80 contact hours)

ACR0946

HVAC 7 2.67 credits

This course provides advanced blueprint reading, and presents the fourth year apprentice with information on energy conservation and management equipment and systems. (80 contact hours)

ACR0947

HVAC 8 2.67 credits

Students learn about water quality and treatment, and how to design heating and cooling systems. This course also covers commercial and industrial refrigeration. (80 contact hours)

Apprenticeship - Sheet Metal

PMT039

Sheet Metal 1 2.7 credits

This course provides first year apprentices with an introduction to the sheet metal trade, as well as mathematics of the trade, tools of the trade, and steel and other metals, including fasteners, hangers, and supports. (81 contact hours)

PMT0392

Sheet Metal 2 2.7 credits

This course provides instruction in principles of layout, sheet metal processes, and parallel line development. (81 contact hours)

PMT0393

Sheet Metal 3 2.7 credits

This course provides second year apprentices with a continuation of mathematics for the trade, and an introduction to piping practices, radial line development, bend allowances, and soldering. Students will also learn to interpret and use blueprints and specifications. (81 contact hours)

PMT0394

Sheet Metal 4 2.7 credits

Students will learn about standards and codes for the industry, including sheet metal duct fabrication standards. Information on insulation, gutters and downspouts, and roof flashing is also presented. (81 contact hours)

PMT0395

Sheet Metal 5 2.7 credits

Third year apprentices will learn about principles of airflow and of refrigeration, as well as about the equipment used in heating, ventilation, and air conditioning. (81 contact hours)

PMT0396

Sheet Metal 6 2.7 credits

This course provides knowledge of the fabrication and layout of fiberglass duct, the principles of triangulation, and skills associated with field measurement. Students will also acquire knowledge and skills in welding, brazing, and cutting, including safety requirements and practices. (81 contact hours)

PMT0397

Sheet Metal 7 2.7 credits

Fourth year apprentices learn about shop production and organization, including efficient operations and utilization of manpower. They also learn about the principles of air balance and air distribution systems. (81 contact hours)

PMT0398

Sheet Metal 8 2.7 credits

This course provides students with knowledge of louvers, dampers, access doors, hoods, and ventilators. Students will also learn about fume and exhaust systems design. (81 contact hours)

PMT0942

Sheet Metal

Co-op 1 18.13 credits

This is a Year One, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Sheet Metal Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

PMT0943 Sheet Metal

Co-op 2 18.13 credits

This is a Year One, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Sheet Metal Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

PMT0944

Sheet Metal

Co-op Summer 1 30.4 credits

This is a Year One, Summer One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Sheet Metal Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

PMT0945 Sheet Metal

Co-op 3 18.13 credits

This is a Year Two, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Sheet Metal Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

PMT0946 Sheet Metal

Co-op 4 18.13 credits

This is a Year Two, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Sheet Metal Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

PMT0947 Sheet Metal

Co-op Summer 2

This is a Year One, Summer Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Sheet Metal Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills.

30.4 credits

PMT0948

(912 contact hours)

Sheet Metal Co-op 5 18.13 credits

This is a Year Three, Semester One, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Sheet Metal Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

PMT0949

Sheet Metal Co-op 6 18.13 credits

This is a Year Three, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Sheet Metal Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

PMT0950

Sheet Metal

Co-op Summer 3 30.4 credits

This is a Year Three, Summer Three, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Sheet Metal Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

PMT0951

Sheet Metal Co-op 7 18.13 credits

This is a Year Four, Semester One, coordinated work-study program that reinforces the educational and professional growth of students

through parallel involvement in classroom instruction and field experience for the Sheet Metal Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

PMT0952

Sheet Metal Co-op 8 18.13 credits

This is a Year Four, Semester Two, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Sheet Metal Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (544 contact hours)

PMT0953

Sheet Metal

Co-op Summer 4 30.4 credits

This is a Year Four, Summer Four, coordinated work-study program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Sheet Metal Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills. (912 contact hours)

Architectural Drafting Technology

ARV0104

Working Drawings 5 credits

This course will prepare the student to develop multi-view drawing, prepare sectional views, develop drawings containing auxiliary views and sections, as well as applying basic dimensions. Special fee. (150 contact hours)

ARV0303

Building Construction

Estimating 1 3 credits

This course enables the student to do estimates of materials quantities and labor cost in the construction of a small residential type building. Special fee. (90 contact hours)

ARV0304

Building Construction

Estimating 2 3 credit

This course focuses on the estimating of more advanced elements of building and construction analysis of cost of complicated commercial and multistory building systems. Special fee. (90 contact hours)

ARV0307

Cooperative Education

Architectural Drafting 2 3 credits This course is an advanced internship in the

This course is an advanced internship in the field of architectural drafting. A signed agreement must specify the learning objectives that the student will accomplish, and must be signed by the student, faculty coordinator, and employment site supervisor. Special fee. (90 contact hours)

ARV0309

History of Architecture 2.5 credits

This course provides a general survey of architecture beginning with primitive times and reviewing outstanding features of historical architectural design through the 18th century. Special fee. (75 contact hours)

BCV0053

Materials and Methods

of Building Construction 4 credits

This course introduces the basic materials and methods of building construction that the architectural drafter will be working with in drafting of buildings. This course will provide the information required for other persons entering the building construction industry in various job positions. Special fee. (120 contact hours)

BCV0055

Building Codes 3 credits

This course introduces the student to the organization and interpretation of building codes and the restrictions and limitations these codes place on the construction industry. The South Florida building code provisions will be stressed. Special fee. (90 contact hours)

BCV0057

Building Construction Law 3 credits

This course focuses on the legal aspects of construction contracts and responsibilities of all parties involved in the building field including design professionals, general and subcontractors, material suppliers and owners. Special fee. (90 contact hours)

BCV0090C

Blueprint Reading 1 3 credits

This course introduces reading and interpretation of working drawings of the building construction industry. Its emphasis is on architectural and construction drawings including plans, elevations, details and schedules with an overview of electrical and mechanical plans. Special fee. (90 contact hours)

TDR0091C

Blueprint Reading 2 3 credits

This course focuses on reading and interpretation of more complex working drawings of multistory/commercial type buildings. Special fee. (90 contact hours)

Banking

BAN0930

Banking for Tellers 1.5 credits

This course provides the necessary background information and hands-on training for an individual who wishes to obtain employment in today's banking industry. It includes orientation to different types of financial institutions and the regulations that affect them. Special fee. (45 contact hours)



BRC0109

Teller Training 3.5 credits

This course emphasizes the hands-on skills that a bank teller needs to master to perform effectively. Topics include cash handling and balancing at the end of the work shift, processing transactions and deposits, and compliance with banking laws and regulations. Customer service techniques and attitudes are also included. Special fee. (105 contact hours)

Business

BUV0210

Economic Principles of Import/Export

1 credit

This course will help the student understand the economic forces which affect import and export activity. The course will demonstrate the effect of the economic decisions of both U.S. and foreign governments on international commerce. Emphasis will be placed on real-world solutions. Special fee. (30 contact hours)

BUV0215

Import/Export Financing 2 credits

This course will show the student how public and private financing programs operate. A variety of financing vehicles, including letters of credit, will be discussed in a hands-on environment. Special fee. (60 contact hours)

BUV0302

Customer Service/Business 2.5 credits

This course follows a curriculum originally developed in cooperation with American Express. Topics include understanding of the customer, effective techniques in dealing with difficult customers, and supervision of customer service. Special fee. (75 contact hours)

BUV0949

Cooperative Education

Work Experience 3-6 variable credits

This course provides an opportunity for the student to put into practice the theory that is learned in the classroom/lab. A contract signed by the student, faculty coordinator, and work supervisors is required, which sets forth the learning objectives. Special fee. (90-180 contact hours)

SBM0002

Small Business

Management; Introduction 2.5 credits

This course focuses on the problems that must be faced and overcome for the small business entrepreneur to be successful. Among topics covered are financial banking, employee relations, marketing plan, and legal considerations. Special fee. (75 contact hours)

SBM0003

Principles of Small Business 1 credit

This course covers the principles of business ownership; the benefits, responsibilities and

risks. The student will learn the skills and personal characteristics necessary to succeed in small business ownership. Special fee. (30 contact hours)

SBM0104

Time Management 1 credit

This course practices goal setting, priority decision-making, and choosing action steps. It identifies major time management problems, and considers solution of these problems as recommended by time management experts. Special fee. (30 contact hours)

SBM0125

Personal Financial

Businessperson 2.5 credits

This course covers the basic topics of personal finance from the point of view of the business person who wishes to maximize economic well being by effective budgeting, borrowing, banking, investing, insurance coverage, and retirement planning. Special fee. (75 contact hours)

SBM0147

Small Business Marketing 1 credit

This course teaches the student the principles and elements of advertising, methods of merchandising and inventory control necessary for the successful operation of a small business. Practice with math concepts used in business is also emphasized. Special fee. (30 contact hours)

Business Law

BUIL024

Business Law 1 2.5 credits

The objectives of business law recognize the fact that classes are comprised of business and accounting students with varying abilities, previous experience and different backgrounds, and that they are seeking the basic legal concepts and skills necessary for personal, social and business effectiveness. Special fee. (75 contact hours)

Child Care

HEV0101

Child Care Teacher Aide 0.33 credits

This course presents an overview of early childhood career options and responsibilities. Students will acquire competence in such areas as observing and recording, ethical behavior, relationships with families, community resources and positive communication techniques. Special fee. (11.10 contact hours)

HEV0102

Child Care

Teacher Aide Application 3 credits

This course provides direct field experience to enable the practical application of concepts and techniques relating to such areas as observing and recording, ethical behavior, relationships with families, community resources and positive communication techniques. (99 contact hours)

HEV0116

Preschool Teacher 2 0.81 credits

This course provides a fundamental understanding of child growth and development principles, environment, developmentally appropriate curriculum and behavior and guidance specific to preschool children. Special fee. (25 contact hours)

HEV0150

Child Care Worker 1.5 credits

This course covers 10 and 20 hour competencies for the Department of Children and Families and general competencies for initial employment. Students will acquire competence in the state rules and regulations; health, safety, and nutrition; child abuse and neglect; child development, including, methods of guidance and communication; antibias curriculum, assessment, school/family relationships and age appropriate activities. Special fee. (40 contact hours)

HEV0152

Child Care

Development Specialist

Application 4.33 credits

This course provides direct field experience to enable the practical application of concepts and techniques relating to the professional development and leadership skills necessary for effective communication with staff and parents in a diverse society. (130 contact hours)

HEV0163

Child Care

Development Specialist

This course focuses on the professional development and leadership skills necessary for effective communication with staff and parents in a diverse society. Special fee. (20 contact hours)

HEV0173

Preschool Teacher

Application 1 2.13 credits

This course provides field experience to enable the practical application of concepts and techniques relating to teaching and guiding infants and toddlers appropriately. Special fee. (60 contact hours)

HEV0174

Preschool Teacher 1 0.51 credits

This course provides a fundamental understanding of child growth and development principles, developmentally appropriate curriculum and behavior and guidance specific to infants and toddlers. Special fee. (15 contact hours)

HEV0182

Preschool Teacher

Application 3 1.32 credits

This course provides direct field experience to enable the practical application of concepts and techniques relating to teaching and guiding school age children appropriately. (40 contact hours)

5.08 credits

HEV0183

Preschool Teacher

Application 2 This course provides direct field experience to enable the practical application of concepts and techniques relating to teaching and guiding preschool children appropriately.

(150 contact hours)

HEV0195

Preschool Teacher 3 0.31 credits

This course provides a fundamental understanding of child growth and development principles, environment, developmentally appropriate curriculum and behavior and guidance specific to school age children. (10 contact hours)

Communication Science

Communication Skills 1 credit

This course develops communications skills including listening, speaking (both formal and informal) and writing. The student learns the importance of developing good communication skills and practice methods are used to achieve improvements. Special fee. (30 contact hours)

Computer Science & Related Technologies

CGS0045

Advanced Programming

in BASIC

This is the second programming course using QuickBASIC with complex concepts, applications, files, design and algorithms. Course emphasizes problem solving using applications for commercial and business problems encountered by professional programmers. Special fee. (75 contact hours)

CGS0286

Wireless Networking I 2.5 credits

This course provides the student with a complete foundation of knowledge for entering into or advancing in the wireless networking industry. Topics include: an introduction to wireless LANs; RF antennas and accessories; wireless LAN standards; and wireless LAN organizations to link budget math, troubleshooting, performing a site survey. This course delivers hands-on training that benefits the novice as well as the experienced network professional. Prerequisites: CGV 0010 & CGS 0890. Laboratory fee. (3hr.lecture; 2hr lab)

Wireless Networking II 2.5 credits

This course provides the student with a complete foundation of knowledge for entering into or advancing in the wireless networking industry. Topics include: 802.11 architecture, MAC and physical layer discussions, troubleshooting wireless LAN installations, wireless LAN security and site survey fundamentals. This course is a second level course that delivers hands-on training that benefits the novice as well as the experienced network professional. Prerequisites: CGS 0286. Laboratory fee. (3hr.lecture; 2hr lab)

CGS0400

Programming in BASIC 2.5 credits

This is the first programming course using QuickBASIC. Requires no prior knowledge of programming. Students develop their own programs using flowcharts, and program shells. Fundamentals programming techniques, concepts, and commonly used algorithms are covered. Special fee. (75 contact hours)

CGS0405

Advanced "C"

Programming

An advanced study in the techniques of programming using the "C" language. Structured modular programming and data structure are emphasized throughout the course. Students are required to code and execute business applications. Prerequisite: CTS 0043. Special fee. (75 contact hours)

2.5 credits

CGS0500

Word Processing 1.5 credits

This is an introductory course using commercial microcomputer word processing software. The concepts, features, and commands of a word processing system are supplied to a variety of practical business applications. Classes are conducted in a hands-on lecture/laboratory environment. Each student is assigned a microcomputer to use during class. No previous computer training or experience is required. Special fee. (45 contact hours)

CGS0510

2.5 credits

Electronic Spreadsheets

2.5 credits with Applications

A comprehensive course in the use of a spreadsheet for microcomputers. The concepts, features, and commands of a spreadsheet are applied to a variety of applications. Programming concepts will be introduced. Classes are conducted in hands-on lecture/ laboratory environment. The content of this course will continually change to keep pace with current technology. Prerequisite: CGV 0010 or equivalent. Special fee. (75 contact

CGS0560

Microcomputer Operating

Systems (DOS) 2.5 credits

A comprehensive course in the use of operating systems for DOS microcomputers. DOS concept, features, commands and their applications are presented. Commercial utility programs, hard disk utilization, Edlin and DOS batch programming will be covered in detail. Special fee. (75 contact hours)

CGS0890

Networking Essentials 2.5 credits

The student will be provided the opportunity to develop the skills necessary to identify the type, components, and design of a Local Area Network most appropriate for a given site. Additionally, the student will identify media, differentiate between networking standards, protocols, access methods, and determine which would be most appropriate for a given LAN. Prerequisite: CGV 0010. Special fee. (75 contact hours)

CGS0948

Co-op Work

Experience 1-3 variable credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired an as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of CGS 0948 Co-Op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Special fee. (30-90 contact hours)

CGV0010

Introduction to

2.5 credits **Microcomputers**

This course introduces the student to modern microcomputer hardware and software. The topics covered include operation of microcomputer hardware and peripherals, operating system commands, word processing software and database management software. The 75 contact hours encompass both lecture and laboratory components. Special fee. (75 contact hours)

CGV0241

Microcomputer Software

Applications 1 credit

This course is intended to provide additional time-on-task for students who are attempting to fulfill the requirements of the business software applications certificate program. The course is individualized to accommodate itself to each student's need. Special fee. (30 contact hours)

CGV0250

Database Applications 2.5 credits

A comprehensive course in the use of a database for microcomputers. The concepts, features, and commands of a database are applied to a variety of applications. The content of this course will continually change to keep pace with current technology. Prerequisite: CGV 0010 or computer experience is required. Special fee. (75 contact hours)

CTS0027

Information Systems

Development 2.5 credits

This course teaches the design of management information systems (MIS) by using concepts of charting, investigating, documenting and reporting. This is developed by using computerized case study software. Special fee. (75 contact hours)



CTS0043 Introduction to the "C" Program

2.5 credits Profe

An introductory course covering the syntax and rules of the "C" language. The topics of program design, variables, output, flow control, and functions, are included. Students are required to code and execute business applications. Special fee. (75 contact hours)

CTS0045 Advanced

Programming in BASIC 2.5 credits

This is the second programming course using QuickBASIC with complex concepts, applications, files, design and algorithms. Course emphasizes problem solving using applications for commercial and business problems encountered by professional programmers. Special fee. (75 contact hours)

CTS0046

Microcomputer Assembly

Language 2.5 credits

A second or third level programming course using a macro assembler. Students will learn the basic architecture of a microprocessor, instruction set, and design, code and implement systems-level programs on a microcomputer. Students will develop applications and programs with minimal assistance. Special fee. (75 contact hours)

CTS0065

Database and Applications

& Programming 2.5 credits

This course is designed as an entry level programming language course for those who have a basic knowledge of microcomputer software. The student will create a database and then write user friendly programs to add, delete, and modify and create various reports. The 75 contact hours are comprised of both lecture and laboratory sessions or equivalent knowledge. Prerequisites: CGV 0010 or equivalent. Special fee. (75 contact hours)

CTS0066

Database Programming 2.5 credits

This is not an introductory course. Basic familiarity with creating and manipulating dBASE IV data files from the dot prompt and control center a prerequisite. Previous familiarity with frequently used dBASE IV commands, functions, and set commands is required. In this course you will create data files and information tackling procedures for someone else to use. Macros, program models, debugging techniques, networking, runtime modules, template language, and advanced business applications are included. Special fee. (75 contact hours)

CTS0080 Supporting Windows

Server 2.5 credits

This course includes a study of selection criteria for network hardware, management strategies, network performance optimization, advanced printing concepts, remote console management, multiple protocol support, and prevention and maintenance techniques. Special fee. (75 contact hours)

CTS0081

Supporting Windows

Professional 2.5 credits

A study of the terminology, components, design, installation and management of local area networks and a consideration of other data communication equipment. Featured topics: elements of LAN system, LAN standards, design considerations, installation, LAN administration, and user operation. Special fee. (75 contact hours)

CTS0091

Implementing a

Network Infrastructure 2.5 credits

The student will be provided the opportunity to develop the skills necessary to install, configure, manage, and support a network infrastructure. Additionally, the student will configure the DHCP Server service, configure the DNS Server service, configure WINS, configure network security protocols, configure network security by using Public Key Infrastructure (PKI), configure network security by using Internet Protocol Security (IPPSec), configure remote access to a network. Prerequisite: CTS 0080. Special fee. (75 contact hours)

CTS0092

Designing a

Network Infrastructure 2.5 credits

This course will provide the knowledge and skills necessary to develop a Windows networking services solution for enterprise networks. The course focuses on developing strategies for TCP/IP, DHCP, DNS, WINS, RAS, Remote Authentication Dial-in User Service (RADIUS), connection manager, routing, multicasting, demand-dial routing, VPN, IPSec, connection sharing, and proxy server. This course also introduces the process of translating business goals into strategies for implementing and managing the Windows networking services. Prerequisite: CTS 0093. Special fee. (75 contact hours)

CTS0093

Implementing Directory

Services 2.5 credits

The student will be provided the opportunity to gain the knowledge and skills necessary to install, configure, and administer Windows directory services. The course also focuses on implementing group policy and performing the group policy-related tasks required to centrally manage users and computers. Prerequisite: CTS 0080. Special fee. (75 contact hours)

CTS0094

Designing Directory

Services 2.5 credits

This course provides students with the knowledge and skills necessary to design a Windows directory services infrastructure in and enterprise network. Strategies are presented to assist the student in identifying the information technology needs of an organization, and then designing a directory services structure that meets those needs. Prerequisite: CTS 0093. Special fee. (75 contact hours)

CTS0317

Information Security 2.5 credits

This course provides the student with a complete foundation of knowledge for entering into or advancing in the information technology security field. Topics include: an introduction to general security concepts; communication security; infrastructure security; basic cryptography; operational and organizational security. Including topics from troubleshooting to performing a site survey, this course delivers hands-on training that benefits the novice as well as the experienced network professional. Prerequisites: CTS 0091. Laboratory fee. (3hr. lecture; 2hr.lab)

CTS0547

Infrastructure Security 2.5 credits

This course will explore concepts of network defense and countermeasures as well as hardware and software required to design, configure, and implement secure networks. Security topics covered include in-depth TCP/IP packet and signature analysis, securing routers, securing network resources through Access Control List (ACL), and implementation of IPSEC using Linux and Windows Operating Systems (OS). The student will obtain handson instruction installing and using various security tools. Techniques for collecting, monitoring and auditing various activities will be afforded to the student. Students will analyze threats and intrusions for various business scenarios, and then determine which security policy provides the most protection at given acceptable levels of risk in order to conduct normal business activities. The course will provide a detailed presentation on the Internet and WWW structure, and the security issues associated with begin online. A combination of lectures, demonstrations, discussions, online assignments, and scenariobased projects are used. This course may be repeated up to three times with different versions of the software when there have been substantial or significant version changes. Laboratory fee. (3hr. lecture; 2hr. lab)

Criminal Justice & Related Technologies

CJD0007

Basic Law

Enforcement Standards 1 13 credits

This course prepares Law Enforcement candidates for basic job skills as per the Criminal Justice Standards and Training Commission and Department of Education Framework for Law Enforcement. Special fee. (390 contact hours)

CJD0020

Pre-Service Basic

Law Enforcement Standards 1 7 credits This course provides training beyond the minimum required by the Criminal Justice Standards and Training for Law Enforcement certification. Includes fitness and practicums for pre-service candidates. (210 contact hours)

CJD0051

Public Service

Aide Basic Training 3.66 credits

This course prepares students to become community service officers/police service aides by providing them with the basic knowledge needed to conduct preliminary property crimes investigations. For School of Justice students only. Special fee. (110 contact hours)

CJD0210

State Exam Review for

Police Officer Certification 0.53 credits

This course is designed to provide substantive course review of the Criminal Justice Standards and Training basic law enforcement curriculum. Diligent use of review materials in this course will serve as excellent preparation for the FDLE police officer certification exam. This course for SJSA police trainees only. (15.9 Contact Hours)

CJD0254

Medical First Responder 1.6 credits

The First Responder program teaches criminal justice recruits for a variety of medical emergencies with minimal medical supplies. Students will learn to initiate treatment for a variety of medical emergencies, understand and perform CPR, and know when to activate EMS and perform basic life support until help arrives. CPR and First Responder certification cards are issued upon successful completion. Basic training Criminal Justice personnel only. Special fee. (48 contact hours)

CJD0274

Criminal Justice Weapons

for Law Enforcement 2 1.07 credits

This course is a supplement to CJD 0705. Additional time will be spent on lecture material relating to the basic fundamentals of firearms training. More time will also be provided for the student to perform additional relays of the course of fire. In addition, several optional methods of teaching discretionary shooting will be explored such as real-time laser simulations, interactive computer training, and live fire discretionary training. For SJSA Basic Law Enforcement Officer Trainees only. Special fee. (33 contact hours)

CJD0478

Correctional Officer Basic

Defensive Driver Training 0.53 credits

This course is a combination of classroom and practical exercises designed to evaluate the corrections recruit's ability to operate an emergency vehicle. The course includes, but is not limited to, psychological factors affecting vehicle operations, the elements of emergency driving skills, and skid-pan recoveries. For School of Justice basic Correctional Officer students only. Special fee. (16 contact hours)

CJD0480 Basic Correctional

Probation and

Parole Training 1 12 credits

This course prepares entry level correctional probation and parole officers with

basic job skills as per Florida Department of Law Enforcement, Criminal Justice Standards and Training, and Department of Education Framework. Topics include criminal law, correctional operations, criminal investigation, and supervision. Program is offered at Institute of Criminal Justice only. Special fee. (360 contact hours)

CJD0481

Basic Correctional

Probation and Parole 2 2 credits
Provides instruction beyond the minimum
required for Correctional Probation and
Parole Officer Certification. Includes practicums, evaluation and competency based
assessments. (60 contact hours)

CJD0482

Basic Correctional

Probation &

Parole Training 3 4 credits

This course prepares entry-level correctional probation and parole officers with skills in officer survival and medical emergencies. Students will be able to learn skills in defensive tactics and those skills needed to respond to medical emergencies. Special fee. (120 contact hours)

CJD0601

Traffic Accident

Investigator 2.66 credits

This course prepares students to become traf

This course prepares students to become traffic accident investigators by teaching them how to manage traffic accident crash scenes and how to complete an on-scene accident investigation. This course is limited to School of Justice students only. Special fee. (160 contact hours)

CID0620

Police Training Practicum 0.7 credits

This course is a culmination of practical exercises designed to evaluate the police trainee's acquisition of knowledge and skills learned throughout the basic training program. The recruit will be expected to perform as a police officer in a series of scenarios which include an in-progress felony, domestic disturbance, crises situation, vehicle stop, and a preliminary investigation. In addition to knowledge of law, police, and public safety procedures, a special emphasis will be placed on procedures, a special emphasis will be placed on the use of interpersonal skills. For School of Justice Basic Law Enforcement students only. Special fee. (21 contact hours)

CJD0704 Criminal Justice

Defensive Tactics 3.53 credits

The defensive tactics course is designed to teach future officers how to physically defend themselves, physically control persons under arrest, and know what level of force is appropriate under differing circumstances. Additionally, a physical conditioning program is part of this course. For School of Justice students only. Special fee. (105 contact hours)

CJD0705

Criminal Justice

Weapons 2.13 credits

The firearms course is designed to teach future officers how to use both handguns and shotguns. Students must qualify with both weapons under both daylight and night conditions. Students must also demonstrate ability for both accuracy and decision making. Students are also introduced to chemical weapons and their effects. Special fee. (63 contact hours)

CJD0723

Vehicle Operations 1.07 credits

This course introduces the student to the physiological and psychological factors affecting vehicle operations. It stresses the importance of vehicle maintenance, environmental conditions affecting driving, and elements of basic driving skills including skids and other causes of accidents. The student will demonstrate hands-on basic driving skills. For SJSA students only. Special fee. (32 contact hours)

CJD0730

Law Enforcement

Legal 3 1.07 credits

This section introduces the students to the laws relating to stop and frisk under Florida State Statutes and case law. The student learns to recognize when to detain a suspect and move toward probable cause is necessary. This section also covers traffic laws in addition to weapon laws, burglary, and some other procedural matters. For School of Justice students only. (33 contact hours)

CID0731

Law Enforcement Patrol 2.13 credits

This course is to provide potential police officers with the knowledge, skills and abilities to function as a Patrol Officer in a law enforcement agency. Various methods of patrol activity, officer safety, and techniques will be examined. This course will be limited to SJSA students only. (64 contact hours)

CJD0734

Law Enforcement

Investigation 2.13 credits

Provides training to new recruits in the search and location of physical evidence, along with the reproduction and identification, collection preservation and transporting of evidence to the crime laboratory. A basic understanding of the investigation of crimes needed by the street officer in their initial involvement of a crime scene will be provided. In addition, the fundamentals of interviewing, interrogation and statement taking will be addressed. For SJSA students only. (63 contact hours)

CJD0741

Emergency Preparedness 1.87 credits
This module is dedicated to training correc-

tional officers in handling emergency situations in a correctional setting such as fires, hostage situations, riots and disturbances, and hazardous materials, etc. For School of Justice students only. Special fee. (26 contact hours)



CID0747

State Exam Review for Correctional Officer Certification

0.7 credits

This course is designed to provide substantive course review of the Criminal Justice Standards and Training basic Correctional Officer curriculum. Diligent use of review materials in this course will serve as excellent preparation for the FDLE Correctional Officer Certification Exam. This course is for SJSA Correctional Officers only. (21 contact hours)

CID0750

Interpersonal Skills 2 1.67 credits

This course is continuation of CJD 0773 with greater emphasis on the inmates, their culture, how to communicate effectively, and ultimately to control inmate behaviors. The student will comprehend the characteristics, categories, purposes and functions of inmate societies. The factors of pressures, deprivations, and adjustments to imprisonment are also discussed. Students will learn the basic responsibilities and objectives of supervising inmates. For School of Justice students only. (51 contact hours)

CID0752

Correctional Operations 4.6 credits

This module is dedicated to training correctional officers to perform daily operational duties and their responsibilities in the performance of same. For School of Justice students only. (63 contact hours)

CJD0760

Criminal Justice Legal 1 1.53 credits

This section introduces students to basic concepts of criminal law. It provides them with legal terms and definitions and generally defines classifications of offenses. This section deals with very few substantive crimes with the exception of bribery and perjury. It primarily addresses Procedural Laws and rules such as Court Rules and Trial Procedures. For School of Justice students only. (45 contact hours)

CJD0761

Criminal Justice Legal 2 1.6 credits

This section is anchored by constitutional law and introduces the student to legal concepts such as probable cause, search and seizure concepts, as well as inchoate offenses, i.e., attempt, conspiracies and solicitation. There are more substantive offenses in this section, such as homicide and robbery, and fewer procedural matters, through involuntary admissions procedures and substance abuse services are covered. For School of Justice students only. (48 contact hours)

CJD0762 **Criminal Justice**

Communications

This course is designed to teach trainees to take statements from victim, witnesses, and suspects; write incident and arrest reports; and engage in note taking skills, such as grammar, spelling, sentence structure, etc., are

1.87 credits

covered to ensure accuracy, completeness, and clarity. For School of Justice students only. (57 contact hours)

CJD0763

Interpersonal Skills 2.2 credits

This course provides a basic understanding of human relations with an emphasis on the student's ability as a police officer to influence others in a positive manner using interpretation skills. The student will learn the important role interpersonal skills play in the relationship between the police and community. For School of Justice students only. (66 contact hours)

CJD0770

Criminal Justice Legal 1 1.53 credits

This section introduces the students to some historical and legal foundations. It also covers ethical considerations in corrections and them provides the student with a foundation in substantive and procedural law. The student is acquainted with constitutional rights of inmates through inmate rights and Responsibilities. For School of Justice students only. (46 clock hours)

CID0771

Criminal Justice Legal 2 0.73 credits

This section introduces the student to the foundation of constitutional law, establishing this country as a "rule of law" nation. It also presents concepts and rules of evidence. Substantive crimes such as homicide and theft are covered, in addition to some procedural matters such as involuntary admission procedures. For School of Justice students only. (21 contact hours)

CJD0772

Criminal Justice

Communications 1.4 credits

This course is designed to familiarize the students with the skills needed to take notes in practical exercises. Additionally, students will gain knowledge about the procedures to follow when taking statements from inmates, and they will demonstrate their ability to write reports relevant to the field: incident, disciplinary, use of force, etc. For School of Justice students only. (42 contact hours)

CJD0773

Interpersonal Skills 1 2.07 credits

This course provides an understanding of human behavior competencies as it relates to correction work. This course includes facts, information, and data concerning human behavior, with emphasis not only of the inmate population, but also on the Correction Officer as well. For School of Justice students only. (63 contact hours)

CID0781

Cross-Over Corrections

to Law Enforcement 1.6 credits

This course addresses the objectives in Legal 1 and 2, Interpersonal Skills and Communications from the Law Enforcement program that are not covered in the Correctional Officer program. This course is required by the Florida Department of Law Enforcement as part of the curriculum, a Florida correctional officer must have who is seeking Law Enforcement Certification. For School of Justice students only. Special fee. (48 contact hours)

CJD0795

Criminal Justice

Weapons for Corrections 2 0.27 credits This course is a supplement to CJD 0705. Additional time will be spent on lecture material relating to the basic fundamentals of firearms training. More time will also be provided

for the student to perform additional relays of the course of fire. For SJSA basic Correctional Officer training only. (9 contact hours)

CJD0800

Surety Agent 4 credits

This course includes introduction to the criminal justice system, duties of surety and bail bonding agents; bail bonding process, bail bond laws and regulations; contract law, civil and criminal laws, laws of arrest and arrest techniques, judgment and indemnifications. courtroom organizations, community relations, employability skills and firearm safety. Special fee. (120 contact hours)

CJK0006

Criminal Justice

Introduction and Law 2.23 credits

This course includes the basics of law, ethics, professionalism, working the community, the history of the criminal justice system in Florida and the Criminal Justice Standards and Training Commission. (67 contact hours)

CJK0010

Human Issues 1.67 credits

This course provides a basic understanding of human relations with an emphasis on the student's ability as a police officer to influence others in a positive manner using interpretation skills. The student will learn the important role interpersonal skills play in the relationship between the police and community. For School of Justice students only. (50 contact hours)

CJK0015

Communications 2.57 credits

This course is designed to teach trainees to take statements from victims, witnesses, and suspects; write incident and arrest reports; and engage in note taking skills, such as grammar, spelling, sentence structure, etc., are covered to ensure accuracy, completeness, and clarity. For School of Justice students only. (77 contact hours)

CJK0020

Law Enforcement

Vehicle Operations 1.6 credits

This course introduces the student to the physiological and psychological factors affecting vehicle operations. It stresses the importance of vehicle maintenance, environmental conditions affecting driving, and elements of basic driving skills including skids and other causes of accidents. The student will demonstrate hands-on basic driving skills. For School of Justice students only. (48 contact hours)

0**0** 2008-10 CATALOG

CJK0031 First Aid for

Criminal Justice Officers 1.33 credits

This course prepares criminal justice recruits for a variety of medical emergencies with minimal medical supplies. Students will learn to initiate treatment for a variety of medical emergencies, understand and perform CPR, and know when to activate EMS and perform basic life support until help arrives. CPR and First Responder certification cards are issued upon successful completion. Basic training for School of Justice students only. (40 contact hours)

CJK0040

Firearms 2.6-2.9 variable credits

This firearms course is designed to teach future officers how to use both handguns and shotguns. Students must qualify with both weapons under both daylight and night conditions. Students must also demonstrate ability for both accuracy and decision making. Students are also introduced to chemical weapons and their effects. (88-104 contact hours)

CJK0050 **Criminal Justice**

Defensive Tactics 2-3 variable credits

This defensive tactics course is designed to teach future officers how to physically defend themselves, physically control persons under arrest, and know what level of force is appropriate under differing circumstances. Additionally, a physical conditioning program is part of this course. For School of Justice students only. (80.1 Contact Hours)

CIK0060

Patrol 1.9 credits

This course provides potential police officers with the knowledge, skills and abilities to function as a patrol officer in a law enforcement agency. Various methods of patrol activity, officer safety, and techniques will be examined. For School of Justice students only. (57 contact hours)

CIK0070

Investigations 1.77 credits

This course provides training for new recruits in the search and location of physical evidence, along with the reproduction and identification collection, preservation and transporting of evidence to the crime laboratory. A basic understanding of the investigation of crimes needed by the street officer in their initial involvement of a crime scene will be provided. In addition, the fundamentals of interviewing, interrogation and statement taking will be addressed. For School of Justice students only. (53 contact hours)

CJK0075

Investigating Offenses 1.33 credits

This course includes the causes and effects of domestic violence; common facts and misconceptions about suicide and risks procedures for prevention and intervention and an officers responsibilities; identifying signs of adult, elder and child abuse and the proper procedure for reporting each. This course also includes methods and skills for conducting an initial investigation, a death: The definition, characteristics and situation in which an officer may encounter sudden infant death syndrome (SIDS); procedures for crime scene management; evidence collection and handling; developing information; and preparing and investigation report. (40 contact hours)

CJK0080

Traffic Stops 2.07 credits

This module includes the methods and skills for stopping a vehicle for a violation or other lawful reason; infraction; types of criminal violations and their elements: abandoned vehicle handling; procedures for making a felony stop and legal issues regarding traffic stops. (62 contact hours)

CJK0085

Traffic Crash

Investigations 1.07 credits

This course includes instruction on traffic crash investigation; knowledge of common violations resulting in crashes; information gathering skills; DUI enforcement techniques; identification and handling of evidence; photographing evidence; crash scene management; determining cause of accident; and completion of crash reports and driver exchange forms. (32 contact hours)

CIK0090

Tactical Applications 1.8 credits

This course includes the Florida court system structures and how courts relate to law enforcement; instruction in the first response to emergency situations and rescue; general information involving law enforcement officers dealing with bomb explosives, bomb threats and weapons of mass destruction. Students will learn skills to perform different law enforcement functions while assigned to a special detail such as indoor or outdoor public events; the elements of unlawful assemblies and riots; and types of force that can be used in riotous situations and riot control procedures. For School of Justice students only. (54 contact hours)

CJK0095

Criminal Justice

Special Topics 0.67 credits

In this course students will receive additional instruction on topics from Modules 1-4 to reinforce learning and strengthen skills as needed. Based on the school's prior training experience, the school will select suitable topic(s) and identify topic(s) to students prior to the starting date of the basic recruit training academy. For School of Justice students only. (20 contact hours)

CIT0354

Telecommunicator

Basic Training 6.93 credits

This course provides the basic skills and knowledge necessary to become a public safety telecommunicator. Emphasis is placed on communication skills, first responder, and knowledge of dispatch equipment and terminology, as well as accessing one's ability to work under pressure. Training is scenariobased with practical applications using dispatch equipment. For School of Justice students only. Special fee. (208 contact hours)

CJT0431

Parking Enforcement

Specialist Training 1 0.53 credits

This course prepares students to become parking enforcement specialists by teaching them traffic law, enforcement and control concepts. Course content will also include interpersonal skills, courtroom procedures and how to complete traffic citations. This course is limited to School of Justice students only. (15.9 Contact Hours)

CJT0800

Basic Security

Guard Training - Phase A 1 credit

This course provides the basic security training required by the State of Florida before an applicant may receive a "D" License as a Security Officer. Special fee. (40 contact hours)

CJT0801

Private Security Guard

Training 2:

Class "G" License 0.94 credits

This course is necessary for compliance with the state minimum training standard for a Class G (armed Security Guard License. (28.20 contact hours)

CJT0802

Basic Security

Officer Training - Phase B 0.5 credits

This is the second part of the state required basic D License course. It includes public relations, courtroom procedures, interviewing techniques, fundamentals of personal security, interpersonal communications, professional communications, traffic direction, crowd control, and special problems of security. This is required for first renewal of the D License. Special fee. (16 contact hours)

CJT0940

Telecommunicator

Field Experience and

Professional Development 1 credit

This course is a continuation of the basic telecommunicator course and exposes the student to various public safety arenas who utilize telecommunicators. In addition, job related career enhancement skills such as interviewing techniques and resume writing are explored. School of Justice students only. (30 contact hours)

Elderly & Disabled Care

HEV0813 Assessment

Comprehensive

This is a 45-hour course, within the Care

1.5 credits

Management with Elders Gerontology occupational track, designed to develop skills in administering the Comprehensive Assessment form used by state agencies and providers in determining elder care needs. Special fee. (45 contact hours)

1.5 credits



HEV0814

Aging Networks 1.5 credits

This is a 45-hour course designed to introduce aging policy issues and familiarize students with the aging network. Special fee. (45 contact hours)

HEV0835

Field Experience:

Recreational Therapy 1.5 credits This is a 45-hour activity designed to apply theoretical concepts in the Recreational Therapy occupational track classroom courses, through field work completed in a multicultural site which provides services to

elders. Special fee. (45 contact hours)

HEV0836

Motor Development:

Adult through Aging This is a 45-hour course designed to introduce the concepts of motor development and explore the relationship between motor development and health aging. This course is part of the recreational therapy occupational track. Special fee. (45 contact hours)

Engineering Technology-General

EER0344

Camcorder Repair 2.5 credits

This course covers the basic concepts and hands-on experience essential to perform troubleshooting and repair of camcorders presently on the market. Special fee. (75 contact hours)

EEV0002

Electronic Circuit

2.5 credits Analysis

The electronic circuit analysis course prepares electronic technology students to read and understand electronic schematics. Electronic symbols and the operations of most electronic components are covered in this course. Special fee. (75 contact hours)

EEV0402

Compact Disk Player -

Troubleshooting Repair 2.5 credits

The compact disk player troubleshooting and repair course prepares electronic technology students in the principles of sound recording and the operation of a complete compact disk recording system. Detailed circuit descriptions troubleshooting procedures and alignment procedures are to serve as examples of how to overcome malfunctioning CD players. Special fee. (75 contact hours)

EEV0403

Compact C and

8mm Camcorder Repair 2.5 credits

The camcorder repair course prepares electronic technology students to troubleshoot and repair camcorders (VHS, Compact C and 8mm). Principles of operation, troubleshooting and repair techniques for camcorders are covered in this course. Special fee. (75 contact hours)

EEV0538

Input/Output Devices 2 2.5 credits

The prospective network technician will learn the advanced concepts needed to understand the operations of Input and Output devices. Topics include an in depth analysis of all input/output devices associated with computer technology. Special fee. (75 contact hours)

EEV0556

Maintenance Troubleshooting

Network Devices 2 2.5 credits

The prospective network technician will learn concepts needed to understand and use microcomputer-based test equipment, proper documentation and trouble-shooting guidelines. Topics covered will be geared toward networked systems. Special fee. (75 contact hours)

EEV0638

FCC License

2.5 credits **Exam Preparation**

This is an analysis of the principles of radio wave transmission and reception. Various types of transmission are investigated. FCC licenses, laws, operating practices and broadcast station rules are reviewed. Special fee. (75 contact hours)

EEV0700

Input/Output Devices 1 2.5 credits

The prospective network technician will learn the concepts needed to understand the basics of input and output devices. Topics covered include an introduction to all input/ output devices associated with computer technology. Special fee. (75 contact hours)

Maintenance Troubleshooting

Network Devices 1 2.5 credits

The prospective network technician will learn concepts needed to understand the basis for maintaining and troubleshooting computer systems. Topics covered will include preventive maintenance, maintenance, environmental operating conditions and diagnostic tools. Special fee. (75 contact hours)

EEV0811

D.C. Analysis 3.2 credits

This course will introduce the field of electronics, clarify the basic laws of electricity, and provide hands-on training with various types of D.C. circuits and power supplies. Special fee. (95 contact hours)

EEV0812

A.C. Analysis 4.1 credits

This course will introduce the various types of A.C. circuits and provide hands-on training with these circuits and their power supplies. It will also point out business opportunities in the field. Special fee. (125 contact hours)

EEV0813

Solid State

Components and Circuits 4.2 credits

This course will introduce the solid state devices that are found in electronic equipment and provide hands-on training with circuits that contain these devices. Special fee. (125 contact hours)

EEV0814

Analog Circuits 5 credits

This course will introduce the various types of analog circuits and provide hands-on training with these circuits and their devices. Special fee. (150 contact hours)

EEV0815

Digital Fundamentals 5 credits

This course will introduce the various types of circuits that are operated on digital principles and provide hands-on training with these circuits and their conversion. Special fee. (150 contact hours)

EEV0821

Electronic Fundamentals 2.5 credits

The course will introduce paper lab and safety procedures, provide hands-on soldering training, and introduce proper recording and reporting procedures. Special fee. (75 contact hours)

EEV0826

Microprocessor Systems 5 credits

This course will introduce various memory devices, their circuits, and the peripherals that are associated with such systems. Special fee. (125 contact hours)

EEV0851

Microcomputer

Maintenance & Repair 1 2.5 credits

This course is designed to provide a technician with the theoretical and practical requirements for maintenance and repair of microcomputer equipment. Topics include data communication codes and standards, transmission impairment, modems with lab applications. Special fee. (75 contact hours)

EEV0852

Microcomputer

Maintenance & Repair 2 2.5 credits This course teaches troubleshooting skills to repair microcomputers and printers, with emphasis on a hard disk maintenance and repair. Special fee. (75 contact hours)

EEV0856 **TV Circuit**

Analysis

4 credits

This course introduces the student to electronic TV components, their functioning, troubleshooting and repair. Topics include power supply, picture tube circuits, and vertical and horizontal deflection circuits. Special fee. (120 contact hours)

EEV0857

Alarm Systems

Fundamentals 2 credits

This is a hands-on application course that covers basic electrical concepts such as circuits, diagrams, electrical units, resistors, Ohm's Law, measurements and test equipment used for alarm systems installation. Special fee. (60 contact hours)

EEV0858

Alarm System Components

2 credits

This is a hands-on application course that covers controls, silent alarms and local bells, batteries and power supplies as the components of alarms systems. Practice with each component and variation of systems is discussed. Special fee. (60 contact hours)

EEV0859 Advanced Alarm

Systems 2 credits

This is a hands-on application course that covers intrusion-detection by photoelectric beams, passive infrared detectors, ultrasonic and microwave detectors, proximity and sound detection. A typical service work day and its demands are covered. Special fee. (60 contact hours)

EEV0860

Alarm System

Troubleshooting 2 credits

This is a hands-on course application course that covers the more common kinds of trouble encountered in installation and repair of alarm systems. The types of protective loops, 7 steps of the troubleshooting method, and specific procedures are presented. Special fee. (60 contact hours)

EEV0947 Co-Op Work

Experience 2 1-3 variable credits

This course is designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisites: Cooperative Education Office approval and completion of 0948 Co-Op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (30-90 contact hours)

EEV0948 Co-op Work

Experience: EEV 1-3 variable credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisites: Cooperative Education Office approval and completion of EEV 0948 Co-Op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Special fee. (30-90 contact hours)

ETV0010

Introduction Drawing 1 4 credits

Fundamental principles of standard drafting include lettering, orthographic representation, pictorials and related topics. Required for students who have not had any previous drawing experience or courses, and who

do not meet requirements for ETD 0081C. Special fee. (120 contact hours)

TDR0106C

Technical Drawing 4 credits

This course focuses on the dimensioning practice, tolerance, welding drafting; screw thread drafting and developments are covered. Drafting is accomplished on conventional paper medium and in a CAD environment. Lab time is required. Prerequisite: ETD 0081C. Special fee. (120 contact hours)

TDR0110C

Technical Work

Drawing 1 4 credits

This is an advanced drafting course with emphasis on skills and techniques. Increased use of technical drafting standards and data in the preparation of detailed drawings. Detailed drawing prepared relating to gears, cams, fasteners, and piping. CAD drawing prepared with aid of a plotter. Prerequisite: ETD 0082C. Special fee. (120 contact hours)

TDR0300C

Introduction

To Micro CAD System 3 credits

This course introduces the student to a micro CAD system both hardware and software. Students will explore the advantage, and disadvantage, of CAD and be exposed to the basic operation of a CAD system. Special fee. (90 contact hours)

TDR0301C

Technical Drawing

- CAD 1 4 credits

This course focuses on drafting orientation, lettering, geometric construction, orthographic projection, pictorial drafting, sections and introduction to computer aided drafting. Lab time required. Special fee. (120 contact hours)

TDR0350C

DIGICAD Workshop 1.5 credits

This is a hands-on experience course with a sophisticated engineering software program. The participant will learn the commands of the programs and practice with applications that are able to be used in the field of engineering surveying. Special fee. (45 contact hours)

TDR0352C

Intermediate CAD

Architecture 5 credits

This course introduces the more sophisticated uses of the microcomputer for production of architectural drawings. More detailed drawings that incorporate reinforcing detail, electrical and electronic drawings, and pneumatic/hydraulic drawings will be prepared. Special fee. (150 contact hours)

TDR0356C

Advanced CAD-Technical 4 credits

This course focuses on the preparation of detailed drawings in 2-D and 3-D utilizing advanced practices with AutoCAD. Drawing

will be generated as machine assemblies, foundation plans, roofing schedules, wall and window sections, piping drawings and sheet metal developments. Bills of materials and scheduling are presented as integrated drawings. Prerequisite: ETD 0542C. Lab time required. Special fee. (120 contact hours)

TDR0504C

Architectural Drafting 5 credits

This course will prepare the students to interpret technical tables, prepare foundation plan and floor plan drawings, as well as elevation drawings with dimensions. Students will prepare a set of working drawings as the final class project. Special fee. (150 contact hours)

TDR0520C

Technical Work

Drawing 2 4 credits

This course focuses on the development of structural detailed working drawings. Involves study of structural shapes, properties, and methods of developing connections between members. Reinforced concrete construction covered with emphasis on architectural forming. Prerequisite: ETD 0083C. Lab time is required. Special fee. (120 contact hours)

TDR0521C

Structural Technical

Drafting 4 credits

This course focuses on the development of structural, fabrication, and erecting drawings. Involves the study of structural shapes, properties of shapes, methods of presenting field connections and approved drafting production practices. CAD practice required to develop plotted drawings. Lab time required. Special fee. (120 contact hours)

TDR0590C

Computer Applications

Architecture 5 credits

This course will be a review of all the program computer applications leading to the presentation of a comprehensive project that contains the tasks that have been included in previous CAD courses. Several more complex applications will be introduced. Special fee. (150 contact hours)

TDR0591C

Advanced CAD Architecture

5 credits

The student will be prepared to produce advanced computer-aided drawings of maps, civil and construction plans. Tasks required for a CAD student project. Special fee. (150 contact hours)

TDR0614C

Electronic Drafting 3 credits

This course covers basic graphical communications as applied to the electronic industry. Topics include electronic symbols, schematic drawings, circuit layouts, block diagrams, printed circuits, production drawings, and CAD electronic plotting. Lab time required. Special fee. (90 contact hours)



Environmental Studies

EVR0014 Introduction to Hazardous Materials and the Environment

2.5 credits

This course deals with the basic principles for the relationship between man and his environment. Emphasis is placed on an investigation into physical, biological, economic, social and political factors producing ecological changes. Effects of hazardous materials on the environment itself are also studied. Special fee. (75 contact hours)

EVR0031

Basic Environment

Compliance 2.5 credits

This course deals with environmental compliance in South Florida through State, Federal and local programs. Topics include environmental compliance, rules, and regulations, and enforcements. Field, office, lab, and legal procedures provide a holistic approach. Special fee. (75 contact hours)

EVR0232 Introduction to Environmental

Air Pollution 2.5 credits

This course studies the pollution of air due to the combustion of fuel for industrial production, transportation, and generation of electricity for domestic use. Discrete air pollution problems are identified; proper quality assurance/quality control, and regulations associated with air pollution are discussed. Special fee. (75 contact hours)

EVR0624

Basic Infectious

and Nuclear Materials 2.5 credits

This course covers the proper handling and disposal techniques for both infectious (biological) and nuclear (radioactive) materials. Personal hygiene and monitoring are emphasized, in addition to proper selection and use of personal protective equipment. Packaging and shipping are also covered. Special fee. (75 contact hours)

EVR0631

HAZMAT Communications 2.5 credits

This course explains the worker's right to know and the community's right to know about the hazards of having toxic materials in their environment. Topics include materials safety datasheets, NFPA requirements for labeling, and development of written procedures. Special fec. (75 contact hours)

EVR0634

Basic Hazardous Materials

ing. Special fee. (90 contact hours)

Emergency Response 3 credits
This course teaches the skills needed to
develop response tactics in the event of
an incident. Hazard analysis, contingency
plans and employee training are included.
Meets SARA requirement for response train-

EVR0690

Hazardous Materials Laboratory Analysis 3 credits

This course presents advanced techniques in instrumental analysis. Atomic absorption, spectrometry, gas chromatography, mass spectrometry, it in chromatography, UV-vis spectrophotometry, titrometry, analytical techniques, computer interfacing, and future trends are presented. Special fee. (90 contact hours)

EVR0807

Introduction to Industrial

Hazardous Waste

2.5 credits

This course covers industrial waste and the industries that generate it. Regulation of such waste products, identification of chemicals generated by industry inspection of facilities and state survey and sampling techniques are topics covered. Special fee. (75 contact hours)

EVR0891

Basic Open Flow

Channel Measurement 2.5 credits
Increasing concern for defending the environment from pollution has emphasized the need for flow measurements. Enforcement of water conservation and other regulatory

of water conservation and other regulatory requirements increase the need for dealing with open channel flow problems. Special fee. (75 contact hours)

EVR0893

Identification of

Environmental Pollutants 2.5 credits
This course addresses pollutants associated

with and generalized by industrial processes. Emphasis is based on analytical lab procedures used to detect pollutants, common industrial process description details, sample collection, containers and volumes, preservatives, and sampling handling. Special fee. (75 contact hours)

Film, Radio, TV Technology

RTT0002

Broadcast News 1.5 credits

This course will familiarize students with the procedures followed in producing and writing broadcast news. The student will become familiar with news writing formats and stylebook applications. The students will write several news stories and a newscast. Special fee. (45 contact hours)

RTT0003

Careers in Video 1 credit

This course is designed to confirm an overview of the varied possible professional choices in the entertainment field. To emphasize that the video industry is comprised of ever changing business and career opportunities. This course is designed to serve as a practical resource for those looking to enter the video industry. Special fee. (30 contact hours)

RTT0170

Television Graphics

Procedures 3 credits

This course requires the students to participate in the practical use of and production of

visual graphics material for television, covering the standards and procedures established in the field, and the most common techniques and materials. Special fee. (90 contact hours)

RTT0176

TV Production

Procedures 2 5 credits

Students will refine skills as a member of a TV studio production crew. Students will perform crew operations during various studio productions. Special fee. (150 contact hours)

RTT0177

Field Production

Procedures 1 5 credits

Students will participate in several single camera field productions. Students will shoot; edit and post produce single camera field productions. Special fee. (150 contact hours)

RTT0178

Field Production

Procedures 2 5 credits

Students will learn and participate in advanced single-camera production. Students will edit single-camera production using BetaCam SP A/B roll equipment. Students will learn and participate in a multi-camera format production outside the studio environment. Each student will perform various job functions, resulting in a class project. Special fee. (150 contact hours)

RTT0181

TV Production

Procedures 1 5 credits

This course is to familiarize the student with the different equipment that prepares them to function as a member of a technical team for a video production in a Television Studio. Special fee. (150 contact hours)

RTT0182

Television Directing

Procedures 5 credits

Students will learn the disciplines, techniques and procedures used by the Television Director during the studio production process. The student will assume the responsibilities of the television director and coordinate the various production elements from the control room. Students will learn key terms used by the director and master the control room equipment. Prerequisite: RTT 0176. Special fee. (150 contact hours)

RTT0184

TV Editing Procedures 5 credits

This course is designed to familiarize the student with an editing suite and to give the student the opportunity to perform the functions of an editor. In order to do this, we will use BetaCam editing equipment and the Sony BVE 910 edit control. Students will also operate character generators, switchers and DVE generators to enhance assignments. Non-Linear editing has been added to this course. Students will work with and get an appreciation on the AVID nonlinear editing system. Prerequisite: RTT 0177. Special fee. (150 contact hours)

RTT0189

TV Film Computer

Applications Procedures 3 credits

Applications of software and computer languages in the television industry. Includes introduction to integrated software for scriptwriting, storyboarding, production scheduling, cost controls, project inventory and computer generated graphics. Special fee. (90 contact hours)

RTT0193 Advanced Editing

Procedures 5 credits

This course is designed to familiarize students with nonlinear editing. The course also gives the student the opportunity to perform the activities of a nonlinear editor. In order to accomplish this, the course will use three nonlinear editing systems; the AVID and Media 100 nonlinear computer editing system for video and audio editing and DegiDesign with Pro Tools for audio only nonlinear editing. Prerequisite: RTT 0184. Special fee. (150 contact hours)

RTT0200

Broadcast

Communication Survey 1.5 credits

This course takes a look at the past, present and future of Broadcasting in the United States. Course content will include a brief history of broadcasting a look at the various technologies, and the relationship of Broadcast to the Government. The effect on human beings will also be examined. Special fee. (45 contact hours)

RTT0201

Radio Productions 3 credits

The purpose of this course is to prepare students for initial employment as a radio programming announcer broadcast technician, or to provide supplemental training for persons previously or currently employed in these occupations. Special fee. (90 contact hours)

RTT0210

Radio Programming

Operations 2.5 credits

This course provides instruction and practice in the preparation and delivery of various types of radio programming. Knowledge station organization and procedure is combined with announcing in a manner required of announcer-operators in smaller radio stations. Special fee. (75 contact hours)

RTT0222

Announcing on Radio 2.5 credits

This course emphasized the fundamentals of good speech, effective oral delivery, interview materials that are included in the third class license exam, and introduces employability skills needed in the industry. Special fee. (75 contact hours)

RTT0400

TV Master

Control Operations 3 credits

This course is designed to familiarize the student with master control operations typical of a commercial broadcast station, cable company or independent provider. The course includes station operation, programming, reading of logs, SMPTE time code reading, switching operations, audio design and operation, satellite and microwave operation. Also includes: back-timing calculations, emergency procedures, documentation of engineering errors, and other techniques typical of a master control room operator. Reinforcement of operational functions learned in Television Production 1 including, video tape, audio mixer, switcher, character generator, and routing switcher operations. Special fee. (90 contact hours)

RTT0940

Television Studio

Internship 1 5 credits

This is a 150-hour activity that provides hands-on experience in a commercial or inhouse television house production studio. A contractual agreement listing the learning objectives of the course must be drawn up and signed by the student, faculty member, and site supervisor. Special fee. (150 contact hours)

RTT0944

Radio Internship 1 5 credits

This course provides practice in the skills needed for employment in a smaller type radio station. The course is established by determination of six learning objectives which are approved and evaluated in writing by student, supervisor and faculty coordinator. Special fee. (150 contact hours)

RTT0945

Radio Internship 2 5 credits

This course provides more advanced practice in the skills needed for employment in a smaller type radio station. The course is established by determination of learning objectives which are approved and evaluated in writing by student, supervisor and faculty coordinator. Special fee. (150 contact hours)

Fire Science

FFP0020

Fire-Rescue Minimum

Standards Training 13.5 credits

A course designed to offer basic knowledge and skills as required by the Florida Firefighters Standards Counsel. The student will be eligible to take the state written and practical test. Special fee. (405 contact hours)

FFP0077

First Responder 1.5 credits

A training course for students who will provide basic life support to victims of emergencies, to minimize patient discomfort and prevent further injury. This course is a required part of fire fighter training. Special fee. (45 contact hours)

FFP0360

Driver/Engineer

3 credits

All emergency response organizations must train their equipment operators. This course is designed to qualify the student to operate emergency response vehicles. Prerequisites are: Active member of the fire/rescue and three years experience. Special fee. (90 contact hours)

General Business

GEB000

Entrepreneurship and

Private Enterprise System 2.5 credits
This course is designed to provide an introduction to the American private enterprise
system and to business problem solving
techniques. Topics include: human relations,
entrepreneurship, decision, making busi-

system and to business problem solving techniques. Topics include: human relations, entrepreneurship, decision making, business law concepts and characteristics of the American enterprise system. Special fee. (75 clock hours)

GEB0211

Effective Communication

for Today's Manager 1 credit

This course provides food store personnel with an overview of communication as a process loaded with concepts and misconceptions. Special fee. (30 contact hours)

GEB0251

Cultural Issues in

Conducting Business Abroad 1 credit

This course will examine the development of culture and foster its understanding, and will identify various behavioral patterns and communications styles within different cultures. In addition, this course will focus on the enhancement of interpersonal sensitivities during the interactions with individuals of different ethnicity, gender, age, background, etc., and the impact of these differences when conducting international activities. Special fee. (30 contact hours)

Graphic Arts

GRA0420

Computer Graphic Design 4 credits

This course is intended to train the desktop publishing student in programs that enable one to create and manipulate graphic illustrations. The two standard programs that are used in the industry are utilized, with lab activities that highlight important program features. Special fee. (120 contact hours)

GRA0430

Desktop Publishing 4 credits

Desktop publishing is the production of high quality printed publications using relatively inexpensive equipment: personal computers, desktop scanners, and laser printers. This class explores the qualities and abilities of Aldus PageMaker, and industry-standard page layout program. Class lectures are supported with audiovisual presentation and extensive handouts. Lab classes consist of a series of typical page layout jobs. Special fee. (120 contact hours)



GRA0441

Graphic Reproduction Processing

This course provides essential knowledge on the history, processes, and career potential in the graphic communications industry. The course will highlight the current methods used in printing to produce all types of printed communication. The course is a prerequisite to any serious student wanting a career in graphic communications, or someone in an

industry that needs a refresher course on the

fundamentals. Special fee. (60 contact hours)

GRA0446 Principles of

Typography 4 credits

Typography is the art of designing printed matter using type as a medium. The history and development of typography, the use of printer's measurements and the aesthetic uses of type will be covered in the lecture form. The production of learned through hands-on project assignments. Instruction also will include industry standard typesetting equipment and desktop publishing personal computers and software. Special fee. (120 contact hours)

GRA0451 **Graphic Photography**

Processes 4 credits

Graphic photo processes-line is a basic course in the use of a graphic arts process camera, films, and chemistry. Numerous hands-on projects will include determining exposure and development times, enlargements and reductions, copying, scaling, print making, and proofing. Special fee. (120 contact hours)

GRA0452

Halftone Processes

for Graphic Arts 4 credits

A halftone is a reproduction of a continuous tone photograph that has been converted into dots of various sizes so it can be reproduced by any of the major printing processes. The various size dots are so small and numerous that they fool the eye into seeing shades of gray similar to a continuous tone photo. Numerous hands-on projects will cover the use of halftone screens and the manipulation of tones by controlled exposures and development procedures. Prerequisite: GRA 0451. Special fee. (120 contact hours)

GRA0455 **Color Reproduction**

Technology 1 2 credits

The theory of how the eye distinguishes color based on its hue, brightness, and saturation is fully explained. The theory then is applied to how it is reproduced through the printing process. Course highlights include additive and subtractive colors, transmission and reflection copy, paper and ink requirements, and the different printing processes are discussed throughout this class. Special fee. (60 contact hours)

GRA0457

2 credits

Color Electronic

Scanning 3 credits

This course requires Color Reproduction Technology 1 as a prerequisite. The course is an advanced approach to electronic methods to color reproduction. The student will learn state-of-the-art methodology for color printing. Prerequisite: GRA 0455. Special fee. (90 contact hours)

GRA0460

Graphic Design 1

4 credits

This is an introduction to the basic skill technique of visual communication problems such as those involving perspective, proportion, and representative drawing. Special fee. (120 contact hours)

GRA0461

Graphic Design 2 4 credits

This course trains on the process of quality layout and graphic design. It covers studio projects such as ads, brochures, and logo designs. The basics of formal graphic design are covered in a creatively professional standard. Special fee. (120 contact hours)

GRA0462

Graphic Design 3 4 credits

This is a practical course in problem solving for graphic communications. Identity campaigns, logo designs, CD covers, magazine covers, and similar tasks will be undertaken with some use of electronic publishing skills in illustrator, freehand and Photoshop. Special fee. (120 contact hours)

GRA0463

Graphic Design 4 4 credits

This is a problem-solving course in graphic communications. Studio projects such as selfidentity campaigns, book covers, label design and similar are covered. Electronic publishing skills in packages as Illustrator, Freehand, and Photoshop are utilized. Special fee. (120 contact hours)

GRA0464

Advanced Electronic

Imaging 3.5 credits

This course is designed for the advanced electronic publisher, graphic designer, or graphic arts person who wishes to integrate high resolution, Macintosh based, color, electronic pre-press into their page layout programs. Special fee. (105 contact hours)

GRA0465

Digital Graphic Painter 4 credits

Students, working from photographs, represent the natural world on the newest artistic media: the personal computer. Fractal Design's Painter software enables student to use a wide variety of digital tools and surfaces to create electronic illustrations. Special fee. (120 contact hours)

GRA0472

Offset Stripping 2 4 credits

This is a vocational credit course that is an advanced course in film assembly for multicolor and 4 color process film assembly using the emulsion-up method. Hands-on projects will range from simple mechanically separate (fake color) projects to 4-color process separations for an 8-page brochure. This course is highly recommended because of the increased demand for color within the advertising field. Special fee. (120 contact hours)

GRA0474

Offset Presswork 1 4 credits

This is a vocational credit course that is divided into two sections: theory/practice and co-op training. The theory/practice section will cover the six main systems of a press covering the names of each part, its function, techniques and make-ready. The six systems are the feeder, register, main printing, delivery, dampening, and inking. Practice sessions setting up each system for each different paper sizes and stocks will be given to each student. The Co-op training section will have the student working in a local printing plant with live jobs to gain additional skills and to increase efficiency. Special fee. (120 contact hours)

GRA0481 Paper in

Graphics 1.5 credits

This course is a review of the various types and specifications of paper that are used for various types of graphic production tasks. The course is appropriate also for upgrading for persons involved in purchasing departments. Special fee. (45 contact hours)

GRA0482

Graphic Arts

Estimating 1 2 credits

Estimating is the developing of a price of a print job for the customer before it is actually printed, based on the jobs specifications and the print shop's capabilities. All aspects of the printing process are discussed as to the cost of materials and the amount of time to do each of the required procedures. The ability to do basic mathematical problem solving is required. Special fee. (60 contact hours)

GRA0631

Graphic Design 2 4 credits

This course trains on the process of quality layout and graphic design. It covers studio projects such as ads, brochures, and logo design. The basics of formal graphic design are covered in a creatively professional standards. Special fee. (120 contact hours)

GRA0840 Web Page

Design One

4 credits

An introduction to the technologies and techniques of designing for the World Wide Web. This course covers all the key elements of Web design from concept to completion. The course also covers a basic introduction to WYSIWYG HTML editors. Special fee. (120 contact hours)

GRA0948 Co-Op Work

Experience: GRA 1-3 variable credits

This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of GRA 0948 Co-op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Special fee. (30-90 contact hours)

GRV0540 Advanced Electronic Publishing

4 credits

This is a high-end electronic publishing program whose features include extremely tight typographic and photographic controls. A series of job layouts will be executed in the lab. Special fee. (120 contact hours)

Health Information Management

HIM0001 Introduction to

Medical Record Science 1 credit

This course introduces the function of a medical record department and its relationship to other departments within a health care facility. The legal and ethical aspects of the medical record; components of a medical health record; and its proper documentation, purposes, and uses are reviewed. Organization of the medical record profession and identification of its membership. Corequisite: HSC 0001. Special fee. (30 contact hours)

HIM0012 Medical Law and Ethics

1 credit

This course focuses on the ethics of medicine and medical practice. Legal requirements and implications to the medical profession are stressed. Special fee. (30 contact hours)

HIM0031 Medical Record Transcription 1

1.5 credits

This course covers the basic foundations of medical transcription to include role, ethics and legal responsibilities of the transcriptionist. Equipment, types of medical reports, quality control and reference materials are also discussed. Special fee. (45 contact hours)

HIM0031L

Medical Record Transciption Applications 1 6 credits

This course is the applications for HIM 0031. Perfection of typing skills and correct use of basic transcription equipment. Prerequisite: HIM 0031. Special fee. (180 contact hours)

HIM0032

Medical Record

Transcription 2 1.5 credits

This course is an in-depth study of types of medical reports and their components, qualitative and quantitative control standards and phraseology and language of various medical specialties. Special fee. (30-60 contact hours)

HIM0032L

Medical Record Transcription Applications 2 6 credits

This course is the applications for HIM 0032. Transcription from selected medical specialties. Prerequisite: HIM 0032. Special fee. (60-180 contact hours)

HIM0033

Medical Record

Transcription 3 1-2 variable credits
This course focuses on the reports and terminology used primarily in pathology and autopsy procedures. Employability skills will also be discussed. Special fee. (30-60 contact

HIM0033L

Medical Record

Transcription

Applications 3 2-7 variable credits

This course is the laboratory for HIM 0033. Transcriptions of reports and paraphrasing according to the content of dictation and terminology used in pathology and autopsies. Basic principles of word processing are practiced. A level of speed and accuracy consistent with employment standards is required. Prerequisite: HIM 0033. Special fee. (60-120 contact hours)

HIM0036

Medical Record Transcription Clinical Practice 5 credits

This course focuses on the clinical practice in various health care settings in the community. The student will utilize all types of medical transcription procedures in preparation for transition into the work place. Special fee. Prerequisites: HIM 0031, 0031L, 0032, 0032L. (150 contact hours)

HIM0220

ICD-9-CM Coding 1 1 credit

The organization and development of nomenclatures and classification systems. Introduction to the international classification of disease (ICD-9-CM), volumes 1, 2, and 3. The characteristics and conventions of ICD-9-CM. Special fee. (30 contact hours)

HIM0220L

ICD-9-CM Coding

Applications Laboratory 1 1 credit This course deals with the application of the basic principles, characteristics and conventions of ICD-9-CM. Special fee. (30 contact hours)

HIM0221

ICD-9-CM Coding 2 1.5 credits

This course focuses on the analysis and coding of diagnosis, procedures and symptoms

with ICD-9-CM. Definitions and principles of the Uniform Hospital Discharge Data Set (UHDDS) with emphasis on assignments of the principal diagnosis and sequencing. Special fee. (45 contact hours)

HIM0221L

ICD-9-CM Coding

Applications Laboratory 1 2 credits
This course focuses on analyzing and
coding of diagnosis, procedures, and
symptoms with ICD-9-CM. Application
of principles of the Uniform Hospital
Discharge Data Set (UHDDS), selection of
the principle diagnosis, and sequencing.

Prerequisite: HIM 0220L; corequisite: HIM

0221. Special fee. (60 contact hours)

HIM0230

ICD-9-CM Coding 3 1.5 credits

The relationship of diagnosis related groups (DRGS) and the Protective Payment System (PPS) to coding. The components of the DRG system and the Protective Payment regulations. Procedures for ensuring data quality. Special fee. (45 contact hours)

HIM0230L

ICD-9-CM Coding

Applications 3 Laboratory 2 credits This course focuses on the application of the Prospective Payment Regulations for DRG validation assignment of the DRGs and procedures for ensuring data quality. Prerequisite: HIM 0221L; corequisite: HIM 0230. Special fee. (60 contact hours)

HIM0253

Current Procedural

Terminology (CPT-4) Coding 1.5 credits Current procedural terminology (CPT-4) coding principles are emphasized. The course will involve activities in which medical record professionals code and classify procedures in CPT for purposes in standardization, retrieval, and statistical analysis. Special fees. (45 contact hours)

HIM0271

Computerized Medical

Insurance Billing 1.5 credits

Computers in the medical office and their use in billing insurance are the focus of this course. Electronic claims transmission and how it affects cash flow in the medical office is explored. The advantages of a computer system versus a manual system are discussed. Special fee. (30 contact hours)

HIM0271L

Computerized Medical Insurance Billing

Applications 1.5 credits

This course addresses applications for automated medical insurance billing. The student will learn how to file medical insurance claims using one or more medical insurance billing software programs. Electronic claims transmission is explored. Emphasis is placed on understanding the insurance claim process from beginning to end. Corequisite: HIM 0271. Special fee. (45 contact hours)



HIM0274

Health Insurance Claims/ Delinquent Claims

and Problem Solving 1.5 credits

This course reveals how insurance claims are developed and processed from the health care provider's office to the insurance company. Delinquent claims and solving common billing problems are explored. Various health plans are discussed. Prerequisites: HIM 0221, 0221L; Corequisites: HIM 0230, 0230L. Special fee. (45 contact hours)

HIM0280C

Physician Coding 2 credits

This course will examine coding, data quality, and physician services billing. Students learn to read and interpret physician office documentation. Special emphasis is placed on assigning Evaluation and Management (E/M) codes, outpatient diagnostic coding guidelines, Current Procedural Terminology (CPT), Health Care Financing Administration Common Procedure Coding Systems (HCPCS) codes, and local codes. Prerequisite: HIM0250; Corerequisites: HIM0271, HIM0271L. Special fee. (60 contact hours)

HIM0433

Basic Principles of Disease 2 credits

Disease, its etiology, and pathophysiological nature. Medical complications and manifestations of diseased states also included. Special fee. (60 contact hours)

HIM0450

Human Anatomy

& Physiology for Health

Information Management 2 credits

The structure and functions of the systems of the human body are emphasized. Includes the dynamics of physiology, terminology and physiological relationships of the systems. Special fee. (60 contact hours)

HIM0470

Basic Medical Terminology 1 credit

Analysis of medical terms to build a vocabulary in medical terminology. The student will learn a word building systems of word roots, suffixes, and prefixes. Special fee. (30 contact hours)

HIM0471

Clinical Terminology 1.5 credits

Expansion of medical vocabulary to include: cancer medicine, pharmacology, and radiology, and nuclear medicine, psychiatry, procedures and medical complications. Special fee. (45 contact hours)

нім0615

Computer Operations

for Medical Applications 1 credit

This course provides instruction in basic wordprocessing skills that are required to perform computer operations in health care facilities. Special fee. (30 contact hours)

HIM0817

Coding Clinical Practice 3.8 credits

The student is assigned to a health care facility for a supervised clinical experience in all

aspects of coding and DRG assignment. There is a special emphasis on employability skills and safety/security procedures. Prerequisites: HIM 0220, 0221, 0230, 0250, 0271. Special fee. (120 contact hours)

Health Science

HSC0003

Introduction to

Health Care 3 credits

An introduction to the health care environment, this course focuses on the health care team and delivery systems. Emphasis is placed on legal responsibilities, ethical issues, safety, infection control, communication, interpersonal behaviors, wellness, and disease. (90 contact hours)

HSC0995

Introduction to

Health Care3 credits
To be used only for Procedure 110:815736.

Management

MAN0019

Introduction to

Management 2.5 credits

This course is designed to provide an introduction to Management and its basic functions. Tapes include human relations, entrepreneurship, and goal setting and planning, decision making and motivation, and counseling in problem situations. Special fee. (75 contact hours)

MAN0040

Effective Supervision 2.5 credits

This course helps develop the skills that are necessary for success in a supervisory or managerial position. Topics include communication skills, leadership and motivation, and counseling in problem situations. Special fee. (75 contact hours)

MAN0220

Small Business

Management 1 credit

This course assists the participant to analyze and clarify the goal of establishing a business, reviews suggestions from successful owners, and helps develop a specific plan for a business. Special fee. (30 contact hours)

MNA0102

The Managerial Woman 1 credit

This course identifies the behaviors and attitudes that help or hinder women managers, observes successful models, and reviews suggestions for increasing success as a woman manager. Special fee. (30 contact hours)

MNA0103

Human Relations at Work

2.5 credits

This course explains specific ways to improve interpersonal communications and other human relations skills. Students will also examine the role of self-esteem, values, attitude, and personality traits in performing their job. Special fee. (75 contact hours)

MNA0170

Human Relations

Skills 1 credit

This course is meant to develop skills for dealing more effectively with other people in working relationships. Special fee. (30 contact hours)

MNA0347

Effective

Supervision Skills 1 credit

This course identifies major responsibilities of a supervisor, lists the skills essential for carrying out these responsibilities, evaluates personal strengths and weaknesses, and demonstrates effective techniques for supervision. Special fee. (30 contact hours)

MNA0762

Success/Goal Achievement 1 credit

This course teaches how to set and motivate oneself to goals, practice using visualization and positive self-talk, and recognize characteristics of successful persons. Special fee. (30 contact hours)

MNA0789

Presentation

Skills Business 1 credit

This course intends to make the participant aware of the specific steps necessary for making an oral or written communication. Special fee. (30 contact hours)

Marketing

MKA0011

Survey of Marketing 2.5 credits

This course represents the key role of marketing in today's business-oriented society. The participant is required to apply the basic concepts of marketing to a local business enterprises, and hands-on application is the focus of the course. Special fee. (75 contact hours)

MKA0023

Effectiveness

in Sales 1 credit

This course helps participants identify strengths and weaknesses in sales effectiveness, analyzes one's sales approach with a selected customer, helps improve negotiating skills, and review suggestions from experts in salesmanship. Special fee. (30 contact hours)

MKA0046

Customer Service 1 credit

This course identifies problems with customer service that are common to many organizations, teaches the participant to deal with difficult customers, and develop strategies for improving customer service in one's organization. Special fee. (30 contact hours)

2.5 credits

00 2008-10 CATALOG

MKA0061 Strategic Marketing for the Small Business

2.5 credits

The course provides strategic and practical applications for the small business owner and entrepreneur. Topics to be covered are marketing mix, small business marketing, low cost media marketing strategies, recession planning, and the development of a marketing plan. Special fee. (75 contact hours)

MKA0243

Introduction to Foreign Trade 1 credit This course will serve as an overview of the international business environment and the institutions which affect business in the international arena. International economic. political, cultural, and trade business issues will be analyzed and international business theory will be introduced within a practical application format. A broad view of the international economy will be included as well as the importance and impact of economic interdependence. Special fee. (30 contact hours)

MKA0242

Export/Import Marketing

Introduction 2.5 credits

This is a practical course designed to assist the participant enter the field of importing and exporting in a metropolitan that is of the major international marketing areas in the world. A step-by-step application of procedures is followed. Special fee. (75 contact hours)

MKA0244 **Gathering Facts**

for International Marketing 1 credit

This course will help participants identify profitable international markets and business areas, as well as new product lines. Sources of information for successful international marketing will be identified and discussed. Special fee. (30 contact hours)

MKA0245

Import/Export 1 1 credit

This is a nuts and bolts class for the novice and the experienced importer or exporter. The student will learn how to start and maintain an import/export company, how to identify the market, find the supplies and customers, and buy and sell overseas. Special fee. (30 contact hours)

MKA0246

Import/Export 2 1 credit

This is a continuation of Import/Export 1. Previous topics will be reviewed and will continue with these topics; buying and selling overseas, how to ship and document correctly, maintaining business records, what taxes are to be paid, and to make a profit. Special fee. (30 contact hours)

MKA0248

Marketing Strategies

for Foreign Trade 1 credit

This course will address the international trade globalization and the specific characteristics of different markets, not only from a strategic viewpoint but also from a productspecific perspective. Geo-demographic distribution of the "common markets" will also be discussed. Special fee. (30 contact hours)

MKA0516

Public Relations 2.5 credits

The goal of Public Relations, is that the students gain valuable skills and insights related to the Public Relations professional, which will enable them to become more productive employees and entrepreneurs. Students will gain insight into business problem analysis, and will receive practical experience in both written and oral communication skills. Special fee. (75 contact hours)

MKA0623

Food Store Sanitation 1.5 credits

This course provides food store personnel with a comprehensive understanding and basic knowledge needed to plan and implement a workable sanitation plan and to show how to keep it going while saving money too! Special fee. (45 contact hours)

MKA0624

Food Store Security 1 credit

This course provides food store personnel with a comprehensive procedures and policies to follow to prevent employee theft, vendor theft, front end losses, shoplifting, robberies, and burglaries, thereby reducing figures and increasing store profits. Special fee. (30 contact hours)

MKA0625

Food Merchandising:

Principles and Practices 1.5 credits This course provides food store personnel

with a comprehensive understanding of the basic principles underlying food merchandising practices in the United States. Special fee. (45 contact hours)

MKA0626

Grocery Management

Operations 1 credit

This course provides practical instruction in essential management areas such as inventory management, merchandising, operating for profit, as well presenting a product breakdown of the grocery department such as dairy, frozen foods, general merchandise, health and beauty aides. Special fee. (30 contact hours)

MKA0948

Co-op Work

Experience: MKA 1-3 variable credits This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of MKA 0948 Co-Op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Special fee. (30-90 contact hours)

Massage Therapy

MSS0156

Anatomy and Physiology for Massage Therapy

This course will focus on the relationship between the anatomical and physiological

effects of massage therapy on the body. Students will focus on the structure of organs, muscles, bones and tissues. Primary focus will center on the muscular-skeletal system and innervations. Special fee. (75 contact hours)

MSS0156L

Anatomy and Physiology

for Massage

Therapy Laboratory 2.5 credits

This course will examine the practical application and physiological effects of massage therapy on the body. Students will focus on the structure of organs, muscles, bones and tissues. Primary focus will center on the muscular-skeletal systems and innervations as well as clinical pathologies related on those systems. Special fee. (75 contact hours)

MSS0215

History and Standards

for Massage Therapy 1 credit

This course examines the history and development of massage therapy, basic legal concepts related to health care employment, and legal requirements for practice as a Massage Therapist in the State of Florida. Special fee. (30 contact hours)

MSS0250

Introduction to

Massage Therapy 1 credit

This course focuses on the theories and principles of therapeutic massage. The Massage Therapist/Client Relationship, the effects on massage on the systems of the body, massage facilities, equipment/supplies, and furniture requirements will be discussed. Special fee. (30 contact hours)

MSS0250L

Introduction to Massage

Therapy Laboratory 6 credits Laboratory for MSS 0250. This course provides opportunities for the practical application of the theories and principles of therapeutic massage. Special fee. (180 contact hours)

MSS0281

Allied Modalities 3.5 credits

A study of the advanced theories and techniques for massage therapy. Content includes: oriental bodywork, reflexology, trager approach, rolfing, craniosacral therapy, infant massage, pregnancy massage and aromatherapy. Special fee. (105 contact hours)

MSS0300

Hydrotherapy Modalities 1 credit

This course focuses on the history and development of hydrotherapy, application in equipment used, and the associated standards. Special fee. (30 contact hours)



MSS0300L

Hydrotherapy Modalities

1.5 credits Laboratory

This course presents opportunity for the students to safely and effectively apply various types of hydrotherapy and evaluate their effectiveness. Special fee. (45 contact hours)

MSS0803C

Massage Therapy Clinical Practicum

3 credits

This course provides the student with the opportunity to practice and further develop an understanding of various massage techniques in a clinical placement setting under supervision of a licensed massage therapist. Special fee. (90 contact hours)

MSS0995

Massage Therapy - Accelerated

13.5 credits

This course is designed to provide PSAV credit for students with training and State of Florida licensure as a physical therapist or physical therapist assistant. Students must provide documentation of a current state license and be a graduate of an accredited program. This course requires special permission and students must contact the program coordinator for registration approval. (240 contact hours)

MSS0996

Massage Therapy

- Transitional 8 credits

This course is designed to provide PSAV credit for students with training and State of Florida licensure as an allied health professional or registered nurse. Students must provide documentation of a current state license and be a graduate of an approved associate degree program. This course requires special permission and students must contact the program coordinator for registration approval. (240 contact hours)

Mathematics - Vocational Level

MTB0102

Business Mathematics

This course is a review of basic mathematics: in business. Topics include but are not limited to the following: cash and trade discounts, commissions, mark-up, depreciation, interest and bank discounts, payroll records, taxes, analysis of financial statements, stocks and bonds, inventory calculations, notes and installment credit, bank records, annuities, and sinking funds. Special fee. (75 contact hours)

MTB0310

Technical Mathematics 3 credits

This course focuses on the orientation and usage of the scientific calculator as used in all field of engineering technology. The student works with a wide range of application mathematics which is utilized in engineering, building construction, and architecture offices locally and nationally. Skill is developed in each operation of the calculator by lab and homework practice. Special fee. (90 contact

Medical Assisting

MEA0204

Theoretical Aspects of Clinical Skills

1 credit

This course is designed to develop and further support students' knowledge and ability to organize and work efficiently and effectively in both performing and assisting with clinical procedures performed in medical offices. Emphasis will be on the role and responsibility of the medical assistant. (30 contact hours)

MEA0204L Application of

2 credits

Clinical Skills This course is designed to develop and support students' ability to perform and assist in basic clinical skills. Emphasis will be on the role and responsibility of the medical assistant in performing sterile techniques and the use of organization and efficiency in performing and assisting with patient examination, sterile procedures, and diagnostic procedures and treatment performed in medical offices. Special fee. (60 contact hours)

Anatomy and Physiology and Medical Terminology 2.3 credits

This course is designed to introduce the student to basic anatomy and physiology and to develop the ability to communicate verbally and in writing within the medical field. Special fee. (60 contact hours)

Pathophysiology & Disease for Medical Assistants 4 credits

This course is designed to introduce students to common diseases and medical conditions which affect patients who present themselves to medical offices for diagnosis and treatment. Emphasis will be on the role and responsibility of the medical assistant in prevention, diagnosis, and treatment. (120 contact hours)

MEA0242

Pharmacology for the Medical Assistant

3 credits This course is designed to introduce students to principles of pharmacology and provide a basis to comprehend the role and responsibility of medical assistants in administering medication. Emphasis will be placed on calculation of dosages, frequently used drugs, and classification of drugs as they relate to the body systems. Special fee. (90 contact

MEA0251

Electrocardiography/Emergency

2 credits **Procedures**

The nature and purpose of the electrocardiograph (EKG); maintenance of equipment and materials needed; preparation of the patient and the procedure for taking and mounting the EKG record and monitoring the record for abnormal or erratic tracings. The maintenance of emergency equipment and implementing emergency procedures in the medical office. Special fee. (60 contact hours)

Physician Office

Laboratory Procedures 2 credits

Theoretical concepts of specimen collection and processing. This course focuses on the fundamentals of diagnostic tests, including urinalysis, basic office bacteriology, hematology, and blood chemistry. The principles of aseptic techniques, infection control, and safety procedures are discussed. Compliance with quality assurance practices is emphasized. (60 contact hours)

MEA0254L

Physician Office Laboratory Procedure Applications 2 credits

A clinical laboratory course designed for the Medical Assistant student to practice specimen collection, microscopy and urinalysis. Includes basic office bacteriology, hematology, and blood chemistry. The student will apply principles of aseptic techniques and infection control. Special

MEA0258

Radiology for

fee. (60 contact hours)

the Medical Assistant 3 credits

This course focuses on the basic principles of x-ray, film handling and processing, radiographic technique, and radiation biology. The course prepares the student to take the examination given by the Florida Department of Professional Regulations (DPR) for the Basic Radiographer License. Special fee. (90 contact hours)

MEA0274

Medical Coding/Insurance

Billing with Collections 4 credits Processing health insurance claims using procedural and diagnostic coding. The student will learn and apply current government regulations affecting third-party reimbursement. Billing, electronic claims transmission, and collection systems are emphasized. Special

MEA0322

Office Management and Professional Issues

fee. (120 contact hours)

for the Medical Assistant 3 credits

Office management procedures, including planning and organization; financial and medical record keeping procedures; billing and collection; processing insurance claims using procedural and diagnostic coding. Legal and ethical responsibilities; credentialing and other professional issues of medical assisting. Special fee. (90 contact hours)

MEA0343 Computers in the Medical Office

3 credits

The application of computer concepts to medical office practices. The student will keyboard documents using word processing software. Emphasis will be on operating transcription equipment and transcribing medical records. The student will also be introduced to electronic spreadsheet and database applications. Special fee. (90 contact hours)

MEA0802

Clinical Externship

for the Medical Assistant 3 credits

This course is designed to provide students with experiences in the practice of the clinical aspect of medical assisting. Students will be assigned to physician's office or clinics where they will provide direct patient care under the guidance of an experienced Medical Assistant. Special fee (90 contact hours)

MEA0810

Administrative Externship

for the Medical Assistant 3 credits

The student is assigned to a physician's office, clinic, laboratory, or other community health care facility. Emphasis is on integrating basic administrative skills demonstrated in previous courses. (90 contact hours)

MEA0832

Diagnostic Externship

in Medical Assistant 3 credits

This course is designed to provide students with experiences in the diagnostic aspect of medical assisting. Students will be assigned to physician's office or clinics where they will perform diagnostic clinical laboratory procedures, electrocardiographic and basic x-ray procedures under the guidance of an experienced medical assistant. Special fee. (90 contact hours)

Medical Laboratory Technology

MLT0049

Phlebotomy Practicum 1.5 credits

This course is designed to prepare students to draw blood by venipuncture and capillary puncture and to prepare them for employment in a hospital laboratory, blood center, or other health care facility. Students are taught safe and efficient work practices in obtaining adequate and correct blood specimens, labeling specimens, and transporting specimens correctly to the appropriate laboratory sections. The Center for Disease Control (CDC) guidelines for HIV/AIDS, Hepatitis B and other diseases are stressed. (45 contact hours)

MLV0040

Phlebotomy Theory 0.5 credits

This course covers the theory of phlebotomy techniques by venipuncture and skin puncture. This includes basic anatomy and physiology of the circulatory system, types of tubes to select for various blood tests, possible interfering substances, hospital hierarchy, pro-

fessionalism, risk factors for Hepatitis, AIDS, and all sexually transmitted diseases, infection control guidelines, and employability skills. Special fee. (15 contact hours)

MLV0041

Practical Aspects of Phlebotomy

0.5 credits

This course covers the collection of blood by venipuncture, skin puncture and donor room techniques. This includes the handling, labeling, transporting, and logging-in of specimens as well as the demonstration of correct infection control techniques. Special fee. (15 contact hours)

Office Technology

OCA0312

Advanced Word

Processing 2.5 credits

Students will complete formatting applications on microcomputers using at least two microcomputer word processing programs. Comparisons of most recent release to that of former releases will be made; use of program dictionary, thesaurus, and electronic publishing will be included. Special fee. (75 contact hours)

OFT0712

Introduction to Word

Processing/Transcription 2.5 credits

This course provides a comprehensive orientation to the features of one or more leading word processing software programs (i.e., WordPerfect) with hands-on experience in a lecture/laboratory environment. Topics include: creating, editing, formatting, and printing simple documents; blocking text for modification; working with hidden codes; moving and copying paragraphs; searching and replacing words; and using the speller and thesaurus. No previous computer training or experience required. Basic control of the keyboard is highly recommended prior to this class. Special fee. (75 contact hours)

OTA0101

Beginning Keyboarding 1.5 credits

This course emphasizes techniques and skills in keyboarding/typewriting and introduces how to format business papers such as letters, manuscripts and tabulated material. Students who have satisfactorily completed one year of typewriting in high school normally should not enroll in this course. Special fee. (45 contact hours)

OTA0102

Keyboarding 1 2.5 credits

This course introduces techniques to maximize speed and accuracy, which will allow students, maximized office productivity. Prerequisite: OTA 0101 or one year of high school typewriting with a minimum speed of 35 wpm. Special fee. (75 contact hours)

OTA0104

Advanced Keyboarding 2.5 credits

This course presents advanced formatting/ typewriting work including: detailed business reports, office correspondence, tables, legal and/or medical documents. Students are required to use word processing skills and develop straight copy speed to meet office production standards. Prerequisites: OTA 0102 with a grade of C or better, and OFT 0712 with a grade of C or better. Special fee. (75 contact hours)

OTA0171

Machine Transcription 2.5 credits

This course is designed to enable the student to learn to transcribe from recorded dictation. Specifically, the student will learn to transcribe business documents in acceptable format. Special fee. (75 contact hours)

OTA0301

Oral Business

Communication 0.5-1.5 variable credits This course provides training for effective listening, verbal and non-verbal communications skills in a business environment. Special fee. (15-45 contact hours)

OTA0303

Writing for Business 2.5 credits

This course is designed for students who are interested in developing a new attitude regarding business correspondence by omitting old verbiage. Students will learn to utilize and demonstrate good communication skills in their business writing. Special fee. (75 contact hours)

OTA0311

Basic Business

English 2-2 variable credits

This course prepares the student to demonstrate skills in grammar, punctuation, spelling and proofreading required for work in a business or office environment. Special fee. (60-75 contact hours)

OTA0421

Office Procedures 1 2.5 credits

This course introduces students to careers in Office Technology and emphasizes various ways information is electronically processed in today's office environment. Special emphasis is placed on units in career information, business telephone usage, filing, and human relations skills needed to be successful as an office worker. Special fee. (75 contact hours)

OTA0426

Office Procedures 2 2.5 credits

This course is designed to provide students with advanced realistic office applications and problems that will require students to perform specific outcomes at required competency level. Special fee. (75 contact hours)

OTA0470

Legal Office Procedures 2.5 credits

This course is designed to train students to become entry-level assistants to paralegals/ legal assistants and attorneys. Specifically, it will provide skills for working in a legal office. It will also enable secretaries to make the transition from business and industry to the legal field. Special fee. (75 contact hours)

252



OTA0472

Legal Secretarial Preparation 2 1 credit

This course provides the basis necessary to fulfill the requirements in the different environments of the legal secretary field. The differences and similarities in litigation/court process as it relates to criminal procedures, estate planning, real estate and business organizations will be discussed. Special fee. (30 contact hours)

OTA0753

Legal Secretary Preparation 1 credit

This course is designed to introduce the federal and Florida course system, civil litigation, criminal and family law. Terminology and legal concepts are enhanced by the use of hypothetical cases. Last class includes information on obtaining employment and interviewing in the legal environment. Special fee. (30 contact hours)

OTA0905

Open Office Technology Lab 1 credit

This course is intended to provide additional time-on task for students who are attempting to fulfill the requirements of the word-processing or secretarial career certificate programs. The course is individualized to accommodate itself to each student's needs. Special fee. (30 contact hours)

OTA0906

Open Wordprocessing Lab 1 credit

This is an individualized applications activity directed to enable the participant to build skills in the WordPerfect program to the level of 45 wpm. Special fee. (30 contact hours)

OTA0932

Professional Legal

Secretary (PLS) Review 1.5 credits

This is a 45-hour overview of the PLS Examination utilizing group discussions, formal instruction, and materials created specifically for the PLS certification program. It is designed to help prepare those students seeking the PLS designation for the PLS Certification Exam. Special fee. (45 contact hours)

Pharmacy Technician

PTN0003

Introduction to

Pharmacy Technician Practice 3 credits

This course is an orientation to the overall functions and services of a hospital pharmacy. Special fee. (90 contact hours)

PTN0004

Pharmacy Technician

Applications 3 credits

This course focuses on the development of skills relating to the specific, technical, manipulative and clerical tasks involved with the preparation and distribution of medications under the supervision of Licensed Pharmacists. Special fee. (90 contact hours)

PTN0006

Medical Terminology

& Calculations for Pharmacy Technicians

This course involves medical abbreviations, terminology, chemical symbols, formulas, and incompatibilities. Also included are defining systems of measurement, converting from one system to another and calculating phar-

macology problems. (90 Contact Hours)

PTN0021

Drug Classifications

for Pharmacy Technicians 3 credits

This course covers the aseptic techniques, parenteral administration and intravenous admixture systems. A survey of drug classifications is included. Special fee. (90 contact hours)

PTN0041

Pharmacy Technician

Field Experience 9 credits

This course covers clinical hospital training to develop the student's knowledge and skills on the job. Special fee. (270 contact hours)

PTN0049

Retail Store

Field Experience 6 credits

This course covers the clinical field experiences in a retail establishment. Special fee. (180 contact hours)

PTN0910

Advanced Topics

in Pharmacy 2.5 credits

This course focuses on the recent pharmaceutical products in cardiovascular drugs, central nervous system drugs, chemotherapeutic preparations, and parental nutrition therapy. Special fee. (60 contact hours)

Photography

PGY0296

Electronic Workshop 4 credits

This course is designed for the experienced electronic publisher, graphic designer of graphic arts person who wishes to integrate black and white and color photography into their page layouts or paint programs. It will provide the basics of desktop scanning, retouching and color correcting. Special fee. (120 contact hours)

Practical Nursing

PRN0001C

Basic Patient Care 2.5 credits

This course focuses on obtaining basic patient care skills, including vital signs, documentation, activities of daily living, body mechanics, and basic medical terminology. Students will have experiences in the classroom, campus lab, and long-term care facility. Prerequisite: HSC 0003. Special fee. (75 contact hours)

PRN0003C

3 credits

Practical Nursing 1 -

Fundamentals 9 credits

This course assists the practical nursing student to develop fundamental knowledge and technical skills as a basis for nursing care, with emphasis on the role and scope of practical nursing, growth and development, administration of medication, and mental health concepts. Pre/corequisite: PRN 0001C, PRN 0022. Special fee. (270 contact hours)

PRN0022

Body Structure

and Function 2 credits

This course provides fundamental knowledge of the normal body's structure and function. Special emphasis is placed on anatomy and physiology of the body as a whole. Major body organs are discussed in relation to tissue, cells, metabolism, and homeostatic processes. Prerequisites: PRN 0001C. Special fee. (60 contact hours)

PRN0120C

Practical Nursing 4 -

Maternal/Child 5 credits

This course provides the practical nursing student with the basic knowledge and skills to care for the multi-cultural family throughout pregnancy, labor, delivery, and post-partum. The student will be introduced to physiological and psychosocial needs of the child, concepts of wellness and disease, and Erickson's Stages of Development. Prerequisite: PRN 0203C. (150 contact hours)

PRN0202C

Practical Nursing 2 -

Medical/Surgical 12 credits

This course assists the practical nursing student to develop knowledge and skills in the care of patients across the lifespan. Selected medical/surgical conditions related to the body systems will be covered. The student will provide care to patients in acute, subacute, and long-term care settings. Special fee. (360 contact hours)

PRN0203C

Practical Nursing 3 -

Medical/Surgical 7.5 credits

This course introduces the practical nursing student to selected diseases of the brain and spinal cord; peripheral vascular system; gall bladder, liver and pancreas; lungs and kidneys. Students will provide care to stable patients in acute and sub-acute care settings, reinforcing the role and scope of the practical nurse. (225 contact hours)

PRN0933C

Practical Nursing 5 -

Transition to Graduate 4 credits

This course focuses on the transition of the student to graduate, aspects of licensure and employment and career opportunities for the practical nurse. Major emphasis is placed on the role and function of the practical nurse within the organization and as a member of the health care team. Prerequisite: PRN 0120C, 0203C. Special fee. (120 contact hours)

Real Estate

REE0030 Principles & Practices 1

2.1 credits

Principles & Practices 1 is the beginning course for a student wishing to enter the Real Estate business and receive a Real Estate License. This is a survey course that looks into the legal relationship between salesman and client, salesman and customer, and salesman and broker. It is a study of many of the mechanical principles of the real estate business such as deeds, surveys, financing and appraising. Special fee. (63 contact hours)

REE0031

45-Hour Post-Licensure

for Salesman 1.5 credits

A state required course that all newly licensed salespersons must complete within two years of obtaining their initial sales license. This survey course covers financing, appraising, property management, salesmanship, and office management. Special fee. (45 contact hours)

REE0032 Principles &

Practices 2 2.5 credits

A course designed for the beginning Real Estate salesperson with concentration on the important phases of practical day-to-day operations in real estate brokerage. Instruction will include listing procedures, effective advertising sales techniques, financing, appraising, property management, leasing and professional and public relations. Prerequisite: REE 0032 or possession of a valid real estate salesman's license. Special fee. (75 contact hours)

REE0035

Mathematics for

Real Estate 1.5 credits

This course is designed to help the individual become more proficient with basic mathematics as they are used in the real estate business. Topics include a review of basics, percents in real estate, mortgage math, real estate taxes, legal descriptions and area problems, math in real estate appraising and prorating for closing statements. Special fee. (45 contact hours)

REE0045

Real Estate Financing

1.5 credits

This covers methods of financing real estate in fixed rate, variable rate, FHA, VA and graduated mortgage arrangements. Creative financing methods are also discussed. Special fee. (45 contact hours)

REE0060

Certified Appraisal 1 2 credits

This is an introduction to the appraisal process and the different approaches, methods, and techniques used to determine the value of residential property. Special fee. (60 contact hours)

REE0082

Real Estate

License Exam Preparation 1 credit This is a review of the Principles and Practices

1 course. It is intended for the student who has been successful in the final exam of the course, but who wants to review concepts and skills to ensure a better performance on the State of Florida licensing exam. Special fee. (30 contact hours)

REE0181

Registered Appraisal

(AB I) 2.5 credits

This fulfills the first requirement for certification as a residential real estate appraiser in the State of Florida. Frequent case studies and community examples are included. Special fee. (75 contact hours)

REE0183

Certified Appraisal (AB II)

1 credit

This course, together with successful completion of course 1, fulfills requirements for certification as a certified residential appraiser in Florida. It includes analysis of markets, urban growth, statistical methods, and case studies of residential site evaluation. Special fee. (30 contact hours)

REE0184

Certified General

Appraisal Course 3 2 credits

This course, subsequent to successful completion of the two real estate residential appraiser courses, leads to a certification as a certified general appraiser by FREC. Commercial site and evaluation and capitalization techniques are covered. Special fee. (60 contact hours)

REE0272

Mortgage Broker

Exam Preparation 1.5 credits

This course is a review of the law, terminology and mathematical computations that are customarily included in the questions that compose the Florida state licensing exam to become a mortgage broker. A certificate is issued upon successful completion of this course. Special fee. (45 contact hours)

REE0301

Real Estate

Post-Licensing Brokers 2 1 credit

This course is the investment portion (part 2) of the State required Post-Licensing course for Brokers. The objective of the course is to provide the licensee with advanced knowledge of real estate investment and finance. Prerequisite: REE 0801. Special fee. (30 contact hours)

REE0801

Real Estate

Post-Licensing Brokers 1 1 credit

This is the management portion (Part 1) of the State required Post-Licensing course for Real Estate Brokers. The objective is to provide the licensed Brokers with advanced knowledge of the management and operation

of a brokerage office. Special fee. (30 contact hours)

REE0802

Broker Estate Brokers License

Exam Preparation 2.5 credits

The purpose of this course is to provide the licensed real estate salesperson with the fundamental knowledge required by the Florida Real Estate Commission to successfully complete the State License Examination for the Real Estate Brokers. The content includes appraising, finance, investment and much more. Special fee. (75 contact hours)

Risk Management and Insurance

RMI0001

Principles of Insurance 2.5 credits

This course introduces the participants to the nature of risk, the institutions that provide insurance, contracts dealing with the property, liability, life and accident insurance, and government regulations. Special fee. (75 contact hours)

RMI0092

40-Hour Health

Agency License Preparation 1.5 credits

This is a state-required course designed to prepare the student for the 40-hour Health Agent License Exam. Topics covered are related to the selling of health insurance only for a licensed insurance agent. Special fee. (45 contact hours)

RMI0093

100-Hour Customer

Service Representative 3.5 credits

This course is designed to prepare the student for the customer service representative exam. The course covers topics that are general for the selling of insurance. Special fee. (105 contact hours)

RMI0230

Introduction to

Financial Planning

This course is affiliated with the American College of Life Insurance at Bryn Mawr. Topics include assessment of client needs, risk tolerance, effective communication, time value of money, income tax planning, estate and gift planning, and computerization. Special fee. (30 contact hours)

1 credit

RMI0232

Investment Practices 2.5 credits

This course covers the practices involved in investing in stocks and bonds from the short-term and the long-term points of view. Special fee. (75 contact hours)

RMI0234

Investment Vehicles 1 credit

This course is affiliated with the American College of Life Insurance at Bryn Mawr. Topics include the role and scope of investments, security markets, investment strategies, financial statements, common stock analysis, bonds, options, futures, and tax considerations. Special fee. (30 contact hours)

1 credit

WWW.MDC.EDU

RMI0235

Wealth Accumulation

Planning This course covers personal tax principles and planning, investing for tax advantages, various in vestment vehicles, and tactical and

strategic tax planning for wealth accumulation. Special fee. (30 contact hours)

RMI0601

Repeat 2-20 General Lines

Insurance Preparation 8 credits

This is a repeat course designed for students who have not successfully completed the preparation course or passed the end-ofcourse exam for 2-20 General Lines Insurance Preparation. Special fee. (24 contact hours)

RMI0642 Repeat Life

and Health Agent 1.5 credits

This course is offered for students who did not pass the end-of-course exam, but would like to repeat the course for the purpose of passing the exam; after which, the student will qualify to take the State exam. Special fee. (45 contact hours)

Student Life Skills

SLS0200

Increasing Personal

Effectiveness

This course reviews key strategies for personal growth, analyzes personal strengths and weaknesses, identifies the personal goal and motivated the participant towards them, and demonstrate techniques for improving interpersonal relationships. Special fee. (30 contact hours)

SLS0228

Stress Management 1 credit

This course clarifies the concept of stress, helps the participant identify personal strengths and weaknesses in dealing with stress, practices various methods of stress reduction, and helps establish a personal action plan for dealing with stressors. Special fee. (30 contact hours)

SLS0263 **Practical**

Leadership Skills 1 credit

This course employs a small-group approach to improve leadership skills of individuals training for supervisory positions. Students will improve in problem identification and resolution, planning, and effective methods of communication with subordinates and coworkers. Special fee. (30 contact hours)

SLS0306

Career Advancement 1 credit

This course helps the participant identify career goals, analyze personal strengths and weaknesses, prepare a professional resume, and review practical suggestions for job hunting and interviewing. Special fee. (30 contact hours)

SLS0307 **I-CAN Career**

Assessment

This course is a comprehensive testing, advisement and career planning activity that is modeled after the corporate outplacement models utilized by AT&T and BellSouth. It provides a framework for life-long career planning. Special fee. (30 contact hours)

Employability Skills 1 credit

This course teaches the student the skills necessary to conduct a successful job search and to be successful in a job requiring positive human relation skills. Clothing, behavior, personal presentation and interpersonal relations are covered. Special fee. (30 contact hours)

Surveying

Construction Survey 4 credits

This course focuses on the practice of surveying as related to the building and construction industry. This course includes a combination of classroom and practical field problems with the tape, level and transit. Lab time is required. Special fee. (120 contact hours)

SUR0102C

Surveying Techniques 1 4 credits

This course focuses on the practices in surveying and the use of principal types of surveying instruments in horizontal and vertical planes. Problems include the measurements of distance, use of the compass, sextant, transit traverse, and basic mapping. Field and laboratory practice are required. Special fee. (120 contact hours)

Transportation and Traffic Management

Transportation/Geographical

Considerations 1 credit

This course will address the logistics for import and export. Types of pallets, air and sea containers, railroad shipping and inland freight will be discussed. Cargo consolidation for air and sea transport will be addressed as well as types of insurance required. Evaluating service from brokers, forwarders, and steam lines will also be addressed. In addition, geographical concepts will be addressed with the relative location of regions and nations evaluated in terms of specific physical environments, political and economic trends, demography and utilization. Ports of entry and other geographical considerations related to trade will also be examined. Special fee. (30 contact hours)

Travel Industry Management

Travel/Tourism

Career Planning 1 credit

This course is designed for the aspiring travel professional at any educational level. Early planning assists with career development. The goal of the course is to develop a stepby-step plan for your career. Each student will develop an effective resume. Special fee. (30 contact hours)

HMV0031

Introduction to

3 credits the Travel Industry 1

The objective of this is to create an understanding of the domestic travel industry. Manual and computerized reservation procedures for airline reservations. A minimum of 30 hours hands-on in the computer lab is required. Special fee. (90 contact hours)

HMV0033

Transportation and

Geography Concepts 2.5 credits

A study of worldwide nationalities in terms of recreational geography, economic descriptions and environmental conditions. Major attractions of various countries at specific times, including cultural, industrial, historical, and artistic displays are emphasized. Special fee. (75 contact hours)

HMV0034

Fundamentals of

the Travel Industry 2.5 credits

A comprehensive study of the facilities, equipment and resources required in various travel industry operations, such as airlines, car rentals, cruise lines, hotels and travel agencies. Special fee. (75 contact hours)

HMV0602

Sales in

the Travel Agency 2.5 credits

A concentration on the behavioral relationships necessary for the successful closing of a sale. Covers personal appearance, verbal skills, attitudinal factors, telephone competencies, group presentation capabilities, customer service. Special fee. (75 contact hours)

HMV0642

Convention and

Meeting Planning 1 credit

Meeting and convention planners specialize in business conferences. Students will learn the skills necessary to plan from a one-hour conference to a one-week deluxe conference. Course content includes resources, marketing techniques, sales leads, logistics and followup. Special fee. (30 contact hours)

HMV0702

Airline Computer Reservations

Students will demonstrate the proficient use of advanced ticketing and tariff skills. All material and laboratory work will involve system one reservations computer. A hands-on use of the computer terminal (CRT). Special fee. (90 contact hours)

3 credits

HMV0703 Airline Ticketing

Procedures 3 credits

Topics include skills in airline ticketing, domestic and international fare construction. Upon completion, the student will demonstrate the skills necessary to schedule flight itineraries, select appropriate airfares, and issue all the required documents. Special fee. (90 contact hours)

HMV0709 Issues in

Travel Agency Management 2 credits

Issues in Travel Agency Management will help students improve their ability to analyze financial statements, prepare budgets, and manage cash flows. Unit activities will help develop strategies to increase agency profitability and establish priorities at work. Students will gain a better understanding of automation. Special fee. (60 contact hours)

HMV0711

Cruise Line Sales 1 credit

This course addresses the skills necessary to sell and promote cruises at the retail and wholesale level. The student will learn to negotiate with cruise lines, develop marketing plans, and establish a client base. Special fee. (30 contact hours)

HMV0720 Incentive and Specialty Travel

1 credit

Incentive travel is a modern management tool used to motivate salespersons, clients, employees, and management. Travel is the primary reward used by management for achievement. This course teaches the student the skills necessary to identify and successfully apply incentive planning. Special fee. (30 contact hours)

HMV0732

Travel Management

Microcomputer Applications 2 credits

This course is designed to teach managers how to effectively use a personal computer to enhance their business. Introduction to Microcomputers (CGV 0010) or its equivalent is required prior to enrollment in this course. Applications for marketing, accounting and staff training are covered. Special fee. (60 contact hours)

HMV0944

Travel/Tourism Internship 2.5 credits

The focus of this course is practical experience in the fields of Travel/Tourism. Employment can be arranged either by the department or by the student. Paid employment is not required to earn credit. Ten of the 75 hours are spent in the classroom preparing a successful internship. Special fee. (75 contact hours)

HMV0948

Co-op Work

Experience: HMV 1-3 variable credits This is a course designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Cooperative Education Office approval and completion of HMV 0948 Co-Op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. Special fee. (30-90 contact hours)

HMV0950

Communications for

the Travel Professional 2 credits

Communications for the Travel professional will help students develop their writing and speaking skills so that they can effectively and confidently communicate on the job. Special fee. (60 contact hours)

Vocational Preparatory

VPI0111

Vocational Preparatory

Reading 1-6 variable credits

This course is intended for the student who has tested in at a level on the Test for Adult Basic Education (TABE) that requires some work to improve basic reading skills. Individualized work on a computer is prescribed to enable the student to test out at an appropriate level to be successful in a Vocational program. (30-180 contact hours)

VPI0211

Vocational Preparatory

Mathematics 1-6 variable credits

This course is intended for the student who has tested in at a level on the TABE test that requires some work to improve basic math skills. Individualized work in a computer is prescribed to enable the student to test out at an appropriate level to be successful in a Vocational program. (30-180 contact hours)

VPI0311

Vocational Preparatory

English 1-6 variable credits
This course is intended for the student who

Inis course is intended for the student who has tested in at a level on the TABE test that requires some work to improve basic language skills. Individualized work on a computer is prescribed to enable the student to test out at an appropriate level to be successful in a Vocational program. (30-180 contact hours)

Selected Studies

###947

Co-Op Work Experience 2

3 credits

This course is designed to continue training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisites: Cooperative Education Office approval and completion of 0948 Co-Op Work Experience. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. (30-90 contact hours)

###991

Selected Studies 3 credits

Designed to offer an in-depth treatment of special areas under the various occupational categories: it may be varied each term according to faculty and student planning. This offering is numbered 0991, with prefix of the subject area, in the department or discipline of study: Credits only apply to a vocational credit certificate. Prerequisite: Permission of the instructor and department chairperson. (30-150 contact hours)

###999

Diagnostic Medical

Externship 3 credits

This course provides experience in a variety of vocational disciplines. The externship will be provided in an approved establishment within the identified discipline area. May be repeated for credit. (90 contact hours)



Call us Essential ... Call us the College

Board of Trusteps Administration and Faculty

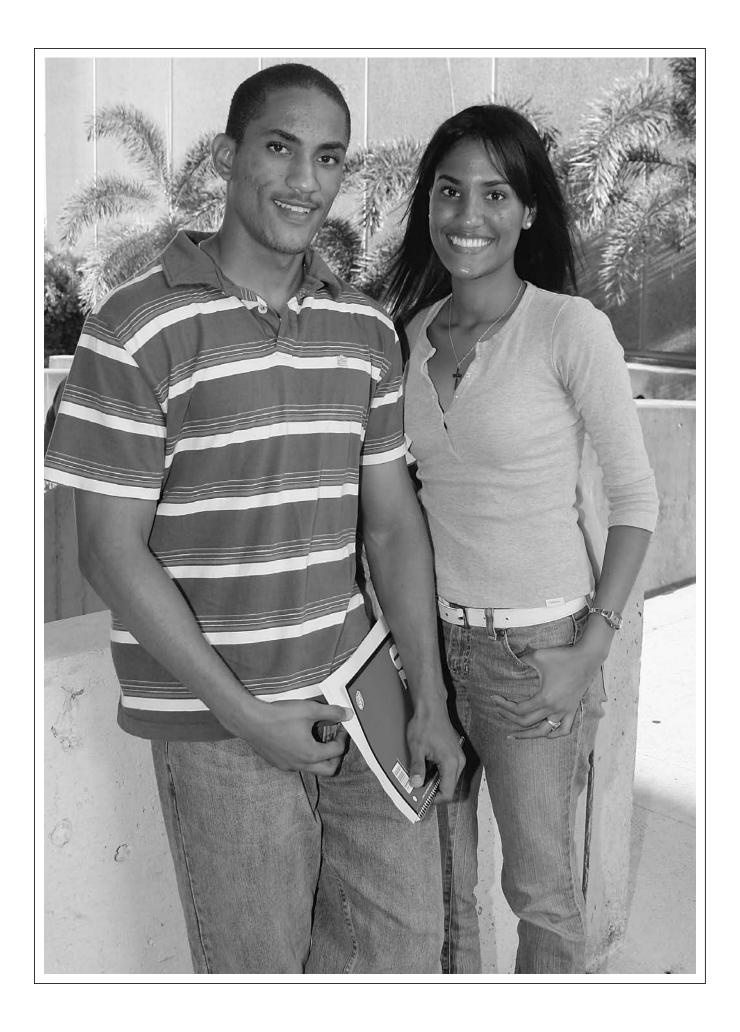












Miami Dade College Board of Trustees

HELEN AGUIRRE FERRÉ (Chair) is the editor of the Opinion Page at Diario Las Americas, an independent Spanishlanguage newspaper founded in 1953 in Miami by her father, Horacio Aguirre. She hosts the television program, Washington Watch in Washington, D.C., and moderates the monthly public affairs program Issues for the South Florida PBS station. She is a political analyst for the Telemundo channel in Miami and a frequent guest on the weekly Spanish-language program Actualidad for TV Martí, which airs throughout Latin America and the Caribbean. In 2007, she became the first community college trustee appointed to the Association of Governing Boards of Universities and Colleges. She was appointed to the Florida Energy Commission by Gov. Jeb Bush, to the Florida Governor's Mansion Commission by Gov. Lawton Chiles, and to the Beacon Council, among others. She has been recognized by Barry University as Outstanding Alumni of the Year 2000, Who's Who Among Hispanic Americans, Hispanic Media 100, the American Cancer Society, Goodwill Industries, the Cuban Rotary Club and the Cuban Women's Club. She has served as a member of the Council on Foreign Relations, the Inter-American Dialogue, the National Association of Hispanic Journalists, on the board of the Nicaraguan American Foundation, and is a Dame of the Knights of Malta. Ferré holds a bachelor's in political science from Barry University and a master's in inter-American studies from the University of Miami.

PETER W. ROULHAC (Vice Chair) is CEO of the Orange Bowl Foundation, seeking to affect positive development of the youth of our community through philanthropy, athletics and academics. Prior to assuming his role at the Orange Bowl Foundation, he was vice president and director of community development for Wachovia National Bank for Miami-Dade and Monroe counties, where he oversaw business development and the bank's Community Reinvestment Program. He also worked extensively in low and moderate income communities to ensure bank products and services were provided. Previously he administered equal opportunity, affirmative action and human resource policies for Southeast Bank and also worked for the U.S. Treasury Department monitoring compliance of banks and savings and loan associations with equal opportunity and affirmative action programs. He is a past chair of the Greater Miami Chamber of Commerce and serves on the Advisory Board of the Local Initiative Support Corporation (LISC), which identifies opportunities to revitalize innercity neighborhoods. As a member of the Fannie Mae Advisory Board, he developed a partnership between Wachovia/ First Union and Fannie Mae to expand housing opportunities for South Florida's diverse population. He holds bachelor's and master's in political science from Fisk University.

ARMANDO J. BUCELO JR. is an attorney in private practice. His firm, the Law Offices of Armando J. Bucelo Jr., has been based in the Coral Gables area since 1982. For more than 15 years, he has served as special counsel to the Code Enforcement Board of the City of Miami, special advisor to the City of Miami, trustee for the Cuban-American National Republican Senatorial Committee, and Committeeman for the Republican Party. He was appointed by President George W. Bush to serve as co-chairman/director of the Securities Investor Protection Corporation, one of the administration's highest appointments made to a Hispanic. He was also appointed as a member of the Board of Directors of the National Housing Development Corporation, one of the most prestigious national institutions dealing with affordable housing. Under former President George Bush, he was the first Hispanic and first Floridian selected as a member of the Board of Directors of the Federal Home Loan Mortgage Corporation (Freddie Mac). He has been involved in a myriad of community activities, including the Board of Directors of the YMCA International, the American Red Cross, as past president of the Downtown Miami Business Association, and as past president of the Cuban-American Bar Association. He has been honored as one of the 100 Most Influential Hispanics on numerous occasions and has received proclamations

from the U.S. House and Senate, the Florida House and Senate, and the cities of Coral Gables, Miami, Hialeah, West Miami and Sweetwater, and Miami-Dade County. Bucelo earned his bachelor's and law degrees from the University of Miami and is an alumnus of Miami Dade College.

MARIELENA A. VILLAMIL is the president, COO and co-founder of the Washington Economics Group (WEG), an economic, financial and educational consulting firm. She has led this wellrespected organization since 1994 and has been an esteemed contributor to the South Florida community. She serves as commissioner for the Third District Court of Appeals, a position appointed by Gov. Jeb Bush in 2001. Prior to joining WEG, she worked for 17 years as a professor and associate dean at Miami Dade College. She has significant experience in governmental relations and in the education and training of multicultural and multilingual workforces. In 2005, Sen. Mel Martinez appointed her to serve on the regional board of the Military Academy Nominations Selection Committee, and she became the first recipient of the Dr. Mario Villarroell International Leadership Award from the American Red Cross of Greater Miami and the Keys, where she is a member of the Board of Directors and chair of the Latin America and Caribbean Leadership Committee. She holds a bachelor's in Spanish and English from St. Mary's Dominican College and a master's in Spanish from Middlebury College.

MIKKI CANTON is a local attorney who contributes to a wide range of civic enterprises. She is a member of the Mercy Hospital Board of Trustees, serving on its Planning and Quality Care Committees. She is also a trustee of the Florida Network of Youth and Family Services and Florida Tax Watch, a long-standing member of the Harvard University John F. Kennedy School of Government Women's Leadership Board, a member of the International Board of the University of Chicago Harris School of Public Policy Studies and is the statewide chair of the Florida Fellows of the American Bar Association. She is a two-time gubernatorial appointee to the Florida Commission

on Ethics. Her accolades include a Salute to Miami's Leaders Award from the Miami Chamber of Commerce, the Distinguished Citizen Award from the City of Coral Gables, the Learned Hand Award from The American Jewish Committee and a Phenomenal Woman Award from Revista Mujer. Canton began her career teaching children with emotional and mental challenges and has also worked as a school psychologist. She holds a law degree from St. Thomas University.

BENJAMIN LEÓN III is president and COO of Leon Medical Centers, a managed health care system offering superior comprehensive services to the residents of Miami-Dade County. Trustee León has served at the helm of the organization since 1996, guiding the delivery of primary care, outpatient services and various specialty services to Medicare members. He began his career as a customer service representative for Clínica Cubana, which his family opened in the 1960s to satisfy the health care needs of South Florida's growing Hispanic population. León serves on the board of the Latin American Chamber of Commerce (CAMACOL) and is involved in numerous philanthropic organizations, such as the American Diabetes Association and the American Cancer Society. He holds a bachelor's in organizational leadership from St. Thomas University.

ROBERT H. FERNÁNDEZ is an attorney in private practice, specializing in the areas of disaster preparedness and recovery; commercial policy and litigation; complex business litigation; bid-protests; government relations; and elections and ethics law. He is the former deputy general counsel for the Executive Office of the Governor, serving as advisor to Gov. Jeb Bush and the state general counsel. Among his many professional activities, Fernández serves on the Board of Governors of the Hispanic National Bar Association and was the past regional president for Florida. He is on the Board of Directors of the Family Resource Center and serves as a member of Florida Supreme Court's Standing Committee on Fairness and Diversity. He is a graduate of Columbia University and New York University School of Law, where he was an editor of the Journal of International Law and Politics.

EDUARDO J. PADRÓN is the president of Miami Dade College. He is nationally respected for his advocacy for underserved populations in higher education, innovative teaching and learning strategies and focus on support for student success. Padrón has received appointments from four American presidents and was part of the White House Commission on Educational Excellence. He serves on many boards, includ-

ing: the Carnegie Foundation for the Advancement of Teaching; the American Council on Education; the American Association of Colleges and Universities; the American Association of Community Colleges; Campus Compact; the League for Innovation; and the Harvard Journal of Hispanic Policy. In addition, he has served on the Governing Board of the Hispanic Association of Colleges and Universities; the Board of Directors of the U.S. Congressional Hispanic Caucus Institute; and on advisory councils for Secs. of State Cyrus Vance and Ed Muskie and Sec. of Education Shirley Hufstedler. Padrón was chair of the Florida Community Colleges Council of Presidents from 1999 to 2000. Several Florida governors have called upon him to serve on important committees, including the Florida Study Commission on Employment Opportunities. Among the many awards bestowed upon him, he was honored by the Association of Community College Trustees as the National CEO of the Year in 2002. He has received the highest orders of distinction from the governments of Spain, France, Mexico and Argentina for his outstanding leadership and record of commitment to educational opportunity and cultural enrichment. He holds a doctorate in economics from the University of Florida and is an alumnus of Miami Dade College.



Helen Aguirre Ferré



Mikki Canton



Peter W. Roulhac



Benjamín León III



Armando J. Bucelo Jr.



Robert H. Fernández



Marielena A. Villamil



Eduardo J. Padrón College President

MUC 2008-10 CATÁLOG

District Administration -Executive

- PADRÓN, EDUARDO J., *Professor, College President, Wolfson.* B.A., Florida Atlantic University; M.A., Ph.D., University of Florida.
- GIBBS, MEREDITH E., *Provost for Operations, Wolf*son. B.A. Rice University; J.D., Columbia University.
- GOONEN, NORMA M., Provost for Academic and Student Affairs, College President's Office, Wolfson. A.A., Miami Dade College; B.A., M.S., Florida International University; Ed.D., University of Florida.
- CASTILLO-FRICK, O. ILIANA, *Vice Provost, Human Resources, Kendall.* B.A., B.S., Florida International University.
- HERLEMAN, KARL, *Vice Provost, Information Technology; Kendall.* B.S., Penn State University; M.S., University of Central Florida.
- KAUFHOLD, GLENN, Executive Director and CEO, MDC Foundation Inc., Wolfson. B.A., Montclair State University.
- LEVERING, EUGENE H., *Vice Provost and CFO, Business Affairs, Kendall.* B.S., Georgia Institute of Technology; M.B.A., Duke University.
- REYNOLDS, CURTIS A., Vice Provost, Facilities Management, Kendall. M.B.A., University of Alabama; B.S.E., M.S.E., University of Alabama-Birmingham.
- RODRIGUEZ, VIVIAN D., *Director of Institutional Initiatives, External Affairs, Wolfson.* B.A., Kent State University; M.A., University of Miami.

District Administration

- ABOHASEN, DESIREE, Senior Systems Analyst, Application Development, Kendall. A.A., Miami Dade College; B.B.A., University of Miami; M.S., Florida International University.
- ABRAMS, NAIROBI, Director of Alumni Relations and Annual Giving, MDC Foundation Inc., Wolfson. B.B.A., Howard University.
- ACOSTA, RENE C., Manager, Information Resource, Computer Operations, Kendall. A.S., Cedar Valley College.
- ALONSO, PEDRO L., Senior Analyst, Computer Services, Kendall. A.A., Miami Dade College; B.S., Florida International University.
- ALVAREZ III, ANTONIO, Senior Network Analyst, Quality Management, Kendall.
- ALVAREZ, LUIS L., Senior Programmer Analyst, Application Development, Kendall.
- AMAYA, MERCEDES, Collegewide Director, Collegewide Financial Aid, Kendall. A.A., Miami Dade College; B.S., Florida International University; M.A., University of Miami.
- ANDREWS, GEORGE F., Chief of Staff, College President's Office, Wolfson. B.B.A., University of Central Florida; M.B.A., University of Miami.
- ARD, LISA C., Administrative Assistant III, Facilities Management, Kendall. A.A., Miami Dade College.
- ARENAS, JORGE A., Senior Programmer Analyst, Computer Services, Kendall. A.A., Miami Dade College.
- BAEZ, ALEXANDER, Director, Registration Services, Financial Aid (InterAmerican), InterAmerican. A.A., Miami Dade College; B.P.A., M.S., Florida International University.
- BARCUS, DAVID M., *Program Leader, Facilities Management, Kendall.* M.A., M.P.A., Texas Christian University.

- BARTELS, PATTI A., *Director, Grants Development, Wolfson.* M.Ed., Florida Atlantic University.
- BASHFORD, JOANNE, Associate Provost for Institutional Effectiveness, Wolfson. B.A., University of Florida; M.Ed., University of Pittsburgh; Ed.D., Florida International University.
- BAUDIN, SALLY S., Assistant Director, Accounts Payable, Kendall. B.S., Fordham University.
- BENITEZ, ARMANDO, Manager, Restricted Accounts, Kendall. B.B.A., St. Thomas University.
- BERGER, RHONDAW., Director of Technology Training, College Training and Development, Kendall. A.A., Miami Dade College; B.S., University of Florida; M.S., Florida International University.
- BETANCOURT, LUIS A., Manager, Federal Work Study, Kendall. B.A., University of Florida.
- BETHEL, LYNN A., Director, Payroll, Kendall.
- BONACOSSA, PIETRO, Development Officer, MDC Foundation Inc., Wolfson. B.A., Auburn University.
- BRANAM, RICHARD E., Maintenance Supervisor, Equip Maintenance, Kendall.
- BRIDGES, CLIVE R., Employee Relations Admin., Division of Human Resources, Kendall. B.A., Morehouse College; M.B.A., University of Miami.
- BRISTOL-CASTRILLON, RAMON S., Assistant Director, Purchasing, Kendall. M.A., Hawaii Pacific University.
- BUITRON, GABRIELA M., Education Specialist, College President's Office, Wolfson. A.A., A.S., Miami Dade College; B.S., Florida International University; M.S., St. Thomas University.
- BURKHALTER, BRENTON A., Senior Systems Analyst, Computer Services, Kendall. M.S., Barry University.
- BURNOTES, SCOTT G., Director of Emergency Preparedness, Office of the Provost for Operations, Wolfson. B.S., Florida State University; M.S., George Washington University.
- BURTON, HANNIBAL N., Manager, Auxiliary Services, Kendall. B.S., Florida A&M University.
- CAMPS, ZERAIDA M., Assistant Director, Finance COA and Security, Kendall. B.S., B.A., Seton Hall University.
- CAMUS, IVAN A., Manager, Restricted Accounts, Kendall. A.A., Miami Dade College; B.S., M.B.A., Florida International University.
- CARABALLO, ERIKA M., Program Leader, Facilities

 Management, Kendall. B.S., Florida International University.
- CHOY, HON W., Senior Systems Analyst, Application Development, Kendall. A.A., Miami Dade College.
- CHU, TIANSHU, Assistant Controller, Restricted Accounts, Kendall. B.Acc., University of Florida; M.A., Florida International University.
- CODINA, YADIRA M., Director, Budget, Kendall. A.A., Miami Dade College; B.A., Florida International University.
- COLLINS, RAYMOND P., Senior Programmer Analyst, Application Development, Kendall. B.S., Massachusetts Institute of Technology, M.S., Florida International University.
- COPELAND, JAMES W., Director, Facilities Management, Kendall. A.A., Indian River Community College; B.A., Warner Southern College.
- COX, JAMES W., *Director, Intercollegiate Athletics, Kendall.* A.A., Miami Dade College; B.A., M.S., St. Thomas University.
- DAPHNIS, JEAN M., *Director, Financial Aid (Wolfson), Wolfson.* B.A., Florida International University.
- DE LAOSA, MARY B., Associate Vice Provost, Division of Human Resources, Kendall. B.B.A., Florida International University; M.B.A., Nova Southeastern University.
- DEHART, MOLLIE F., Director, Academic Programs, Academic Programs, Wolfson. B.A., M.S., Ph.D., Florida State University.

- DEL TERZO, PATRICK, Senior Programmer Analyst, Application Development, Kendall. A.A., A.S., Miami Dade College; B.B.A., Hofstra University; M.S., Florida International University.
- DIAZ, ENRIQUE, Senior Group Manager, Quality Management, Kendall.
- DICKHAUS, WILLIAM A., Associate Vice Provost, Network and Telecommunications Services, Kendall. A.A., Miami Dade College.
- DOMINGUEZ, CARMEN, *Legal Counsel, Legal Af*fairs, Wolfson. B.A., University of Miami; J.D., University of Florida.
- DOTSON, MICHAEL, Director of Advancement Services, MDC Foundation Inc., Wolfson. M.B.A., University of Central Florida.
- DOUGLAS, HOLLIS F., Project Analyst, Network and Telecommunications Services, Kendall. B.B.A., Florida International University.
- DOUGNAC, CARLOS, Associate Vice Provost, Facilities Management, Kendall. B.Arch., University of Miami.
- EASTMENT, KENNETH R., Director, Internal Audit, College President's Office, Wolfson. A.A.S., Middlesex County College; B.S., Rutgers University-New Brunswick.
- EDWARDS, SHELDON, Manager, Equal Opportunity Program, Kendall.
- EISEL, EDWARD G., *Instructor, Project Analyst, Computer Services, Kendall.* B.A., Borromeo College of Ohio; M.Ed., University of Miami.
- EL BAZ, AYMAN A., Facilities Project Manager, Facilities Management, Wolfson. M.A.U.D., University of Colorado-Boulder.
- FARINAS, ANABEL, Membership Manager, Miami International Film Festival, Wolfson. A.A., Miami Dade College; B.B.A., M.S., Florida International University.
- FERGUSON, REGINA B., Associate Campus Director, Financial Aid (Homestead), Homestead. B.B.A., University of Miami.
- FERNANDEZ, EVA, International Education Programs Manager, International Education, Wolfson. B.A., University of Miami; M.Ed., Framingham State College.
- FERRER, ROSA M., Bursar (WC/MC/IAC), Wolfson.
- FIDDES, WILLIAM, Senior Network Analyst, Quality Management, Kendall. A.A., Miami Dade College.
- FIGUEREDO, ILEANA, Manager, Voice Communications, Network and Telecommunications Services, Kendall.
- FORD, GLORIA, Controller, Controllers Office, Kendall. B.S., Florida A&M University.
- FORTUNATO JR., ROBERT J., Senior Network Analyst, Quality Management, Kendall.
- FRANCISCO, MARVIN J., Assistant Vice Provost, Facilities Management, Kendall. A.A., Miami Dade College; B.P.S., Barry University.
- FREEMAN, ELIZABETH G., Corporate Relations Manager, Miami International Film Festival, Wolfson. B.A., Georgetown University.
- GARCIA, ANTONIO, Web Application Developer, Computer Services, Kendall. B.S., Ph.D., Universidad de la Habana.
- GARCIA, HENRY, Group Manager, Application Development, Kendall.
- GARCIA, REBECA M., Director, Student Employment Services, Student Employment Services, Wolfson. B.A., Florida International University.
- GARCIA, RENE, Professor, Director of Enrollment Management, Wolfson. A.A., Miami Dade College; B.A., M.S., Ph.D., University of Miami. The Kiwanis of Little Havana Endowed Teaching Chair 1996-1998.
- GARRISON, CHIMENE N., *Director, Financial Aid* (*North*), *North*. A.A., Miami Dade College; B.A., M.S., St.Thomas University.

- GARZON, GLORIA I., Facilities Project Manager, Facilities Management, Kendall. B.S., Florida International University.
- GOLDSON-RAU, DENISE Y., Director of Development, MDC Foundation Inc., Wolfson. B.A., University of South Florida.
- GOLDSTEIN, SHERI E., Associate Provost, Student Employment Services, Wolfson. B.A., S.U.N.Y. at Binghamton; M.S., Ph.D., University of Miami.
- GOMEZ, CARLOS A., Senior Group Manager, Computer Services, Kendall. B.B.A., Florida International University.
- GOMEZ, JOSE R., Senior Systems Analyst, Application Development, Kendall.
- GONZALEZ, JUDY A., Facilities Project Manager, Facilities Management, Kendall. B.A., Universidad de la Habana.
- GONZALEZ, MARIELA, Treasurer, Cash Management and Treasury, Kendall. B.B.A., Florida International University.
- GOSNELL, GARY W., Assistant Vice Provost, Facilities Management, Kendall. A.A., Miami Dade College; B.B.A., M.P.A., Florida International University.
- GUERRA, GERALDINE, Executive Assistant, College President's Office, Wolfson. B.A., M.S., Florida International University.
- GUERRA, HECTOR M., Senior Programmer Analyst, Application Development, Kendall.
- HALLORAN, MARIA P., Senior Manager, Property Management, North. A.A., Miami Dade College; B.P.S., Barry University.
- HARDAWAY, GROVER L., Director, Conference Day, College Training and Development, Kendall. B.I.T., M.Ed., American Intercontinental University.
- HARPER, HAROLD J., Director, Applications Develop, Information Technology, Kendall. A.A., A.S., Miami Dade College.
- HERNANDEZ, ROBERTO J., Senior Group Manager, Application Development, Kendall. A.A., A.S., Miami Dade College; B.B.A., M.S., Florida International University.
- HERNANDEZ, VICTORIA, Director of Governmental Affairs, College President's Office, Wolfson. B.A., Hampshire College; M.Ed., University of Massachusetts.
- HERRERA, PROSPERO G., Director of Support Services, Facilities Management, North. A.A., Miami Dade College; B.B.A., M.P.A., Florida International University.
- HONG, TERENCE, Senior Group Manager, Application Development, Kendall. A.S., Miami Dade College.
- JACKSON, GREGORY L., Interim Executive Director, Cultural Affairs, Wolfson. B.S., Adelphi University; M.A., University of Massachusetts.
- JENNINGS, DONNA L., Dean, Workforce Education and Development, Wolfson. B.S., M.A., University of South Florida; Ph.D., Vanderbilt University.
- KAISER, DAVID M., Director, Institutional Effectiveness, Wolfson. A.S., Miami Dade College; B.S., M.S., Ph.D., Florida International University.
- KEITH, JOHN H., Manager, Systems Programming, Quality Management, Kendall. A.A., Pensacola Junior College; B.S., University of Miami.
- KNOTT, GREGORY, Associate Vice Provost, Business Affairs, Kendall. A.A., A.S., Miami Dade College; B.B.A., M.A., Florida International University.
- KRUGER, ERIKA, Senior Systems Analyst, Computer Services, Kendall.
- LADD, BETHANY S., Bursar (KC), Kendall. A.A., Miami Dade College; B.A., Florida International University; M.S., Nova Southeastern University.
- LAKE, DIANE, Director, Student Financial Services, Kendall.
- LANDAUER, JAIME, Senior Programmer Analyst, Application Development, Kendall. A.S., Miami Dade College.

- LANGEVIN, MICHAEL R., Senior Group Manager, Information Technology, Kendall. B.S., Florida International University.
- LAURENCEAU, FRITZ L., Senior Systems Programmer, Quality Management, Kendall. B.S., Florida Institute of Technology; M.A., St. John's University.
- LE, HAI P, Group Manager, Computer Services, Kendall. B.S., Florida International University.
- LEON, ANDRES, *Manager, Facilities Management, Kendall.* B.Arch., Universidad de la Habana.
- LEON, GABRIELA R., Administrative Assistant III, Information Technology, Kendall.
- LEVITT, THEODORE W., Assistant to the President, Marketing/Advertising-Office of Communications, Wolfson. B.A., Ohio University; M.A., Duquesne University.
- LEZPONA, PATRICIA, Senior Systems Analyst, Computer Services, Kendall. A.A., Miami Dade College.
- LINDO, LIIY A., *Director, Registration Services, Financial Aid (Medical), Medical Center.* A.A., Miami Dade College; B.P.S., Barry University; M.B.A., Nova Southeastern University.
- LINTON, JENNIFER A., Resource Development Officer, Grants Development, Wolfson. B.S., Denison University; M.S., Ph.D., Michigan State University.
- LLOYD, PAMELA A., Program Manager, Grants Development, Wolfson. B.A., Manhattan College.
- LOPEZ, DIEGO J., Senior Network Analyst, Network and Telecommunications Services, Kendall. B.S., M.S., Florida International University.
- LOPEZ, LUIS P., Systems Programmer, Facilities Management, Kendall. B.S., Universidad de la Habana.
- LOUIMA, GARIOT P., Editorial Director, Marketing and Publications, Office of Communications, Wolfson. B.S.C., University of Miami, M.S., Nova Southeastern University.
- LULL, TERRY S., Assistant Director, Auxiliary Services, Kendall. B.S., Purdue University; M.S., Florida International University.
- MADISON, STEPHEN S., Assistant Professor, Director, Learning Outcomes Assessment, Institutional Effectiveness, Wolfson. B.A., Morehouse College; M.A., Boston University.
- MANNCHEN, MARGARET, Associate Director of Institutional Research Operations, Institutional Effectiveness, Wolfson. B.A., Sam Houston State University.
- MARAIS, EWERHARDUS L., Assistant Director, Application Development, Kendall. M.S., Florida International University.
- MARTINEZ, ROMAN, Group Director, Purchasing, Kendall. B.P.A., Barry University.
- MARTINEZ, WILSON, Administrative Assistant III, MDC Foundation Inc., Wolfson. A.A., Miami Dade College; B.S., Barry University.
- MATTHEWS, HENRY L., Site Manager, Computer Operations, Kendall. A.A., A.S., Miami Dade College.
- MATUS, MARTIN A., Senior Network Analyst, Network and Telecommunications Services, Kendall. A.A., Miami Dade College; B.S., Barry University.
- MCASKILL, KENNETH C., Senior Database Analyst, Quality Management, Kendall. A.A., Miami Dade College.
- MENDIETA, JUAN C., Director of Communications, College President's Office, Wolfson. B.S.C., M.P.A., Florida International University.
- MENENDEZ, ALFREDO, Senior Group Manager, Application Development, Kendall. A.S., Miami Dade College.
- MENKE, PAMELA G., Associate Provost for Academic Affairs, Academic Affairs, Wolfson. M.A., Ph.D., University of North Carolina-Chapel Hill.
- MIRABAL, DAVID, Senior Programmer Analyst, Application Development, Kendall. B.M., University of Miami.

- MITZENMACHER, MARTA J., Group Director, V.P. Business Affairs, Kendall. A.A., Miami Dade College; B.S., Barry University.
- MOORE-GARCIA, BEVERLY A., Associate Provost, Faculty Initiatives, Wolfson. M.Ed., Southwest Texas State University; M.S., Florida International University.
- MORANTES, MARIA, Manager, Application Development, Kendall. B.B.A., Georgia State University.
- MORENO, DAVID R., Program Manager, Network and Telecommunications Services, Wolfson. A.A., Miami Dade College; B.S., Florida International University.
- MUNOZ, IRENE G., Director, Marketing and Publications, Office of Communications, Wolfson.
 B.S., University of Florida; M.S., Florida International University.
- MUNOZ, JAVIER, Director, Telecommunications, Network and Telecommunications Services, Wolfson. A.A., Miami Dade College; B.A., B.S., M.A., Florida International University.
- NARANJO, GILBERTO, Sr. Facilities Fiscal Manager, Restricted Accounts, Kendall. B.A., Rutgers University-Newark.
- NIEVES, JESSENIA T., Analyst, Network and Telecommunications Services, Kendall. M.S., Florida International University.
- NOCK, MARIE S., Associate Professor Sr., College Director, College Training and Development, College Training and Development, Kendall. B.A., University of Miami; M.Ed., Florida Atlantic University.
- NOSSE, JAMES J., Campus Bursar, Bursar's Office, North. B.B.A., University of Toledo.
- NWANKWO, VICTOR, Senior Network Analyst, Computer Services, Kendall. B.S., M.P.A., Texas A&M University.
- OJEDA, MARIA C., Administrative Assistant III, V.P. Business Affairs, Kendall.
- PARENTI, ROBERT, Lead Systems Programmer, Quality Management, Kendall. B.S., Michigan State University.
- PARKERSON, PHILLIP, Executive Director for International Education, International Education, Wolfson. A.B.J., M.A., University of Georgia; Ph.D., University of Florida.
- PAZ, VICTORIA E., Manager, Restricted Accounts, Kendall. B.B.A., Florida International University.
- PENA, JOSEPH, Director, College President's Office, Wolfson. B.A., University of Florida.
- PEREIRA, FELIX L., Senior Programmer Analyst, Application Development, Kendall. A.A., Miami Dade College.
- PEREZ, ANGEL L., *Manager, Division of Human Resources, Kendall.* B.P.S., Metropolitan College of New York.
- PEREZ-MENDEZ, ENEIDA, Senior Project Manager, Facilities Management, Kendall. B.Arch., Universidad de la Habana.
- POLIC, AMY L., Project Analyst, Educational Technology, Kendall. B.S., University of North Carolina-Charlotte.
- POWER, JACQUELINE E., Assistant Registrar, Collegewide Financial Aid, West. A.A., Miami Dade College; B.P.A., M.P.A., Florida International University.
- POWER, RICARDO, MEP Supervisor, Facilities Management, Kendall.
- PULIDO JR., HANIEL, Senior Analyst, Computer Services, Kendall. B.S., Florida International University.
- RACKLEY, LETITIA O., *Manager, Employee Services, Division of Human Resources, Kendall.* A.A., Miami Dade College; B.A., Trinity International University, South Florida Campus.
- RAMOS, RENE, *Director, College Archives, Inter- American.* B.A., Florida International University;
 M.S., Nova Southeastern University.

- RAMSAY, JENNIS B., Administrative Assistant III, Division of Human Resources, Kendall. A.A., Miami Dade College; B.P.A., Barry University.
- RAPPS, ELIZABETH S., *Director, Donor Relations, MDC Foundation Inc., Wolfson.* M.S., Boston
 University.
- RITCHIE, WESLEY C., Director, Collegewide Financial Aid, Kendall. B.A., University of California-Los Angeles; M.B.A., Pepperdine University.
- RODANES SUAREZ, CARLOS E., Associate Campus Director, Financial Aid (Hialeah), Hialeah. B.B.A., M.P.A., Florida International University.
- RODRIGUEZ, KATHLEEN Z., Resource Development Officer, Grants Development, Wolfson. B.S., Cornell University.
- RODRIGUEZ, SILVIO, Director of Test Administration and Program Evaluation, Institutional Effectiveness, Wolfson. B.S., University of Wisconsin-River Falls; M.B.A., Barry University.
- ROMAN, MILAGROS, Manager, Restricted Accounts, Kendall. A.A., B.A., University of Puerto Rico-Bayamon University College.
- ROMAN, ROSARIO, Director, School and College Relations/Articulation, School and College Relations/Articulation, Wolfson. B.A., Universidad Nacional Autonoma de Nicaragua; M.S., University of Miami.
- RUFF, JOY C., Director, Employee Relations/Equal Opportunity Programs/ADA Coordinator, Human Resources, Kendall. A.A., B.A., University of South Florida; Ph.D., Florida International University.
- RUIZ, DAVID J., Director, Risk Management, Kendall. A.B., University of Illinois-Chicago; J.D., University of Toledo.
- RUIZ, JORGE H., Senior Network Analyst, Quality Management, Kendall. A.S., Miami Dade College.
- SALAZAR, CARMEN D., *Director, 2007/08 FL Work Experience Program, Kendall.* B.B.A., M.S.E., Florida International University.
- SALEH, HANADI K., Program Manager, College Training and Development, Wolfson. Ed.D., Nova Southeastern University.
- SANCHEZ, JUAN C., Manager, Network and Telecommunications Services, Kendall. A.A., Miami Dade College; B.S., M.S., Florida International University.
- SANCHEZ-BRETON, ARISTIDES, Senior Programmer Analyst, Computer Services, Kendall.
- SANIN, CARLOS H., Senior Systems Programmer, Computer Services, Kendall. B.S., Kean University; M.S., New Jersey Institute of Technology.
- SANTARUFO, THOMAS F., Maintenance Supervisor North, Equip Maintenance - NC, North.
- SCHWARTZ, PATRICIA R., Director, HRIS/Project Management, HRIS/Project Management, Kendall. A.A., Miami Dade College; B.P.A., M.P.A., Florida International University.
- SCOBLIONKO, ERIC M., Sr. Development Officer, MDC Foundation, Wolfson. B.A., M.S., University of Pennsylvania.
- SEAGA, ANDREW M., College Webmaster, Office of Communications, Wolfson. B.A., M.S., Barry University.
- SEROTA, PAUL N., Advertising and Marketing Manager, Marketing and Publications, Office of Communications, Wolfson. B.S., University of Illinois-Chicago.
- SHARP, GREGORY, Director of Professional Development, College Training and Development, Kendall. B.A., Montclair State University; M.A., Ph.D., University of Illinois-Urbana-Champaign.
- SHEREMETI, ARITA, Program Leader, Restricted Accounts, Kendall. B.S., La Roche College.
- SHERVEY, WILLIAM E., Analyst, Educational Technology, Kendall. M.B.A., M.S., Florida Institute of Technology.
- SMITH, MAGGIE M., *Program Manager, College Training and Development, North.* A.A., Miami Dade College; B.A., St. Thomas University.

- SPENCE, ELAINE, Sr. Compensation and Benefits Analyst, Division of Human Resources, Kendall. B.P.A., Florida International University.
- STAEHLE, SELENE H., Senior Programmer Analyst, Application Development, Kendall. B.A., University of South Florida.
- STARLING, CHRISTOPHER F., Associate Vice Provost, Bustness Services, V.P. Business Affairs, Kendall. B.S., University of Florida; M.A., Florida International University.
- STEELMAN, FRANCINE T., Legal Counsel, Legal Affairs, Wolfson. B.A., J.D., University of Miami.
- STRACHAN, DAVID J., Development Officer, MDC Foundation, Wolfson. B.S., Florida International University.
- SYRACUSE, STELLA B., Manager, Network and Telecommunications Services, Wolfson. B.A., Alfred University.
- TAM, LUISA L., *Director, Research, MDC Foundation Inc., Wolfson.* B.S., Texas Tech University; M.S., University of North Texas.
- TERRY, LINDA M., Senior Group Manager, Application Development, Kendall. B.A., Georgia State University.
- THOMPSON, BETTIE H., Associate Vice Provost, Division of Human Resources, Kendall. B.A., Syracuse University.
- TIJERINO, TORIBIO, Fire Alarm Supervisor, Facilities Management, Kendall.
- TOLEDO, JORGE, Manager, Operations Scheduling, Computer Operations, Kendall.
- ULPIERRE, JORGE, Senior Programmer Analyst, Application Development, Kendall. B.S., Universidad de la Habana.
- VAZQUEZ, FERMIN, Director, Facilities Management, Kendall. A.A., Miami Dade College; B.B.A., Florida International University.
- VINAS, KRISTOPHER L., Senior Programmer Analyst, Computer Services, Kendall. A.A., Miami Dade College.
- VIZOSO, ELISABET, *Director, MDC Call Center, MDC Call Center, Wolfson.* B.A., Florida International University; M.S., Barry University.
- WALKER, JOHN N., Senior Systems Analyst, Application Development, Kendall. B.S., West Virginia University.
- WALKER, TIMOTHY R., Program Manager, Information Technology, Kendall. B.S., Florida International University; M.S., Barry University.
- WEISBLATT, JAYNE, Resource Development Officer, Grants Development, Wolfson. B.A., M.Ed., Miami University.
- WILKES, SUSAN K., Senior Systems Analyst, Application Development, Kendall. A.A., Miami Dade College; B.S., Bucknell University.
- WILLIAMS, BARBARA S., Senior Programmer Analyst, Application Development, Kendall. A.A., Miami Dade College.
- YANG-KRIVAK, WEI, Director, International Partnerships, International Education, Wolfson. M.S., University of Illinois.
- YANNI, GABRIEL E., Associate Vice Provost, Computer Services, Kendall. B.A., University of Central Florida; M.A., Florida State University.
- ZUAZO, RENE, Manager, Infrastructure Project, Network and Telecommunications Services, Wolfson. B.S., Nova Southeastern University.
- ZURIARRAIN, AMAURY J., Assistant to the College President, College President's Office, Wolfson. B.S., Florida International University.

Hialeah Campus Administration - Executive

MILES, CINDY L., *Campus President, Hialeah.* B.A., Ph.D. University of Texas at Austin. BRADLEY, ANA M., *Dean, Academic and Student, Hialeab.* A.A., Miami Dade College; B.A., M.A.,
Ph.D., University of Miami.

Hialeah Campus Administration

- CASTRO, CARIDAD, Department Chairperson, Liberal Chair Arts and Science, Hialeab. A.A., Miami Dade College; B.A., Barry University; J.D., Boston University.
- FORERO, ANDREA M., Director, Administrative Services, Hialeah. A.A., Miami Dade College; B.B.A., Florida International University; M.B.A., Devry University
- GARCIA, MARIA I., *Director, Project V Coach, Hialeah.* M.S., Carlos Albizu University, Miami Campus.
- GILMORE, STEPHEN R., Manager, Student Life Department, Hialeab. B.A., Howard University.
- JOFRE, MARIA W., Associate Professor, Department Chairperson, E.S.L./Foreign Language, Hialeab. A.A., Miami Dade College; B.A., Florida State University; M.A., Bowling Green State University.
- MAGANA, NELSON R., *Director Student Develop*ment and Success, Campus President's Office, Hialeab. A.A., A.S., Miami Dade College; B.S., M.S., Florida International University.
- MONTAS-HUNTER, SONJA S., Assistant Dean, Dean Academic Affairs and Student Support, Hialeab. A.A., La Guardia Community College; B.A., C.U.N.YHunter College; M.A., Radford University.
- PHIPPS, GLENDORA D., Assistant Professor, Director, Library Assistant Director, Hialeab. A.B., University of Georgia; M.A., University of South Florida; M.A., C.U.N.Y-City College.
- PRICE, REINE, *Director, CE Overbead Hialeah, Hialeah.* B.S., Bowling Green State University; M.S.E., University of Central Arkansas; M.A.E., University of Arkansas-Little Rock.

Homestead Campus Administration - Executive

- JACOBS, JEANNE F., Campus President, Homestead. B.A., Fisk University; M.Ed., Alabama A&M University; Ph.D., University of Alabama.
- THOMAS, JEFFERY A., Dean, Academic and Student Affairs, Campus President's Office, Homestead. B.A., Eckerd College; M.A., University of Texas-Austin; Ph.D., Texas Tech University.

Homestead Campus Administration

- ACOSTA, TANIA M., *Director, Campus President's Office, Homestead.* A.A., Miami Dade College; B.P.A., Florida International University; M.B.A., American Intercontinental University.
- ADAMS, EMILY, Administrative Assistant IV, Campus President's Office, Homestead. B.A., M.EA., University of Miami.

- ARCHBOLD, CARLOS A., Program Leader, Title V VESSI Year 2, Homestead. M.S., University of Puerto Rico-Mayaguez; Ph.D., Andrews University.
- CLARK, ADRIANNA D., Program Manager, Small Business Transportation, Homestead. B.A., Florida International University; M.I.B., Nova Southeastern University.
- COLACURTO, MICHAEL, Program Manager, School of Entertainment & Design Technologies, Homestead. B.A., Florida State University.
- COPPOCK JR., EDWARD T., *Manager, Campus Network Services, Homestead.* A.A., Miami Dade College.
- GARCIA-PENDLETON, ROSA M., Director, Library, Homestead. B.A., University of Massachusetts; M.S., Simmons College.
- GARIP, ALBERT, *Program Manager, Audio-Visual, Homestead.* B.A., C.U.N.Y-City College.
- HOSANG, SEAN M., Manager, Campus Network Services, Homestead. A.A., Miami Dade College; B.S., Florida International University.
- HUNT, DWAYNE A., Director, Student Life, Homestead. B.A., Florida Atlantic University; M.A., University of Mississippi.
- KAUFMAN, RANDALL H., Chair, Arts and Sciences, Arts and Science, Homestead. M.A., University of Florida.
- MANN, LEROY A., Director, Campus Network Services, Homestead. A.A., Miami Dade College.
- PEREZ, JESSYCA, *Program Leader, Title V VESSI Year* 2, *Homestead.* B.A., Florida International University; M.S., St. Thomas University.
- ROKOVICH, IVO A., *Director, Testing, Testing, Homestead.* B.S., Florida International University.
- SAUMELL, LINDA, *Director, Title V VESSI Year 2, Homestead.* B.A., Kean University; M.S.Ed.,
 Ph.D., University of Miami.
- SCOTT, MARGARET, *Director, New Student Center, Homestead.* A.A., Miami Dade College; B.L.S., Barry University.
- SMITH, DAVID W., Department Chairperson, Aviation, Homestead. B.A., Trinity College; M.S., Florida International University; Ph.D., Nova Southeastern University.
- TOMOVA, MICHAELA M., Director, Academic Affairs and Student Support, Homestead. B.A., M.A., Sofia University-Saint Kliment Ohridski.
- WATSON, JAMES A., Director, Student Services, New Student Center, Homestead. B.Des., M.Ed., Ph.D., University of Florida.
- YPSILANTI, CHRIS, *Program Manager, Community Education, Homestead.* B.A., Hofstra University; M.A.E., Teachers College, Columbia University; Ed.D., Nova Southeastern University.

InterAmerican Campus Administration - Executive

- CORTES-SUAREZ, GEORGINA, Associate Professor, Campus President, InterAmerican. A.A., Miami Dade College; B.Ed., M.S.Ed., University of Miami; Ed.D., Florida International University.
- PEREZ, LOURDES M., Dean, Student, Student Services, InterAmerican. A.A., Miami Dade College; B.S., M.S., Florida International University.
- TULIKANGAS, CAROL M., Dean, Academic Affairs, InterAmerican. B.A., University of Iowa; M.A., Northern Michigan University; Ed.D., University of Minnesota.

InterAmerican Campus Administration

- ANDERS JR., WALTER C., *Director, Access Services, InterAmerican.* M.S., St. Thomas University.
- BERMUDEZ, ANA CECILIA, *Director, New Student Center, InterAmerican.* B.A., Hope College; M.S., Barry University.
- BIGGS, ELIYN M., Director, Computer Courtyard, InterAmerican. B.S., Central Connecticut State University; M.S., Southern Connecticut State University; Ed.S., Nova Southeastern University.
- BIRD ARIZMENDI, VANESSA M., Department Chairperson, Education, InterAmerican. B.A., University of Puerto Rico; M.S., University of Bridgeport; Ph.D., Florida State University.
- BLANCO, AMARILYS B., *Program Manager, Library Services, InterAmerican*. A.A., Miami Dade College; B.B.A., Florida International University.
- BRAVO, JENNIFER, Director, The Honors College, InterAmerican. A.A., Miami Dade College; B.A., M.S., Florida International University.
- BROWN, JERMAINE I., Department Chairperson, Mathematics, InterAmerican. A.A., B.S., University of South Florida; Ed.S., M.S., Ed.D., Nova Southeastern University.
- CALIXTO, EDWARD, Manager, Network Services, Media Services and Campus Network, Inter-American. B.B.A., University of Miami.
- DELGADO, ANTONIO, Director, Student Life, Inter-American. A.A., B.A., Florida International University; M.Ed., University of Georgia; M.A., Marymount University.
- DOMINICIS, ERICK J., Associate Professor, Director, Library Services, InterAmerican. B.A., Florida International University; M.A., University of South Florida.
- EARLE, PATRICIA L., *Manager, Education, Wolfson.* M.A.T., National-Louis University.
- FLORIT, MARIA VICTORIA, Program Manager, CP-Pathway to Teaching 07/08, InterAmerican. B.Ed., Escuela Normal No. 1-Presidente Roque Saenz Pena; M.S., Florida International University
- HERNANDEZ, ISABEL C., Professor, Campus Chief Information Officer, Learning Resources, InterAmerican. A.A., Miami Dade College; B.M., Florida International University; M.A., University of South Florida. The Steel, Hector and Davis Endowed Teaching Chair 1996-1998.
- HERNANDEZ, JORGE, Program Leader, CP-Career Services, InterAmerican. B.A., Florida International University.
- HERRERA, ALBERTO J., Professor, Department Chairperson, Community Education, Inter-American. B.B.A., B.S., M.A., Kent State University; Ph.D., University of Miami.
- JEAN-CHARLES, CARL A., Administrative Assistant III, Academic Affairs, InterAmerican. A.A., Miami Dade College; B.P.S., Barry University; M.B.A., Nova Southeastern University.
- JOHNSON, STEPHEN R., Department Chairperson, E.S.L/Foreign Languages, InterAmerican. B.A., Jacksonville State University; M.A., University of Alabama.
- JOSEPH, RONY, Coordinator, Pathways to Exc., Pathways to Excellence in Teaching, Kendall. A.B., University of Illinois-Chicago; M.S., DePaul University.
- LORENZO, MANUEL C., Associate Dean, Academic, Academic Affairs, InterAmerican. B.S., M.S., Florida State University; M.P.A., Florida International University.
- MATEO, JOSE, Director, Campus Services, Inter-American.

- MAYMI, MARIA J., Department Chairperson, Education, InterAmerican. M.Ed., University of South Carolina-Columbia.
- MERCADO, DARIO, Director, Media Services, Inter-American. A.A., Miami Dade College; B.S., Florida International University.
- MONTEQUIN, RAQUEL, *Program Manager, Educa*tion, InterAmerican. B.A., Florida International University; M.S., Barry University.
- NEIMAND, SUSAN C., School Director, Education, InterAmerican. M.S., Ed.D., Florida International University.
- PEREZ, MANUEL A., *Director, Campus Network Services, InterAmerican*. A.A., Miami Dade College; B.S., M.S., Florida International University.
- PEREZ, MARIO L., Assistant Dean, Students, Student Services, InterAmerican. B.A., St. Thomas University; M.S., Florida International University.
- RODICIO, LENORE P., Associate Professor, Department Chairperson, Natural and Social Science, InterAmerican. B.S., Barry University; Ph.D., Louisiana State University and A&M.
- ROSS, GORDIA A., *Program Manager, Education, Wolfson.* B.A., Hobart and William Smith Colleges; M.S., Columbia University.
- ROSSIE, CARLOS E., Director, Recruitment, Recruitment, InterAmerican. A.S., Miami Dade College; Ph.D., Nova Southeastern University.
- STOKES, BRIAN A., Director, Administrative Support Services, Administrative Services, InterAmerican. B.A., S.U.N.Y. College at Geneseo; M.P.P.M., University of Southern Maine.
- THOMAS, SUSAN F., Director, Advisement Services, Academic Advisement, InterAmerican. A.A., Central Florida Community College; B.A., University of Central Florida; M.A., University of South Florida.
- VALME, JOELLE J., Program Manager, Education Opportunity Centers Program, InterAmerican. B.A., C.U.N.YHunter College; M.I.A., Columbia University.
- VASQUEZ, HERNANDO J., Services Supervisor III, Security Services, InterAmerican. B.B.A., M.B.A., Carlos Albizu University, Miami Campus.
- VILLALOBOS TAVAREZ, SOFIA I., Director, Testing, InterAmerican. B.A., Wright State University; M.S., University of Rhode Island.
- WINTERS, GLORY A., Assistant To Campus President, Campus President's Office, InterAmerican. A.A., Miami Dade College; B.A., St. Thomas University; M.S., Springfield College.

Kendall Campus Administration - Executive

- GRAY, GREGORY W., *Campus President, Kendall.*B.S.Ed., Indiana University of Pennsylvania;
 M.Ed., University of Pittsburgh; Ed.D., Penn State
 University.
- BAEZ, GLORIA V., *Dean of Administration, Kendall.* B.A., J.D., Florida State University.
- FERRER, ARMANDO J., Associate Professor Sr., Dean, Student Services, Kendall. A.A., Miami Dade College; M.S., Florida International University; B.A., Ph.D., University of Miami.
- JUNCO-IVERN, MARTA, Interim Dean, Academic Affairs, Kendall. B.S., Pontifical Catholic University of Puerto Rico; M.A., New York University.

Kendall Campus Administration

ADKINS, JOHN H., Department Chairperson, Arts and Philosophy, Kendall. B.F.A., Northern Illinois University; M.F.A., Memphis College of Art.

- ADOGHE, LORETTA O., *Director, The Honors College, Kendall.* M.S., Imperial College of Science Technology and Medicine.
- ALBURY, VANYA B., Associate Professor Sr., Director, Student Development and Retention, Kendall. B.S., M.S., Florida State University.
- ALFONSO, BARBARA, Department Chairperson, Community Education, North. B.A., Leeds Polytechnic; M.S., Florida International University.
- ARCHIE, SHERLYN N., *Director, Corporate Training, Community Education, Kendall.* B.A., Trinity
 International University, South Florida Campus;
 M.S.Ed., Florida Atlantic University.
- BARRIENTOS, WALTER R., Associate Professor, Department Chairperson, Mathematics, Kendall. A.A., Miami Dade College; B.S., M.S., University of Miami.
- BELTRAN, DULCE M., Collegewide Director, Collegewide Registration Services, Kendall. A.A., Miami Dade College; B.A., B.B.A., M.B.A., Florida International University.
- BERREONDO, JUDITH, *Director, Campus Network Services, Kendall.* A.A., A.S., Miami Dade College; B.B.A., Florida International University.
- BLANCO, JOSE M., Associate Professor Sr., Department Chairperson, English, Kendall. B.A., Florida International University; M.A., Southern Illinois University-Carbondale.
- BRADLEY, TENECIA D., Assistant Dean, Students, Student Services, Kendall. B.A., Bethune Cookman College; M.B.A., University of Miami.
- BRANDON, RODESTER, *Department Chairperson*, *Music, Kendall.* B.M., University of Miami; M.M., University of Michigan-Ann Arbor.
- CHANCE, RICHARD A., Campus Chief Information Officer, Learning Resources, Kendall. B.B.A., M.B.A., Florida International University.
- CHIRINO, CONCHA, Administrative Assistant III, Academic Affairs, Kendall. B.L.S.T., Barry University: B.A., Excelsior College.
- CLARK, ADRIANNA D., Program Manager, Small Business Transportation, Homestead. B.A., Florida International University; M.I.B., Nova Southeastern University.
- COOPER, NORA L., Director, Admissions and Registration, Kendall. B.A., M.S.C.J., Florida International University.
- CREARY, FERNE A., Director, Collegewide Registration Services, Kendall. B.A., C.U.N.Y.Hunter College.
- CRICHLOW, YVETTE FAYE, Director, CE Overbead-West, West. A.A., Miami Dade College; B.B.A., M.S., Florida International University.
- CRUZ,ANA M., Professor, Department Chairperson, Business, Wolfson. A.A., Miami Dade College; B.B.A., Florida International University; M.B.A., St.Thomas University; D.B.A., Nova Southeastern University. The Southeast Banking Corporation Foundation Endowed Teaching Chair 1998-2000. The Wolfson Senior Foundation Endowed Teaching Chair 2002-2004.
- DE ARAZOZA, ELIZABETH T., Microcomputer Manager, Community Education, Kendall. A.A., Miami Dade College; B.S., Florida International University.
- DE ARMAS, MARIA R., *Director, Student Employ*ment and Career Services, Kendall. A.A., Miami Dade College; B.A., M.A., University of Florida; M.S., Carlos Albizu University, Miami Campus.
- DOW, SUSAN A., Director, Adult Education, Community Education, Kendall. B.A., Lake Eric College; M.A., New York University.
- ETTER, STEPHANIE J., School Director, Business and Computer Information Systems, Kendall. B.A., California University of Pennsylvania; M.S., Carlow College; D.S., Robert Morris College.
- FANO, ESTHER S., Director, Hospitality Management Program-W/C, Wolfson. A.A., Miami Dade College; B.A., M.S., Florida International University.

- FIGUEROA, IVAN E, Associate Professor Sr., Department Chairperson, Business, Kendall. B.L.S., M.B.A., Barry University The Elpidio Nunez/Northwestern Meats Endowed Teaching Chair 1996-1998. The Charles and Carrie Mastronardi Endowed Teaching Chair 1999-2001.
- FIORENZA, ANTHONY F., *Director, Student Life, Kendall.* B.S., Florida International University; M.S., Nova Southeastern University.
- GARAYTA, CHERYLA., Program Manager, Extended Studies, North. B.A., University of Florida; M.L.S., University of Oklahoma-Norman.
- GARCIA, ALEX J., Manager, Campus Network Services, Kendall. A.S., Miami Dade College; B.P.S., Barry University.
- GARCIA, JUDITH, Associate Professor Sr., Department Chairperson, E.S.L/Foreign Languages, Kendall. B.A., University of the Pacific; M.A., University of California-Davis. The Dr. Robert H. McCabe Endowed Teaching Chair 1998-2000.
- GATHERCOLE, GEOFFREY, School Director, Community Education, Kendall. M.A., M.Phil., University of Kansas.
- GIOL, FLORIS, *Program Manager, International Student Services, Kendall.* B.A., Florida International University.
- GIORGI, DIANA S., *Program Manager, Recruitment, Kendall.* B.S., M.S., Florida State University.
- GONZALEZ, SOL L., Director, New Student Center, Kendall. B.S., Southern Adventist University; M.S., Barry University.
- HERRERA, ALBERTO J., Professor, Department Chairperson, Community Education, Inter-American. B.B.A., B.S., M.A., Kent State University; Ph.D., University of Miami.
- HORTON, CORAL L., *Program Manager, Commu*nity Education, Kendall. B.A., S.U.N.Y. College at Cortland; M.S., Penn State University; Ed.D., Florida International University.
- IGLESIAS, ESTRELLA M., Interim, Associate Dean, Arts and Letters, Kendall. B.A., Barry University; M.L.S., Louisiana State University.
- IRVING JR., MERRILL L., Department Chairperson, Community Education, Wolfson. B.A., M.P.A., West Virginia University; Ed.D., University of Southern California.
- JEAN-BART, RULX, Assistant Professor, Director, Admissions and Registration, Wolfson. M.S.W., University of Connecticut.
- JONES, BILLY P., Assistant Professor, Department Chairperson, College Prep, Kendall. B.A., M.S., Florida International University; Ph.D., Barry University
- JOSEPH, RONY, Coordinator, Pathways to Excellence, Pathways to Excellence in Teaching, Kendall. A.B., University of Illinois-Chicago; M.S., DePaul University.
- KREITNER, WILLIAM J., Associate Professor, Department Chairperson, School of Entertainment and Design Technologies, Kendall. B.S., University of Maryland; M.M., University of Miami.
- LAING, THEODORA, Department Chairperson, Business, North. A.A., Mercer County Community College; B.A., Rutgers University; M.A., Rider University.
- LIMA-SUAREZ, ENID M., *Manager, Community Education, Kendall.* A.A., Miami Dade College; B.A., M.S., Florida International University.
- LOTKER, DAVID, *Program Manager, Community Education, Kendall.* B.A., S.U.N.Y. at Stony Brook; M.B.A., University of Miami.
- LOZANO, JOSE M., Department Chairperson, School of Architecture and Interior Design, Kendall. M.Arch., Kent State University.
- MEDINA, ISABEL, *Department Chairperson, Community Education, Kendall.* B.A., Bellarmine College; M.Ed., University of Louisville.
- MEZA, JUAN C., *Director, Testing, Kendall.* B.S., B.S.E., M.S., Florida International University.

- MILLER, JEFFERSON K., Program Leader, Engineering, Kendall. A.A., Miami Dade College; B.S., Florida International University.
- MILLS, MARK R., Services Supervisor III, Campus Services, Kendall. B.S., Nova Southeastern University.
- MORALES, JEFFREY J., Manager, Campus Network Services, Kendall. A.A., Miami Dade College.
- PARRONDO, ROBERT A., *Manager, Media Services, Kendall.* B.EA., Miami International University of Art and Design.
- PENA, DAVID S., Assistant Director, Library, Kendall. B.A., Florida Atlantic University; M.A., University of South Florida; M.A., Ph.D., Florida State University.
- PITTMAN, FLOYD E., Assistant Professor, Department Chairperson, Computer Information Systems, Kendall. A.A., Miami Dade College; B.S., M.S., Barry University.
- PRICE, REINE, *Director, CE Overbead Hialeab, Hialeab.* B.S., Bowling Green State University; M.S.E., University of Central Arkansas; M.A.E., University of Arkansas-Little Rock.
- RADBILL, MARITZA S., *Program Manager, Community Education, Wolfson.* B.S., New York University; M.S., Florida International University.
- REY-SEARA, MAIRA, Program Manager, Community Education, Kendall. B.A., Rutgers University.
- RIOS, THANIA, *Instructor, Department Chairperson, Community Education, Kendall.* B.B.A., University of Miami; M.A., Florida International University.
- RODRIGUEZ, JAVIER J., *Director, Media Services, Media Services, Kendall.* B.S., Florida International University.
- RODRIGUEZ, JOSE A., Manager, Student Development and Retention, Kendall. B.A., Florida International University; M.S., St. Thomas University.
- ROSELL, MAGDALENA S., Program Leader, Biology, Health and Wellness, Kendall. A.A., Miami Dade College; B.S., M.S., Florida International University.
- SABELIA, JANICE C., *Program Manager, Access Services, Kendall.* B.A., University of Pittsburgh-Johnstown; M.A., St. Thomas University.
- SALINAS, JORGE E., Professor, Department Chairperson, Chemistry/Physics, Kendall. B.S., University of Hamburg; M.S., Florida Atlantic University.
- SARDINAS, EVELIO, Manager, Campus Network Services, Kendall. A.A., A.S., Miami Dade College.
- SHAPERO, LAURIE, *Director, Community Education, Kendall.* B.A., S.U.N.Y. at Buffalo; M.S., Florida International University.
- SMITH, ELIZABETH A., *Program Manager, Access Services, Kendall.* B.A., University of Florida; M.S., Florida International University.
- SMITH, SHONNDA, *Program Manager, Extended Studies, North.* B.A., M.A., California State University-Long Beach.
- SMITH-PETHYBRIDGE, VALORIE A., Sign Language Interpreter III, Access Services, Kendall. B.S., S.U.N.Y. College at Buffalo; M.S., Canisius College
- THOMAS, EDWARD L., Department Chairperson, Social Science, Kendall. B.B.A., M.Ed., Mississippi State University; Ph.D., Auburn University.
- VASSILIOU, JOHN, *Director, Learning Resources, Kendall.* A.A., Miami Dade College; B.S., Excelsior College; M.S., St.Thomas University.
- VENEZUELA, EFRAIN J., *Program Manager, Extended Studies*, *North.* B.S., S.U.N.Y. at Stony Brook; M.S., Middle Tennessee State University; Ed.D., Nova Southeastern University.
- VIERA, ALEJANDRO, Department Chairperson, Biology, Health and Wellness, Kendall. B.S., Spring Hill College; M.S., Seton Hall University; Ph.D., University of Medicine and Dentistry of New Jersey.

- VILLORO, GONZALO V., Manager, Media Services, Kendall. B.F.A., M.F.A., Miami International University of Art and Design.
- WILHELM, GEORGE E., *Chief, Public Safety, Kendall.* A.A., Miami Dade College; B.S., M.S., Florida International University.
- WILSON, DANIA, Administrative Assistant IV, Campus President's Office, Kendall. B.A., Florida International University; M.S., St. Thomas University.
- WOOD, TINA L., Director, Facilities Management, Kendall. A.A., Miami Dade College; B.S., Barry University.
- YPSILANTI, CHRIS, Program Manager, Community Education, Homestead. B.A., Hofstra University; M.A.E., Teachers College, Columbia University; Ed.D., Nova Southeastern University.

Medical Center Campus Administration - Executive

- KAPLAN-JEDREY, ANITA S., Campus President, Medical Center. B.A., Northeastern University; M.A.E., Boston State College; Ed.D., University of Massachusetts.
- MILLER, CAROL J., Interim Dean, Academic Affairs, Medical Center. A.A, A.S., Miami Dade College; B.S., M.S., Florida International University; Ed.D., University of Miami. The Northern Trust Branch Endowed Teaching Chair 1998-2000.
- PUMARIEGA, MADELINE M., Dean, Student and Administrative Services, Medical Center. B.A., St. Thomas University; M.Ed., Florida Atlantic University.

Medical Center Campus Administration

- ABELLA, ELISA, Assistant Professor, Director, Library Administration, Medical Center M.B.A., St. Thomas University; M.S., Florida State University.
- ADAMS, CYNTHIA D., School Director, Allied Health, Medical Center. M.A., Eastern Michigan University; B.S., Ed.D., Wayne State University.
- BAKER, PATRICIA L., Administrative Assistant III, Academic Affairs, Medical Center A.A., A.S., Miami Dade College; B.P.A., M.S., Florida International University.
- BENT, HUBERT L., Services Supervisor III, Security Services, Medical Center. A.A., Miami Dade College; B.S., Florida International University.
- BLACK-ARIAS, MAXINEE M., Chairperson, School of Nursing, Nursing, Medical Center. B.S., M.S., Mercy College.
- BROWN, PHILIP R., Director, Media Services, Video and Graphics Production, Medical Center. B.B.A., Florida International University.
- CORK, CINDY M., Clinical Supervisor, Vision Care, Medical Center. B.S., Florida International University; O.D., Nova Southeastern University.
- DE LA TORRE, ROSA, Coordinator, Campus Contracts, Campus President's Office, Medical Center. M.S., McGill University; B.S., D.S., Universidad de la Habana.
- DOCUMET, PAOLA F., *Director, New Student Center, Medical Center.* B.S., University of Florida; M.S., West Chester University of Pennsylvania.

- ECHAZABAL, ELOISA M., Administrative Assistant IV, Campus President's Office, Medical Center. B.A., Florida International University; M.B.A., Seattle University.
- EDGINGTON, DANIELT., Director, Campus Network Services, Computer Management, Medical Center. A.A., Miami Dade College.
- EDWARDS, RAMONA L., Administrative Assistant III, Student and Administrative Services, Medical Center A.A., Miami Dade College; B.S., M.B.A., University of Phoenix.
- EVANS, JAMES E., *Program Manager, CP-Student Services CTE Students 07/08, Medical Center.*B.P.A., Florida International University; L.L.M., St. Thomas University.
- GUTIERREZ, PETE A., Associate Professor, Director, Physician Assistant, Medical Center. A.A., Okaloosa-Walton Community College; B.S., Florida International University; B.H.S., M.M.S., Nova Southeastern University; M.D., Universidad Central del Este.
- HAHN, LORRAINE M., *Director, Student and Administrative Services, Medical Center.* A.A., Miami Dade College; B.A., Florida International University; M.S., Barry University.
- HENDRIX, BETTY J., Director, Campus Services, Medical Center.
- HERNANDEZ, MARINA R., *Director, Student and Administrative Services, Medical Center.* A.S., Miami Dade College; B.A., M.S., Florida International University.
- HOLNESS, SHARON D., Interim, Director Career and Access, Access Services, Medical Center.
- HUDSON-MANTEIGA, SUSAN, Associate Professor, Clinical Supervisor, Dental Hygiene, Medical Center. B.S., University of Rhode Island; D.M.D., Tufts University.
- LEMONS, DIXIE C., Director, Student Success Center, Computer Laboratory, Medical Center. A.S., Miami Dade College; B.P.S., Barry University.
- LEVINE, ELIZABETH A., Assistant Professor, Department Chairperson, Nursing, Medical Center. B.S.N., M.S.N., Barry University.
- MANASKIE, SUSAN F., *Director, Test Banking, Medi*cal Center. B.A., Adelphi University; M.S., Southern Connecticut State University.
- MATHIEU, MARY N., Manager, Network Services, Computer Management, Medical Center.
- MENA, JOSUE G., Manager, Learning Resources, Medical Center. A.S., Miami Dade College.
- NESTOR, MARK, Campus Chief Inform. Officer, Learning Resources, Medical Center. B.S., Kent State University; M.S., Pace University-New York; Ed.D., University of Delaware.
- PRENTISS, RICHARD, Professor, Department Chairperson, Emergency Medical Services, Medical Center. A.A., A.S., Miami Dade College; B.S., Florida International University; M.H.M., St. Thomas University.
- PRYOR, LESSIE G., Professor, School Director, Nursing, Medical Center. B.S.N., Florida A. and M. University; M.S.N., Barry University; M.S., Florida International University. The Joan K. Stout, R.N. Endowed Teaching Chair 1995-1997.
- RANSONE, JAMES C., Department Chairperson, Nursing, Medical Center. A.A., A.S., Miami Dade College; M.S.N., Barry University.
- REDMAN, ERICA L., *Director, Recruitment, Student and Administrative Services, Medical Center.*B.S., Florida A. and M. University; M.S., Florida International University.
- SHANNON, DEBRA A., Department Chairperson, Academic Support Health Science/Study, Medical Center A.A., Miami Dade College; B.A., Trinity International University, South Florida Campus; M.S., Barry University; Ed.D., Florida International University.
- SOLOMON, JOHN H., Department Chairperson, Allied Health, Medical Center. B.S., Howard University; M.S., George Washington University.

TOLEDO, IVAN, Assistant Director, Library Administration, Medical Center. B.S., M.S., Florida State University.

New World School of the Arts Administration - Executive

- QUIROGA, MERCEDES A., *Provost and CEO, NWSA.* B.A., University of Florida; M.A., Ph.D., University of Miami.
- BAILEY, PATRICE M., Associate Professor Sr., NWSA Dean, Fine and Applied-Art-Theatre, NWSA. M.F.A., Florida State University; B.S., M.A., Indiana State University.
- CUESTA, MAGGY, Associate Professor Sr., Dean, Visual Arts, Fine and Applied-Visual Arts, NWSA.

 B.F.A., Texas Tech University; M.F.A., California Institute of the Arts.
- HODGSON, JEFFREY S., Associate Professor, NWSA Dean, Fine and Applied-Art-Music, NWSA. B.M., University of Hartford; M.M., University of Florida; D.M.A., University of Miami.
- LEWIS, DANIEL, NWSA Dean, Fine and Applied-Art-Dance, NWSA. D.P., The Juilliard School.

New World School of the Arts Administration

- FIDALGO, RITA M., Director, Administrative Serv., NWSA Administration, NWSA. A.A., Miami Dade College; B.Acc., M.S.T.X., Florida International University
- FLORES, MARIA M., Director, Communication and Marketing, NWSA Administration, NWSA. B.S., DePaul University.
- MONZIN, DENIS A., *Program Manager, NWSA In*formation Technology, NWSA. B.B.A., Florida International University.
- WERNER, LOURDES, *Director, NWSA Student Af*fairs, NWSA. A.A., Miami Dade College; B.B.A., M.S., Florida International University.

North Campus Administration -Executive

- VICENTE, JOSE A., Professor, Campus President, North. B.A., St. Thomas University; M.S., Ed.D., Nova Southeastern University.
- HARRISON, MALOU C., *Dean, Student Services*, *North.* B.S., S.U.N.Y. College at Buffalo; M.S., Florida International University.
- HOFFMAN, HARRY, Professor, Interim, Dean, Academic Affairs, North. B.B.A., University of Miami; M.B.A., New York University.
- MATEO, MARIA C., *Dean, Administrative, North.*A.A., A.S., Miami Dade College; B.S., Barry University; M.S., Nova Southeastern University.

North Campus Administration

ADEYIGA, VALDA J., Associate Professor, Assistant Director, Library, North. B.A., University of West Indies; M.A., University of South Florida.

- ALFONSO, BARBARA, Department Chairperson, Community Education, North. B.A., Leeds Polytechnic; M.S., Florida International University.
- ANZALOTTA, JAIME M., *Director, Student Life, Student Life, North.* B.S.W., M.S.W., Florida International University.
- AUFENANGER, SHARYN J., Manager, School of Justice, North. M.A., George Washington University.
- BARCO, MANOLO M., Program Manager, Student Services. North.
- BELMONT, HEATHER J., Department Chairperson, Biology, Health and Wellness, North. B.A., Ithaca College; Ph.D., University of Miami.
- BOULOS, MICHAEL M., Instructor, Department Chairperson, Chemistry/Physics/Earth Science, North. B.S., M.S., Florida Atlantic University.
- BUCHER, CARMEN A., Director, Computer Courtyard, Learning Resources, North. A.A., Miami Dade College; B.A., Florida International University; M.S., Nova Southeastern University.
- BURRUS, EDWARD C., Associate Professor Sr., Director, The Honors College, North. B.A., Michigan State University; M.S., Long Island University; D.A., University of Miami.
- BURTON, VERONE R., *Program Leader, Fire and Environmental Science, North.* A.S., Miami Dade College; B.S., Barry University; M.P.A., Nova Southeastern University.
- COLACURTO, MICHAEL, Program Manager, School of Entertainment and Design Technologies, Homestead. B.A., Florida State University.
- COLASTIN VIDAL, GENEVIEVE, Manager, Recruitment, North.
- COLLADA, MARIA T., *Manager, New Student Center, North.* A.A., A.S., Miami Dade College; B.P.A., Florida International University.
- COVERT, RALPH A., *Professor, Department Chairperson, Funeral Service Education, North.* B.S., Southern Illinois University-Carbondale; Ed.S., M.S., Nova Southeastern University.
- COX, DARRYL, Manager, Campus Network Services, North.
- DALEY, CARLTON L., Director, Trio Student Support Services Program, North. B.A., University of West Indies; M.A., Florida International University.
- DELGADO, JESSICA, Administrative Assistant IV, Campus President's Office, North. B.A., M.S., Florida International University.
- EDWARDS, PAUL A., Associate Professor, Director, Access Services, North. B.A., University of West
- FERNANDEZ DE CUETO, JULIO, Program Manager, School of Justice, North. B.A., Florida International University.
- FROSS, SHAWNEE L., Program Manager, School of Justice, North.
- FULLANA, YAREMIS P., Administrative Assistant III, Dean of Administration, North. A.A., Miami Dade College; B.A., Florida International University.
- GABB, GEORGE M., Department Chairperson, Computer Information Systems, North. A.A., Broward Community College; B.S., M.S., J.D., Nova Southeastern University.
- GARAYTA, CHERYLA., Program Manager, Extended Studies, North. B.A., University of Florida; M.L.S., University of Oklahoma-Norman.
- GEORGES, WILSON, Services Supervisor III, Campus Services, North.
- GONZALEZ, LEBSICA D., *Program Manager, School of Justice, North.* B.S., University of Florida; M.A., Louisiana Tech University.
- GOODMAN, DEBBIE J., Department Chairperson, School of Justice, North. B.S., Florida State University; M.S., Florida International University.

- GORDON, BARRY M., School Director, School of Entertainment and Design Technologies, North.
 B.A., M.F.A., University of California-Los Angeles.
- HALLORAN, THOMAS M., Associate Professor, Manager, One Stop Center, New Student Center, North. Ed.S., Florida Atlantic University; B.A., M.A., Ph.L., St. Louis University.
- HANUS-ZANK, CATHERINE S., Professor, Interim, Dept Chairperson, E.A.P./Foreign Languages, North. B.A., Mundelein College; M.A., University of Illinois. The Bell South Endowed Teaching Chair in Communications 1999-2001.
- HARRIS, PATTI K., Department Chairperson, Social Science, North. B.A., M.H.R., University of Oklahoma-Norman.
- HOMER, THERESE, Services Supervisor III, Campus Services, North. B.S., Tuskegee University; M.S., Georgia State University.
- HOOD, THOMAS S., Director, Criminal Justice Training, School of Justice, North. A.A., A.S., Miami Dade College; B.A., St. Thomas University.
- JERATH, SANJAY, Director, Network Services, Campus Network Services, North. B.S., Central Connecticut State University; M.S., Rensselaer Polytechnic Institute.
- KARANTSALIS, THEODORE D., Assistant Director, Library Outreach, North. B.S., Excelsior College; M.A., University of Miami.
- KREITNER, WILLIAM J., Associate Professor, Department Chairperson, School of Entertainment and Design Technologies, Kendall. B.S., University of Maryland; M.M., University of Miami.
- KWAK, ANN, Program Manager, School of Justice, North. B.A., University of Virginia; M.A., Ph.D., Central Michigan University.
- LACLAIR, LARRY R., Program Manager, Security, School of Justice, North. B.S., Michigan State University.
- LAING, THEODORA, Department Chairperson, Business, North. A.A., Mercer County Community College; B.A., Rutgers University; M.A., Rider University
- LEON, GLORIA, Assistant Professor, Interim Associate Dean, Academic, Mathematics, North. B.A., Regis College; Ed.S., M.S., Nova Southeastern University.
- LUGO, ELMO R., *Director, Media Services, North.* B.S., Florida International University.
- LYNCH, ROBERT T., Program Manager, School of Justice, North. A.S., Miami Dade College.
- MARIN, ARMANDO, Network Services Manager, Campus Network Services, North. A.A., Miami Dade College.
- MARTINEZ, SANDRA M., *Director, Academic Advisement, North.* B.S., Florida International University; M.S., Nova Southeastern University.
- MASON, MICHAEL E., *Director, Student Services, Entrepreneurial Education Center, North.* B.A., Olivet College; M.S., Barry University.
- MAXWELL, NANCY K., Director, Library, North. M.A., Barry University; A.B., A.M., University of Missouri-Columbia.
- MCCANN, MICHAEL, Fire Science Program Manager, Fire and Environmental Science, North.

 A.S., Miami Dade College; A.S., Nassau Community College.
- MCPHEE, ALLEN L., Associate Professor Sr., Department Chairperson, Arts and Philosophy, North.
 A.S., Community College of the Air Force; B.A.,
 University of California-Davis; M.A., Stanford
 University.
- MOORE, RHONDA L., *Program Manager, Social Sci-Ctr Early Care, North.* B.A., Rutgers University; M.Ed., Virginia Commonwealth University.
- PAUL, DAVID, *Director, Title VBiosciences Cooperative, North.* B.A., S.U.N.Y. College at Fredonia; Ed.M., S.U.N.Y. at Buffalo.

- PAVONE, KARINA, Associate Director, School of Justice, North. B.A., Florida International University; M.S., Carlos Albizu University, Miami Campus.
- PEAT, JOSETT, Associate Professor Sr., Department Chairperson, English and Communication, North. B.A., M.A., University of West Indies.
- PEREZ, GEORGETTE T., Director, New Student Center, North. B.S., M.A., University of Florida.
- PHILP, ETON G., Associate Professor, Department Chairperson, College Prep, North. A.A., Miami Dade College; B.A., M.A., University of Miami.
- PUCCINI, MARIA C., *Director, Testing, Testing, North.* B.A., University of South Florida; M.A., College of William and Mary.
- PUCKETT, VIRGINIA A., Associate Professor Sr., Department Chairperson, Mathematics, North. B.S., M.A.T., University of Florida.
- SANTIAGO COLON, DAWN K., Program Manager, Retooling Science, North.
- SECADES, MARIA C., Assistant To The Dean, Academic, Academic Affairs, North. A.A., Miami Dade College; B.S., Florida International University.
- SILVA, KENNY A., *Manager, Media Services, North.*A.A., Instituto de Ciencias de la Salud-Ces.
- SMART, JAMES GRAHAM, *Interim, Director, School of Justice, North.* B.S., M.A., Appalachian State University.
- SMITH, SHONNDA, *Program Manager, Extended Studies, North.* B.A., M.A., California State University-Long Beach.
- TONEY, FREDRIC M., Manager, Advisement and Counseling, North. B.S., Tuskegee University; M.B.A., Virginia Polytechnic Institute and State University.
- TONEY, HILDA L., Executive Director, Entrepreneurial Education Center, North. B.A., University of Miami: M.P.A., Clark Atlanta University.
- VENEZUELA, EFRAIN J., Program Manager, Extended Studies, North. B.S., S.U.N.Y. at Stony Brook; M.S., Middle Tennessee State University; Ed.D., Nova Southeastern University.
- WHITE-PERSON, LYNN, Assistant Dean, Students, Student Services, North. A.A., Miami Dade College; B.B.A., M.P.A., Florida International University
- WILLIAMS, MAURICE, *Director, Dean of Administration, North.* B.S., North Carolina A and T State University; M.B.A., Adelphi University.
- ZONDERMAN, RICHARD B., Program Manager, School of Justice, North. B.S., University of Pittsburgh; M.S., Ph.D., Virginia Commonwealth University.

West Campus Administration

- BILBAO, MARIA A., Executive Director, Administrative Services, West. A.A., Miami Dade College; B.Ed., M.Ed., University of Miami; Ed.D., Florida International University.
- ARMAND, MICHELLE, *Department Chairperson*, *Administrative Services*, *West.* A.A., Miami Dade College; B.S., Florida State University; M.S., Florida International University.
- CRICHLOW, YVETTE FAYE, *Director, CE Overbead-West, West.* A.A., Miami Dade College; B.B.A., M.S., Florida International University.
- DEMAHY,ANA M., Director, Administrative Services, West. A.A., A.S., Miami Dade College; B.A., Florida International University; M.S., Nova Southeastern University.

Wolfson Campus Administration - Executive

- MONTOYA, ROLANDO, Professor, Campus President, Wolfson. B.S., Instituto Tecnologico de Estudios Superiores de Monterrey; M.S., Ed.D., Florida International University. The Sun Bank Endowed Teaching Chair 1995-1997. The Carlos Arboleya/Barnett Bank Endowed Teaching Chair 1998-2000.
- BALLA, RUTH A., Executive Director, Virtual College, Virtual College, Wolfson. B.S., Wilkes University; M.S., North Carolina State University.
- HOLLOWAY, ALEXANDRIA, Professor, Dean, The Honors College, Wolfson. B.M.Ed., Jackson State University; M.S., University of Illinois at Urbana-Champaign; Ph.D., Florida State University.
- MEYER, THOMAS W., Interim Dean, Academic Affairs, Wolfson. B.A., M.S., Ph.D., University of Pennsylvania.
- ROBINSON, HERBERT, *Dean, Student Services, Wolfson.* B.A., Philander Smith College; M.Ed., Lincoln University.
- SCHMELZER, JUDY L., Dean, Administrative Services, Wolfson. A.A., Miami Dade College; B.P.S., Barry University; M.S., Florida International University.

Wolfson Campus Administration

- AGUIAR, JUAN C., Manager, Academic Network, Wolfson. A.A., Miami Dade College; B.P.S., Barry University.
- AHERN-HETTICH, COLLEEN, Director, EEI, Natural and Social Sciences, Wolfson. B.EA., University of Colorado-Boulder.
- ALVAREZ, ALEJANDRO R., Program Director, Take Stock In Children, Wolfson. B.A., University of Florida; M.S.W., Florida International University.
- BALZARETTI, ROLANDO G., *Manager, Academic Network, Wolfson*. A.A., Miami Dade College.
- BERNARD-STOKES, CAROLINE L., Assistant to the Campus President, Campus President's Office, Wolfson. A.A., Miami Dade College; B.A., Florida International University.
- BLAIR, RISA S., *Manager, Virtual College, Wolfson.* B.A., University of Hartford; Ed.D., Nova Southeastern University.
- BRAUN, JEROME R., Senior Systems Analyst, Virtual College, Wolfson. B.S., Minnesota State University-Mankato; M.S., New York Institute of Technology.
- BRAVO, JENNIFER, Director, The Honors College, InterAmerican. A.A., Miami Dade College; B.A., M.S., Florida International University.
- BURLISON, JAN E., Director, Retention and Transition Services, Wolfson. B.A., M.A., Ball State University.
- BURRUS, EDWARD C., Associate Professor Sr., Director, The Honors College, North. B.A., Michigan State University; M.S., Long Island University; D.A., University of Miami.
- CALABRESE, ROBERT H., Associate Professor Sr., Campus Chief Inform. Officer, Learning Resources, Wolfson. B.A., Embry-Riddle Aeronautical University; M.S., Ph.D., Nova Southeastern University.
- CARROLL, JESSICA I., Professor, Associate Dean, Academic, Academic Affairs, Wolfson. A.A., A.S., Miami Dade College; B.S., M.S., Florida International University.
- CASTRO, ANEISAH V., Program Manager, Retention and Transition Services, Wolfson. B.A., Universidad de la Habana.

- CHAVEZ, EDUARDO, *Director, REVEST Program, REVEST-Cr 2007-2008, Wolfson.* B.A., M.A., Florida International University.
- CHIN, JOHN Q., *Lab Manager, Computer Information Systems, Wolfson.* B.S., University of Florida; J.D., University of Miami.
- CRUZ, ANA M., Professor, Department Chairperson, Business, Wolfson. A.A., Miami Dade College; B.B.A., Florida International University; M.B.A., St. Thomas University; D.B.A., Nova Southeastern University. The Southeast Banking Corporation Foundation Endowed Teaching Chair 1998-2000. The Wolfson Senior Foundation Endowed Teaching Chair 2002-2004.
- DAMAS, GUILLERMINA, Associate Professor Sr., Department Chairperson, Natural Science, Health and Wellness, Wolfson. A.B., Emmanuel College; Ed.S., M.A., Barry University; M.S., Northeastern University; Ph.D., University of Miami. The Murray Sisselman Endowed Teaching Chair 1996-1998.
- DANGER, IVONNE M., *Director, Career and Transfer Center, Wolfson.* M.A., Montclair State University; M.S., Long Island University Brooklyn Campus.
- DAVID-WEST, HAIG, Department Chairperson, Arts and Philosophy, Wolfson. M.A., University of Wisconsin-Madison; Ph.D., New York University.
- DAVIES, LAWRENCE B., *Manager, Virtual College, Wolfson.* B.A., University of California-Los Angeles; M.A., School For International Training.
- DE DULUC, LOORNA I., Assistant Professor, Department Chairperson, Computer Information Systems, Wolfson. B.S., Florida Metropolitan University-Tampa College, Lakeland; M.S., Nova Southeastern University.
- DE LA ROSA, JANET, Manager, Virtual College, Wolfson. B.S., M.S., Nova Southeastern University.
- DE LOS REYES, GLORIA E., Assistant Dean, Student Services, Wolfson. A.A., Miami Dade College; B.P.A., M.P.A., Florida International University.
- DELGADO, LOURDES M., Director, Advisement and Counseling, Wolfson. B.A., University of Miami.
- EARLE, PATRICIA L., *Manager, Education, Wolfson.* M.A.T., National-Louis University.
- EPSTEIN, PAULA, Professor, Director, International Student Services, Wolfson. B.A., Temple University; M.Ed., University of Miami; M.A., University of South Florida; Ph.D., Florida International University. The Peter H. Clayton Endowed Teaching Chair 1995-1997.
- FANO, ESTHER S., *Director, Hospitality Management Program -W/C, Wolfson.* A.A., Miami Dade College; B.A., M.S., Florida International University.
- FERNANDEZ, JANELLE, Webmaster, Virtual College, Wolfson. B.B.A., Florida International University.
- FERNANDEZ, ZENAIDA, *Professor, Director, Library Administration, Wolfson.* B.A., Barry University, M.S., Florida State University.
- FUILLERAT, VIRGINIA I., Director, The Honors College, Wolfson. A.A., Miami Dade College; B.A., Florida Atlantic University; M.S., Florida International University.
- GABB, GEORGE M., Department Chairperson, Computer Information Systems, North. A.A., Broward Community College; B.S., M.S., J.D., Nova Southeastern University.
- GARCIA, ROLANDO, Director, Computer Courtyard, Wolfson. B.S., University of Miami; M.S.MIS, Florida International University.
- GIOVINAZZO,ALICIA M., Department Chairperson, Mathematics, Wolfson. B.S., M.S., D.A., University of Miami.
- GONZALEZ, SONIA M., Program Manager, Community Education, Wolfson. B.A., Florida International University.
- GUARCH, GERARD J., *Director, Administrative Services, Wolfson.* B.S., Fordham University; M.S., Barry University.
- HARDING, DOUGLAS G., Director, Media Services, Wolfson. B.A., University of Tampa.

- HODGES, DEVENI N., Director, Upward Bound Grant, Wolfson. B.A., Florida State University; M.B.A., Nova Southeastern University; M.M., University of Miami.
- IMAM, SAHIR, Director, Academic Network, Wolfson. D.P., Concordia University; M.S., St. Thomas University.
- INTERIAN, ALINA, Executive Director, Florida Center for the Literary Arts, Wolfson. B.A., M.S., Barry University.
- IRVING JR., MERRILL L., Department Chairperson, Community Education, Wolfson. B.A., M.P.A., West Virginia University; Ed.D., University of Southern California.
- JEAN-BART, RULX, Assistant Professor, Director, Admissions and Registration, Wolfson. M.S.W., University of Connecticut.
- KAIL, TATIANE K., Chief Engineer, Media Services, Wolfson. B.S., Barry University.
- KING, DIANE N., *Director, School of Computers and Engineering, Wolfson.* B.A., C.U.N.Y.Queens College; M.S., S.U.N.Y. College at Cortland; Ph.D., Nova Southeastern University.
- LOPEZ, DELIA, *Director, Miami Book Fair International, FCLA, Wolfson.* A.A., Miami Dade College; B.A., Florida International University.
- LOZANO, JOSE M., Department Chairperson, School of Architecture and Interior Design, Kendall. M.Arch., Kent State University.
- LUDOVICI, ELAINE M., Professor, Department Chairperson, English and Communication, Wolfson. B.A., M.A., Clarion University of Pennsylvania.
- MARQUARD, KENNETH R., *Director, Access (Disability Services), Wolfson.* B.S., Rhode Island College; M.Ed., Florida Atlantic University; Ph.D., University of Miami.
- MARTINEZ, OSCAR, Manager, Academic Network, Wolfson.
- MCCONNELL, SCOTT T., Security Chief Director, Security Services. Wolfson.
- MEDINA, JENNY, Services Supervisor III, Campus Services, Wolfson. B.S., Universidad Nacional Pedro Henriquez Urena.
- MENDEZ, LISSETTE, Program Coordinator, Florida Center for the Literary Arts, Wolfson. B.A., M.EA., Florida International University.
- MILLER, JEFFERSON K., *Program Leader, Engineering, Kendall.* A.A., Miami Dade College; B.S., Florida International University.
- MUNOZ, ARNOLD N., *REVEST Program, REVEST-Cr 2007-2008, Wolfson.* B.A., M.A.E., University of Arizona; Ph.D., Michigan State University.
- MUNOZ, GERMAN, Professor, Department Chairperson, Social Science, Wolfson. B.S., Spring Hill College; M.A., Ph.D., University of Miami. The Reverend Glenn C. James Endowed Teaching Chair 1992-1994. The First Union National Bank of Florida Endowed Teaching Chair 1996-1998.
- NASH, CAROL, *Director, New Student Center, Wolf*son. B.A., University of Denver; M.A., Iliff School of Theology.
- NAVARRO, HAYDEE, Director, Virtual College, Wolfson. A.B., University of Michigan-Ann Arbor; M.A., Eastern Michigan University; Ph.D., University of Miami.
- NEGROUK, VALENTINE, Program Manager, Biotechnology Initiatives, Wolfson. B.S., Ph.D., Moscow State University-Moscow, Lomonosov.
- NEWAY, ROBERTA, *Manager, Virtual College, Wolf*son. B.S., Florida State University; M.S., Florida International University.
- NGUYEN, THOMAS T., *Director, The Law Center, Wolfson.* B.A., University of California-Santa Barbara; J.D., University of Miami.
- PARKER, ELAINE D., Corporate Relations Manager, Miami Book Fair International, FCLA, Wolfson. B.M.Ed., M.A., Central Michigan University.
- PIRSON, ROSELYNE D., Program Coordinator, Florida Center for the Literary Arts, Wolfson. B.S., Ph.D., University of Miami.

- PITTMAN, FLOYD E., Assistant Professor, Department Chairperson, Computer Information Systems, Kendall. A.A., Miami Dade College; B.S., M.S., Barry University.
- PORRO, ADAM F., *Director, Testing, Wolfson.* B.S., M.S., Florida International University.
- POVIONES-BISHOP, MARIA D., Director, School of Computers and Engineering, Wolfson. B.S., University of Miami; M.A., Florida International University.
- QUEBBEMANN, FRANK J., Assistant Professor, Department Chairperson, E.S.L./Foreign Languages, Wolfson. B.S., Loyola University of Chicago; M.A., University of Illinois-Chicago.
- RADBILL, MARITZA S., Program Manager, Community Education, Wolfson. B.S., New York University; M.S., Florida International University.
- RAMIREZ, JAVIER E., *Program Manager, Virtual College, Wolfson.* B.A., M.S., Bloomsburg University of Pennsylvania.
- REIGOSA, TERESA, Manager, Student Life, Wolfson. B.S., M.S., Florida International University.
- ROBERTS, BARBARA S., Assistant Director, Library Administration, Wolfson. M.S., Florida State University.
- ROSS, GORDÍA A., *Program Manager, Education, Wolfson.* B.A., Hobart and William Smith Colleges; M.S., Columbia University.
- SANCHEZ MALDONADO, MARILENA, Administrative Assistant III, Academic Affairs, Wolfson. B.F.A., University of Florida; M.B.A., Florida International University.
- SMITLEY, BRUCE L., Learning Disability Specialist, Access (Disability Services), Wolfson. B.S., Huntington College; M.S.Ed., Indiana University; Ed.D., University of Miami.
- SOTO, WILLIAM, Program Manager, Retention and Transition Services, Wolfson. A.A., Miami Dade College; B.S., M.S., Nova Southeastern University.
- THURER, PRISCILLA A., Program Coordinator, Florida Center for the Literary Arts, Wolfson. B.A., Simmons College; M.A., Teachers College, Columbia University.
- TORRES, SILVIA P., Program Manager, High Growth Job Training, Wolfson. B.A., C.U.N. YQueens College; M.A., City University of New York Graduate Center
- VERA, ESPERANZA M., Director, Recruitment, New Student Center, Wolfson. A.A., Miami Dade College; B.A., University of Florida; M.S., Florida International University.
- WHITE, RICHARD O., Professor, School Director, School of Computers and Engineering, Wolfson. A.A., Miami Dade College; B.S., M.S., Barry University; Ph.D., University of Miami.
- YARROW, JOANN M., Director, Prometeo Theatre, Florida Center for the Literary Arts, Wolfson. B.F.A., Boston University.
- YOUNG, JOSHUA B., Director, Center for Comm. Involvement, Wolfson. B.A., University of Virginia; M.P.A., M.S.W., Florida State University.

Miami-Dade College Faculty

- ABASCAL, JUAN R., Professor, Social Science, Kendall. B.A., Rutgers University; M.A., Ph.D., Kent State University. The Dade County Public School Employees' Federal Credit Union Endowed Teaching Chair 1996-1998.
- ABETY, MIRIAM FRANCES, Associate Professor, Psychology, InterAmerican. B.A., Florida International University; M.S., D.Psy., Carlos Albizu University, Miami Campus.

- ABRUNA, RUBEN, Instructor, School of Entertainment and Design Technologies, North. B.F.A., M.A., New York University.
- AGUILAR-FIGULY, VIOLETA B., Professor, Nursing, Medical Center B.S.N., University of Santo Tomas; M.S.N., Virginia Commonwealth University.
- ALBURY, THERESA A., Assistant Professor, English and Communication, Wolfson. B.L.S.T., M.A., Barry University.
- ALDERFER, KARIN S., *Professor, College Prep, Kendall.* Ed.S., Florida Atlantic University; B.A., M.A., Morehead State University. Gordon Foster and Thelma Peters Endowed Teaching Chair. 2nd Year 2006-2008.
- ALEM, MARIO A., Assistant Professor, Emergency Medical Services, Medical Center. A.A., A.S., Miami Dade College.
- ALEXANDER, JOHN W., Associate Professor, Mathematics, North. B.S., Boston University; M.A., Bowling Green State University.
- ALFONSO, ANTONIO L., Assistant Professor, Mathematics, Kendall. B.S., Union Institute and University; M.S., Nova Southeastern University.
- ALLEN, PRESTON L., Associate Professor, English and Communication, North. B.A., University of Florida; M.EA., Florida International University.
- ALLONCE, RUZ H., Associate Professor Sr., Mathematics, North. B.S., Bethune Cookman College; M.S., University of Miami.
- ALONSO JR., MIGUEL, Assistant Professor, Engineering, Wolfson. B.S., M.S., Ph.D., Florida International University.
- ALVAREZ, MARIA D., Assistant Professor, Mathematics, Kendall. A.A., Miami Dade College; B.S., M.S., Florida International University.
- ALVAREZ, ROLANDO, Associate Professor Sr., Social Science, Wolfson. M.S., St. Thomas University; B.A., M.A., Ph.D., University of Miami.
- ALVAREZ, ROSANY H., Professor, Mathematics, InterAmerican. A.A., Miami Dade College; M.A., M.S., University of Miami; B.S., Ph.D., Florida International University. Mary Pond Family and Friends Endowed Teaching Chair 2001-2003.
- ALVAREZ, YAMINA, Associate Professor, Nursing, Medical Center. A.S., Colegio Universitario del Este; B.S., Inter American University of Puerto Rico-San German; M.S.N., Barry University.
- AMOLE, BABATUNDE O., Associate Professor, Biology, Health and Wellness, Kendall. B.S., M.S., Long Island University Brooklyn Campus; Ph.D., New York University.
- ANDERSON, BAMBI L., Associate Professor, Fine and Apld-Art-Dance, NWSA.
- ANDERSON, LISA H., Associate Professor Sr., School of Entertainment and Design Technologies, North. B.A., Brenau University; M.A., M.F.A., University of Miami.
- ANDREOLI, MICHAEL H., *Professor, Mathematics, North.* B.A., University of California-San Diego; M.A., M.S., University of California-Berkeley.
- ANDREWS JR., W. BARRY, Instructor, Computer Information Systems, Kendall. B.A., North Carolina State University; M.S., Florida International University.
- ANDREWS, HAROLD D., *Professor, Psychology, Wolf-son.* A.A., Miami Dade College; B.Ed., University of Miami; M.S., Florida International University.
- ANGLIN, MARCIA A., Assistant Professor, Biology, Health and Wellness, North. B.A., University of West Indies; M.S., Florida International University
- ANRRICH, GRACIELA M., Professor, E.S.L./Foreign Languages, InterAmerican. B.S., M.A., Florida International University; Ph.D., Georgetown University.
- ANTHAPPAN, PAUL C., Assistant Professor, Mathematics, North. M.S., University of Kerala; D.A., University of Miami.

- ARAGON, JOSE R., Assistant Professor, Arts and Science, InterAmerican. A.A., Miami Dade College; B.A., M.A., Florida International University.
- ARANEGUI, SANTIAGO Q., Associate Professor Sr., Architecture, Wolfson. B.S., Inter American University of Puerto Rico.
- ARMINIO, MICHAEL, Associate Professor Sr., Chemistry/Physics/Earth Science, North. A.A., B.S., Monmouth University; B.A., M.A., Florida Atlantic University.
- ASIN, MARIA L., Associate Professor Sr., E.S.L./Foreign Languages, InterAmerican. B.A., M.Ed., University of Illinois-Urbana-Champaign.
- ASMAR, NORMAN, *Professor, College Prep, Kendall.* B.A., Florida State University; M.A., University of Southern Mississippi.
- AURICCHIO, BIAGIO, *Professor, E.S.L./Foreign Languages, Kendall.* A.A., Miami Dade College; B.A., Florida International University; M.A., Florida State University.
- AUSTIN-HILL, SUZANNE S., *Professor, Mathematics, Kendall.* B.A., George Washington University; M.S., Nova Southeastern University; Ph.D., University of Miami. The Blockbuster Entertainment Corporation Endowed Teaching Chair 1997-1999.
- AVONDSTONDT, DOROTHY S., Assistant Professor, E.S.L./Foreign Languages, Wolfson. B.A., Mc-Daniel College; M.S., Nova Southeastern University; Ed.S., University of Miami.

- BABIC, DJURADJ, Instructor, Computer Information Systems, Hialeab. B.S., M.S., Florida International University.
- BAHAMONDE, JOSE R., Professor, E.S.L./Foreign Languages, Wolfson. A.A., Miami Dade College; B.A., M.A., Florida Atlantic University. The Kiwanis of Little Havana Foundation Endowed Teaching Chair in Honor of Hispanic Culture and Music 1993-1995.
- BAIN, ALONZO C., Associate Professor Sr., Arts and Philosophy, Wolfson. B.S., Fisk University; M.S., Florida International University. The Hank Meyer Endowed Teaching Chair 1997-1999.
- BAKER, PHYLLIS, Associate Professor Sr., Social Science, Wolfson. B.S., Florida Memorial College; M.S., Florida International University; Ph.D., Union Institute and University.
- BALLINGER, GREGORY J., Professor, Computer Information Systems, Kendall. B.S., University of Miami; M.S., Nova Southeastern University; M.A., Goddard College. The Philip Morris Foundation Endowed Teaching Chair 1995-1997. The Mac Smith Endowed Teaching Chair For Environmental Ethics 1999-2001.
- BALMORI, CHRISTINE, *Instructor, Business, Wolf-son.* A.A., Miami Dade College; B.B.A., M.A., Florida International University.
- BANKS, SUSAN L., Associate Professor Sr., Fine and Applied-Visual Arts, NWSA. B.F.A., Florida International University; M.F.A., University of Miami. Elpidio Nunez/Northwestern Meats Endowed Teaching Chair. 2nd Year 2006-2008.
- BARNET, RICARDO A., Assistant Professor, Emergency Medical Services, Medical Center. A.A., A.S., Miami Dade College; B.P.A., Barry University.
- BARROS, JOSE A., *Professor, Natural Science, Wolf*son. M.S., Ph.D., University of Miami.
- BARRY, NAZIRA K., Assistant Professor, Psychology, Wolfson. B.L.S.T., Barry University; M.S., St. Thomas University.
- BARUA, RATAN K., Associate Professor Sr., Mathematics, North. M.S., Michigan State University.
- BASILE, JENNIFER A., Assistant Professor, Arts and Philosophy, Kendall. B.F.A., University of Miami; M.F.A., Southern Illinois University-Edwardsville.

- BATLLE, MARGARITA C., Professor, E.S.L./Foreign Languages, Kendall. M.A., Ph.D., University of New Mexico
- BEGUIRISTAIN, MARIO E., Associate Professor, School of Entertainment and Design Technologies, North. B.A., University of South Carolina-Columbia; M.S., Ph.D., University of Southern California.
- BEHAR, LILLIAM P., *Instructor, Letters, Hialeab.* A.A., Miami Dade College; B.Ed., University of Miami; M.S., Nova Southeastern University.
- BELOKON, IGOR E., Assistant Professor, Psychology, Wolfson. B.A., Florida International University, Ph.D., Carlos Albizu University, Miami Campus.
- BELTRAN, LUIS A., Professor, Mathematics, Kendall.
 B.A., St. Thomas University; M.A., University of Miami; Ph.D., University of Central Florida. The Dr. Stanley Sutnick Endowed Teaching Chair 2003-2005. The Adorno & Yoss Employee Charitable Foundation Endowed Teaching Chair 2008-2011.
- BENITES, MARY ANN, *Instructor, Letters, Hialeab.*B.A., Rollins College; M.S., Nova Southeastern University.
- BENITEZ, PILAR L., *Professor, Architecture, Wolfson.* B.A., University of Miami; M.S., Florida International University.
- BESTARD, JAIME, Assistant Professor, Mathematics, Hialeah. B.M.E., Instituto Superior Politecnico "Jose Antonio Echaverria"; Ph.D., Universidad Central de las Villas.
- BHAGWANDIN, HELEN B., Associate Professor Sr., Health Occupations-Generic Nurse-HC, Medical Center. B.S.N., University of Miami; M.S.N., Barry University.
- BIAGGI, LESLIE A., Professor, E.A.P./Foreign Languages, North. B.A., Northeastern University; M.A., University of Michigan-Ann Arbor.
- BIBBY, NANNETTE M., Assistant Professor, Computer Information Systems, Kendall. B.A., Florida International University; M.S., Barry University.
- BISONO, CARMEN R., Assistant Professor, Diagnostic Medical Sonography, Medical Center. B.S., Barry University.
- BLANCHETTE, LORETTA J., Assistant Professor, Mathematics, Hialeah. A.A., Broward Community College; B.S., Florida Atlantic University; M.S., Florida Institute of Technology.
- BLANCO, YESENIA B., Assistant Professor, Nursing, Medical Center. B.S., M.S., Florida International University.
- BOCHMAN, PHYLLIS Y., Assistant Professor, Education, North. A.A., Miami Dade College; B.S., M.S., Barry University; Ed.S., Ed.D., Nova Southeastern University.
- BOGNAR, SUZANNE H., *Professor, English, Kendall.* B.A., Stetson University; M.A., Duke University.
- BONALLO, BARBARA A., Associate Professor Sr., English and Communication, Wolfson. B.A., M.A., Western Washington University.
- BONAWITZ, PAULA, Assistant Professor, Nursing, Medical Center. B.S.N., University of Miami; M.S.N., Barry University.
- BONELLI, MATTHEW J., *Instructor, Music, Kendall.* B.M., M.M., University of Miami.
- BOOS, KENNETH G., *Professor, Music, Kendall.* B.M., Heidelberg College; M.M., University of Cincinnati; D.M.A., University of Miami. The Andrew Blank Endowed Teaching Chair 1995-1997.
- BORGES, JULIO C., Assistant Professor, Accounting/ Business Administration, North. A.A., Miami Dade College; B.B.A., M.Ed., University of Miami; M.S.M., Florida International University.
- BOWLER, MICHAEL J., Professor, E.S.L/Foreign Languages, Kendall. B.A., Boston College; M.A., University of Pennsylvania; J.D., University of Miami.
- BRAHIM, THERESSA R., *Professor, Nursing, Medical Center.* A.A., Miami Dade College; B.S.N., Florida State University; M.S., St. Thomas University.

- BRAUN, JOSHUA I., Associate Professor, Arts and Philosophy, Wolfson. B.E.A., University of Florida; M.A., University of Illinois-Chicago.
- BROWN IV, JAMES W., *Professor, Music, Kendall.* B.M., Ithaca College; M.M., University of Miami.
- BROWN, BRIDGIE M., Assistant Professor, L.P.N., Medical Center. A.A., A.S., Miami Dade College; B.S.N., M.S.N., Florida International University.
- BROWN, JERRY L., Associate Professor, Vision Care, Medical Center. A.S., Miami Dade College; A.A., Palm Beach Community College; B.A., University of South Florida.
- BROWN, JOANN E., *Professor, College Prep, North.*B.S., M.A., West Chester University of Pennsylvania.
- BROWNHOLTZ, DIANE E., Professor, Arts and Philosophy, Wolfson. B.Ed., Northwestern University; M.A., University of Illinois; Ph.D., University of Miami. The Ruth Anderson Foundation Endowed Teaching Chair 1994-1996.
- BRUBECK, DAVID W., *Professor, Music, Kendall.*B.M., M.M., Northwestern University; Ph.D., University of Miami.
- BRUCATO, DOMINIC, Associate Professor Sr., Social Science, Kendall. B.A., University of Notre Dame; M.A., Ph.D., Kent State University. The Hank Meyer Endowed Teaching Chair. 3rd Year 2005-2007.
- BUMPERS, KEVIN W., Associate Professor, Music, Kendall. B.M., University of South Alabama; M.M., Florida State University. The Dr. Robert H. McCabe Endowed Teaching Chair 1999-2001.
- BUNDUKAMARA, CRISTI L., Assistant Professor, Health Occupations-Generic Nurse-HC, Medical Center B.S., M.S.N., Florida International University.
- BUSTAMANTE, LINDA R., *Professor, Music, Kendall.* B.M., University of Kansas; M.M., D.M.A., University of Texas-Austin.
- BUSTAMANTE, SALMA B., Professor, E.S.L./Foreign Languages, InterAmerican. A.A., B.A., Marymount University; M.Ed., George Mason University
- BUTLER, SUZANNE K., Assistant Professor, Biology, Health and Wellness, North. A.A., B.S., M.S., New Mexico State University.
- ľ
- CABEZAS, ROBERTO J., Assistant Professor, Mathematics, Kendall. M.S., Odessa State University; Ph.D., Joint Institute of Nuclear Research.
- CABRERA, JOSEFINA M., Associate Professor, Radiation Therapy Technology, Medical Center. A.A., Marymount College; B.P.S., Barry University.
- CACACE, MARY E., Associate Professor, Health Occupations-Generic Nurse-HC, Medical Center. A.A., Manatee Community College; B.S.N., Florida State University; M.S.N., Barry University.
- CAIAFFA, ANDRES A., Assistant Professor, Nursing, Medical Center. B.S.N., Florida International University.
- CALAVIA, JOSE E., Assistant Professor, Chemistry/ Physics, Kendall. B.S., Florida International University, M.S., Johns Hopkins University.
- CALDERIN, VICTOR, *Instructor, Letters-English, Hialeab.* B.A., M.A., University of North Carolina-Chapel Hill.
- CALLE, EDUARDO J., Associate Professor, School of Entertainment and Design Technologies, North. B.M., M.M., University of Miami.
- CANEL-PETERSEN, IRENE, Associate Professor Sr., Communication Arts, InterAmerican. A.A., Miami Dade College, B.A., Florida International University: M.A., University of Miami.
- CANNON, CHERIE, Assistant Professor, English and Communication, North. B.Ed., M.A., University of Miami.

- CARAMES, MANUEL J., Assistant Professor, Mathematics, North. B.S., M.E.N.G., Ph.D., Moscow State University of Communication.
- CARMONA, MARLENE, Assistant Professor, Physical Therapy Assistant, Medical Center. B.S., M.S., University of Miami.
- CARTER, LESLIE S., *Professor, College Prep, Kendall.* B.A., Fisk University; M.S., Barry University.
- CASADO, MARIA J., *Instructor, Library Asst Dir, Hialeab.* B.A., M.A., University of South Florida.
- CASSIDY, MARCIA E., *Professor, E.S.L./Foreign Languages, Kendall.* B.A., University of West Indies; M.Ed., Boston University; Ed.D., Florida International University.
- CASTELLS, DIANA R., Associate Professor Sr., E.S.L./ Foreign Languages, Wolfson. A.A., Miami Dade College; B.A., Florida International University; M.A., University of Texas-Austin.
- CASTILLO, SANDRA M., *Professor, College Prep, Wolfson.* A.A., Miami Dade College; B.A., M.A., Florida State University.
- CASTRO, ROSA M., Assistant Professor, Medical Laboratory Technology, Medical Center. B.S., Florida Atlantic University.
- CAVALARIS, MARTHA E., Professor, Accounting/Business Administration, North. B.B.A., Florida International University; M.A., St. Thomas University.
- CEPERO,ANA M., *Professor, E.S.L./Foreign Languages, InterAmerican.* B.A., Georgia College and State University; M.A., Ph.D., Emory University.
- CERNA, HUMBERTO J., Professor, Public Service-Trans/Interpret, InterAmerican. B.S., Universidad Nacional Autonoma de Nicaragua; M.A., Monterey Institute of International Studies; M.A., University of Texas-El Paso.
- CHAVARRIA, LILIA A., Assistant Professor, Radiologic Sciences, Medical Center. B.S., Florida Hospital College of Health Science.
- CHERNOFF, LAURENCE, *Professor, Mathematics, Kendall.* B.A., M.A., University of Hawaii.
- CHIAPPONE, MARK, *Instructor, Biology, Home-stead.* B.S., University of Miami, M.S., Nova Southeastern University.
- CHILDE, MIRANDA J., Assistant Professor, E.S.L./Foreign Languages, Wolfson. B.A., C.U.N.Y.Hunter College; M.S., Nova Southeastern University.
- CHIRINOS, ANTONIO E., Instructor, Arts and Philosophy, Kendall. A.A., Miami Dade College; B.F.A., Florida International University; M.F.A., Columbia University.
- CHOY, RENE, Instructor, Accounting/Business Administration, North. A.S., Miami Dade College; B.A., M.S., Florida Atlantic University.
- CHUNG, COLLEEN A., *Instructor, Business Administration, Kendall.* A.A., Miami Dade College; B.A., M.B.A., Florida International University.
- CIERESZKO, ANA A., Professor, Chemistry/Physics, Kendall. B.S., University of Miami; M.S., Old Dominion University; Ed.D., Florida International University. The Barton J. and Marilyn Powell/ EPL. Endowed Teaching Chair 2000-2002. Steel Hector and Davis Endowed Teaching Chair 2004-2006.
- CLARK, CARLA M., Associate Professor, Library Administration, Medical Center. B.A., Florida Atlantic University; M.A., University of South Florida.
- CLARK, CHERYL M., *Professor, English and Communication, Wolfson.* B.A., C.U.N.YLehman College; M.A., Ph.D., University of Miami.
- CLEGG, JUSTINE S., Associate Professor Sr., Midwifery, Medical Center. B.A., University of Miami; M.S., Florida International University The Bell South Endowed Teaching Chair 2003-2005.
- CLEMENTE, ISIS C., Professor, E.A.P./Foreign Languages, North. B.A., Queens University of Charlotte; M.A., Teachers College, Columbia University; J.D., University of Miami. The Linda and Hank Raatama Endowed Teaching Chair 1997-1999.

- CLOUES, BETH L., Associate Professor Sr., Library, North. B.A., Kentucky Wesleyan College; M.S., Florida State University.
- COBHAM, IAN P., Professor, Mathematics, Homestead. B.S., M.S., Ph.D., University of Miami. Pan Am International Flight Academy Endowed Teaching Chair 2001-2003. The Mary Pond Family and Friends Endowed Teaching Chair 2005-2007.
- CONROY, PATRICIA D., Associate Professor Sr., Business Administration, Kendall. B.S., M.S., University of Florida.
- CONSIDINE, LINDA M., Assistant Professor, Fine and ApId-Art-Music, NWSA. B.A., Central Michigan University; B.A., Youngstown State University; M.M., Florida International University.
- COOK-TIDWELL, NANCY L., Assistant Professor, Nursing, Medical Center. A.A., Hillsborough Community College; B.S., University of Arizona; M.S., Northern Arizona University.
- COOMBS, CLAUDETTE J., Assistant Professor, Health Occupations-Generic Nurse-HC, Medical Center. B.S., M.S., Florida International University.
- COOPER, LENNIE A., Assistant Professor, Computer Information Systems, North. B.S., Lane College; M.S., Purdue University.
- CORBIN, CHRISTOPHER B., Assistant Professor, Computer Information Systems, Wolfson. B.S., M.B.A., Florida International University.
- CORNISH, ERIC, Instructor, School of Entertainment and Design Technologies, North. B.F.A., Miami International University of Art and Design.
- CORONEL, ALINA M., Assistant Professor, Mathematics, Kendall. B.S., M.S., Florida International University.
- CORRALES, ANA C., Instructor, Accounting/Business Administration, North. B.A., Swarthmore College; M.A., Johns Hopkins University.
- CORREA, JESSICA B., Associate Professor, Physical Sciences, Homestead. A.A., Miami Dade College; B.S., M.S., University of Michigan-Ann Arbor.
- COTE, ELLYN M., *Professor, E.S.L./Foreign Languages, InterAmerican.* B.S., Bowling Green State University; M.A., Barry University.
- COTO, MARIA E., Assistant Professor, E.S.L./Foreign Languages, InterAmerican. A.A., Miami Dade College; B.S., Florida International University; M.S., Nova Southeastern University.
- COUPER, JAMES M., Assistant Professor, E.S.L./Foreign Languages, InterAmerican. A.A., Miami Dade College; B.A., Florida International University; M.S., Nova Southeastern University.
- COX, CHARLES L., *Professor, Social Science, Kend*all. B.A., M.A., Ph.D., University of Georgia.
- CRAWFORD, THOMASINA, Associate Professor, Computer Information Systems, Kendall. B.S., M.S., Florida International University.
- CREELMAN, PATTIA J., Assistant Professor, E.A.P./ Foreign Languages, North. B.A., M.S., Florida International University.
- CUERVO, MARGARITA M., Professor, Mathematics, Kendall. B.B.A., University of Puerto Rico; M.S., New York University; Ed.D., University of Miami. The Murray Sisselman Endowed Teaching Chair 1993-1995.
- CUETO, MARLENE I., Associate Professor, College Prep, North. A.A., Miami Dade College; B.A., Florida International University; M.S., Nova Southeastern University.
- CUEVAS, JENNY D., Associate Professor Sr., The Law Center, Wolfson. B.A., J.D., Rutgers University. The Wachovia Endowed Teaching Chair 2007-2009.
- CULVER, LEE C., Professor, E.S.L./Foreign Languages, Wolfson. B.A., Gettysburg College; Ed.S., Nova Southeastern University; M.A., Middlebury College.

CUIVER, LYLE D., Assistant Professor, Architecture, Kendall. A.B., Washington University In Saint Louis; M.Arch., University of Tennessee; M.A., University of St.Andrews.

- DALE, PAULETTE, Professor, Communication Arts, Kendall. B.A., C.U.N.YQueens College; M.S., University of South Florida; Ph.D., University of Florida. The Daniel K. Gill Endowed Teaching Chair 1992-1994.
- DAMAS, JUAN R., *Instructor, Architecture, Kendall.*B.D.E.S., University of Florida; M.Arch., Virginia Polytechnic Institute and State University.
- DANGLADE, LESLYE D., Assistant Professor, Medical Management Sciences, Medical Center. A.A., Miami Dade College; A.S., C.U.N.Y-Kingsborough Community College; B.S., Florida International University.
- DANIEL-SERANT, MARIE E., Associate Professor Sr., Nursing, Medical Center B.S.N., M.S.N., Florida International University.
- DAVIES, NANCY, Associate Professor Sr., College Prep, Homestead. B.A., University of South Florida; M.S., Florida International University.
- DAVIS BRANTLEY, MINCA T., Assistant Professor, Social Science, North. B.S., University of Florida; M.S., Ph.D., Nova Southeastern University.
- DAVIS, GARY, *Professor, English and Communication, Wolfson.* B.A., Florida International University; M.A., University of Texas-El Paso; Ph.D., Ohio State University.
- DAVIS, ROBERT I., *Professor, Engineering, Kendall.*B.S., University of London; M.S., University of Birmingham.
- DAVIS, TERRENCE W., *Instructor, Emergency Medi*cal Services, Medical Center. A.S., Miami Dade College; B.P.A., Barry University.
- DAWKINS, NORA J., Associate Professor Sr., E.A.P./ Foreign Languages, North. B.P.S., Barry University; M.S., Nova Southeastern University.
- DE ANGELIS, VALERIE, Assistant Professor, Social Science, North. B.A., M.Ed., The College of New Jersey.
- DE ARAZOZA, RAPHAEL C., Assistant Professor, Computer Information Systems, Kendall. B.A., M.S., Florida International University.
- DEARMAS, OSCAR, *Professor, Architecture, Wolfson.*A.A., Miami Dade College; B.A., M.A., University of Florida. The Spillis Candela and Partners, Inc. Endowed Teaching Chair 1995-1997.
- DE BENEDICTIS, MICHEL A., Professor, English, Kendall. B.A., University of California-Los Angeles; M.A., University of Wisconsin-Madison. Hamilton Bank Foundation Endowed Teaching Chair 2004-2006.
- DE FALLA, MARY J., Professor, Communication Arts, InterAmerican. B.A., Skidmore College; M.S.Ed., University of Miami.
- DE KLER, RANDY, Assistant Professor, Respiratory Care, Medical Center. A.A.S., Delaware Technical and Community College Stanton-Wilmington; B.S., Wilmington College; M.S., Florida International University
- DE LA ROSA, NELSON, Assistant Professor, Mathematics, Kendall. B.S., Instituto Superior Politecnico "Jose Antonio Echaverria"; M.S., Florida International University.
- DEL CAMPO, MIRIAM, *Professor, Biology, Health and Wellness, Kendall.* A.A., Miami Dade College; B.S., M.S.Ed., Florida International University.
- DEL PINO-ALLEN, ISABEL, *Instructor, English and Communication, North.* A.A., Miami Dade College; B.A., University of Iowa; M.A., M.B.A., University of Miami.
- DELANEY, GILBERT L., *Professor, Aviation, Kendall.* B.S., M.S., University of Notre Dame.

- DELGADO, MISAEL, *Instructor, Mathematics, Kendall.* B.S., M.S., Florida International University.
- DELINE, TIMOTHY E., Associate Professor, Library, North. B.S.M., Minnesota State University-Mankato; M.A., University of South Florida; D.P.M., Dr. William Scholl College of Podiatric Medicine.
- DEMKO, DAVID J., *Professor, Social Science, North.*B.A., M.A., West Virginia University; Ph.D., University of Michigan-Ann Arbor.
- DI LIDDO, MICHAEL J., Professor, Arts and Philosophy, Wolfson. B.F.A., Florida Atlantic University; M.M., D.M., University of Miami. Honorable Jack Gordon Endowed Teaching Chair 2004-2006.
- DIAZ, AMARILYS, Assistant Professor, Nursing, Medical Center. B.S.N., University of Puerto Rico-Medical Sciences; M.S.N., Florida International University.
- DIAZ, EVELYN, Assistant Professor, Psychology, Homestead. B.A., University of Puerto Rico-Rio Piedras; M.A., New York University; M.S., Ph.D., Carlos Albizu University, Miami Campus.
- DIAZ, JOSE E., *Professor, Natural Science, Wolfson.* B.S., M.S., Ph.D., University of Miami.
- DOMINGUEZ, ALVIO, Associate Professor, Mathematics, Wolfson. B.A., Universidad de Oriente; M.S., Florida International University; Ph.D., University of Miami. The Miami Dade College Endowed Teaching Chair in Engineering, Mathematics and Sciences.
- DONAHUE, STEVEN JOHN, Assistant Professor, E.A.P./Foreign Languages, North. B.A., M.S., Florida International University.
- DONIS, JOSE A., *Instructor, Fine and Applied-Arts, Hialeab.* B.A., M.M., Florida State University.
- DOUYON, MARCAISSE, Associate Professor Sr., Arts and Philosophy, North. A.A., Miami Dade College; B.M., Jackson State University; M.S., Indiana State University.
- DUASSO, MANUEL, Associate Professor Sr., Communication Arts, InterAmerican. B.A., B.S., M.S., Florida International University.
- DUBE, JAMES E., *Instructor, Social Science, Wolfson.*A.A., Miami Dade College; B.S., Florida International University; M.S., St.Thomas University.
- DUFFY, EDWARD, *Professor, Social Science, North.* B.A., M.Ed., University of Arkansas.
- DUNDAS, CHRISTINE A., Assistant Professor, Medical Management Sciences, Medical Center. A.A., A.S., Broward Community College; B.A., Florida Atlantic University; M.S., Florida State University.

Ŀ

- EBITZ, GERARD L., Associate Professor Sr., Fine and Applied-Art-Dance, NWSA.
- ELSEA, FRANKLIN C., Assistant Professor, E.S.L./Foreign Languages, InterAmerican. B.A., Columbia University; M.S., Florida International University.
- EPSTEIN GARCIA, SUSAN H., Associate Professor Sr., Fine and Applied-Art-Music, NWSA. B.M., Berklee College of Music; M.M., Ph.D., Boston College.
- ESCOBEDO, ARMANDO J., Professor, Library, North. B.A., Florida International University; M.S., Florida State University; M.A., Ph.D., University of Florida.
- ESPANA, LOURDES M., Associate Professor, Mathematics, North. A.A., Miami Dade College; B.S., M.S., Florida International University. Wachovia Endowed Teaching Chair. 2nd Year 2006-2008.
- ESPINAL, YANILDA R., Instructor, Mathematics, Kendall. A.A., Miami Dade College; B.S., M.S., University of Miami.
- ETIENNE, MARIE O., Associate Professor Sr., Nursing, Medical Center. B.S.N., M.S.N., Florida International University. The Stanley G. Tate and Family Endowed Teaching Chair 2007-2009.

- FALCO-LESHIN, JOANN M., Professor, English and Communication, Wolfson. B.A., M.A., Barry University; Ed.D., University of Miami. The Blockbuster Entertainment Corporation Endowed Teaching Chair 1994-1996.
- FALLON, MARIA L., Associate Professor Sr., E.S.L./ Foreign Languages, Kendall. B.A., M.S., Florida International University.
- FANCHER, ANDREW J., Associate Professor Sr., Communication Arts, InterAmerican. B.A., M.A., University of Florida.
- FAOYE, OLUBISI, Instructor, Dietetic Technology and Nutrition, Wolfson. M.S., New York University.
- FATEYEVA, NATALYA, Assistant Professor, E.S.L./ Foreign Languages, Kendall. B.A., M.S., Florida International University.
- FENNELL, LAUREL E., *Instructor, Library, North.* B.S., Barry University; M.S., Florida State University.
- FERNANDEZ, CLEMENTE V., Associate Professor, Biology, Health and Wellness, North. B.A., Universidad de la Habana; Ph.D., The Hungarian Committee of Scientific Qualifications.
- FERNANDEZ, IRASEMA L., Professor, E.A.P./Foreign Languages, North. A.A., Miami Dade College; B.S., Florida International University; M.A., University of Florida.
- FERNANDEZ, ORLANDO V., *Instructor, Emergency Medical Services, Medical Center.* A.S., Miami Dade College.
- FERNANDEZ, RAMON I., Professor, Business, Homestead. A.A., Miami Dade College; B.A., M.B.A., M.S.M., Florida International University. The Friends of Miami-Dade Endowed Teaching Chair 1994-1996.
- FERNANDEZ, ROSA M., Assistant Professor, Chemistry/Physics/Earth Science, North. A.A., Miami Dade College; B.S., University of Miami; M.S., Florida Atlantic University.
- FERNANDEZ, TUSHNELDA C., Associate Professor Sr., Computer Information Systems, Kendall. A.A., Miami Dade College; B.S., Florida International University; M.S., Barry University.
- FERNANDEZ, VICTOR M., Instructor, Aviation, Homestead. B.S.C., Florida International University.
- FERNANDEZ-STERLING, RITA MARIA, Assistant Professor, College Prep, Kendall. A.A., Miami International University of Art and Design; B.A., St. Thomas University; M.A., Barry University.
- FERRANTE, JOAN M., Associate Professor Sr., Distribtv-Travel and Tourism-N/C, North. A.A., B.A., Bemidji State University.
- FERRELL, THOMAS A., Assistant Professor, College Prep, Homestead. B.A., Columbia University; M.S., University of Miami.
- FINK, CHARLES K., Professor, Arts and Philosophy, Kendall. B.A., Florida International University; Ph.D., University of Miami.
- FISHKIN, DONNA E., Assistant Professor, Massage Therapy, Medical Center. B.A., University of Maryland-Baltimore County; M.S., American University.
- FLEISCHER, JOEL W., Professor, Education, North. A.A., Miami Dade College; B.A., University of Florida; M.S., Ed.D., Nova Southeastern Univercity.
- FLEISCHMAN, RICHARD A., Associate Professor, Fine and Applied-Art-Music, NWSA. B.M., M.M., The Juilliard School.
- FORAN, ROBERT J., Associate Professor, Business, Wolfson. A.A., Chipola Junior College; B.A., University of Florida; M.A., University of Essex.
- FRADOS, ANDREW B., Assistant Professor, Nursing, Medical Center. B.S.A., University of Arizona; B.S.N., Florida Atlantic University; M.S., Nova Southeastern University; M.S.N., Florida International University.

- FRANK, PRADEL R., Associate Professor Sr., E.S.L./ Foreign Languages, Wolfson. B.A., M.S., Florida International University.
- FRANKEL, NUSIA, Professor, E.S.L./Foreign Languages, InterAmerican. B.A., M.A.T., Fairleigh Dickinson University. The Dade Community Foundation Endowed Teaching Chair 1996-1998.
- FREDERICK, JOHN, *Instructor, English and Communication, Wolfson.* B.A., C.U.N.YBrooklyn College; M.A., Ph.D., Howard University.
- FRYDMAN, MARTA S., Instructor, Library Administration, Wolfson. B.L.S.T., Barry University; M.A., University of South Florida.
- FUNDORA, RAQUEL M., Assistant Professor, E.S.L./ Foreign Languages, InterAmerican. B.A., Duke University; M.S.Ed., University of Miami.

li

- GACH, LAUREN, Assistant Professor, Education, Kendall. M.S., Florida State University; B.S., Ed.D., Florida International University.
- GANCEDO, ALEX, Associate Professor Sr., Social Sciences, Hialeab. A.A., Miami Dade College; B.S., J.D., Florida State University.
- GARCIA JR., PEDRO I., Instructor, Chemistry/Physics/Earth Science, North. B.A., M.S., Florida International University.
- GARCIA, ADRIANA S., *Instructor, Architecture, Kendall.* B.S., University of Rio Grande; B.S., W.S., Universidade Federal Do Rio Grande Do Sul.
- GARCIA, FELIX L., Associate Professor Sr., Mathematics, North. M.S., Ph.D., University of Miami.
- GARCIA, MANOIO, Professor, Psychology, Inter-American. A.A., Miami Dade College; B.A., Florida International University; M.S., Nova Southeastern University; D.Psy., Carlos Albizu University, Miami Campus.
- GARCIA, MARIA A., Instructor, College Prep-Lab, Hialeab. B.S.E.E., M.S., Florida International University.
- GARCIA, SERGIO R., Associate Professor Sr., Mathematics, InterAmerican. A.A., Miami Dade College; B.E.E., M.S., Georgia Institute of Technology.
- GARMAN, SARAH, Associate Professor, College Prep, North. B.S., M.A., Florida State University. Andrew Blank Endowed Teaching Chair 2004-2006.
- GARNER, YVONNE S., Professor, Nursing, Medical Center. A.S., Nassau Community College; B.S.N., Molloy College; M.A., New York University. The Vitas Innovative Hospice Care Endowed Teaching Chair 2000-2002.
- GASIOR, JAMES S., Associate Professor, Fine and Applied-Art-Music, NWSA. B.M., M.M., University of Miami.
- GEHY-ANDRE, PASCALE, Assistant Professor, Physician Assistant, Medical Center. B.S., C.U.N.Y. York College.
- GEORGE, PAUL S., Professor, Social Science, Wolfson. B.A., University of Miami; M.A., Ph.D., Florida State University. The Arthur Hertz Endowed Teaching Chair 1997-1999.
- GERKEN, DONNA, *Professor, Mathematics, Kendall.* B.S., M.S., University of Miami.
- GERSHFELD, ALFRED, Associate Professor, Fine and Applied-Art-Music, NWSA. B.S., Gnesiny State Musical Pedagogical Institute; M.M., G. Muzicescu State Arts Institute.
- GIBSON, ANNETTE R., *Professor, Nursing, Medical Center.* B.S.N., M.S.N., Barry University; M.Ed., University of South Carolina-Columbia. The Joan K. Stout, R.N. Endowed Teaching Chair 1999-2001. The Espirito Santo Bank Endowed Teaching Chair 2003-2005.

- GIL, CARLOS I., Assistant Professor, Mathematics, North. A.A., Miami Dade College; B.S., M.S., University of Miami.
- GILLES, DAPHNEE R., Assistant Professor, E.S.L./ Foreign Languages, Wolfson. B.S., University of Florida; M.S., Florida International University.
- GINES-CANDELARIA, EDWIN A., Professor, Natural Sciences, Wolfson. B.S., University of Puerto Rico-Rio Piedras; M.A., Ph.D., University of Texas-Austin. The Miami Dade College Endowed Teaching Chair 2007-2009.
- GIOL, VICTOR, Associate Professor Sr., Computer Information Systems, Wolfson. B.B.A., University of Puerto Rico-Rio Piedras; M.S., Nova Southeastern University.
- GLENN, EDWARD J., Associate Professor Sr., English and Communication, North. B.A., M.A., Florida International University.
- GLUSKOTER, CARA R., Assistant Professor, Social Science, North. B.A., Arizona State University; M.A., University of Miami.
- GOICOECHEA-PAPPAS, MARTA E., Professor, Chemistry/Physics, Kendall. A.A., Miami Dade College; B.S., Florida International University; D.A., University of Miami.
- GOLDSTEIN, ADRIENNE, *Professor, Mathematics, Kendall.* B.S., S.U.N.Y. at Stony Brook; M.S., C.U.N.Y.Lehman College.
- GOLDSTON, FLOR DE MARIA, Assistant Professor, Nursing, Medical Center. A.A., Miami Dade College.
- GONZALEZ SR., BELARMINO, Associate Professor, Mathematics, Wolfson. B.S., Ph.D., Universidad de Oriente.
- GONZALEZ, ARIEL P., Associate Professor Sr., English and Communication, Wolfson. A.A., Miami Dade College; B.A., University of Florida; M.A., Barry University.
- GONZALEZ, CARLOS, Associate Professor Sr., Communication Arts, InterAmerican. B.S., Florida International University; M.A., University of Miami Miami Dade College Alumni Association Endowed Teaching Chair 2004-2006.
- GONZALEZ, DAVID R., Assistant Professor, Massage Therapy, Medical Center. B.S., Florida International University.
- GONZALEZ, ILEANA A., *Professor, E.S.L./Foreign Languages, Wolfson.* B.A., St.Thomas University; M.S., Nova Southeastern University.
- GONZALEZ, LOURDES M., Associate Professor, Mathematics, InterAmerican. B.S., Jozsef Attila Univ.; Ph.D., University of Miskolc.
- GONZALEZ, SERGIO, Assistant Professor, Fine and Applied-Arts, Hialeab. M.M., Ph.D., University of Miami.
- GOODALL, ELEANOR E., Professor, Radiologic Sciences, Medical Center A.S., Miami Dade College; B.A., Florida International University.
- GOODWIN, WENDY J., *Instructor, College Prep, Homestead.* A.A., Miami Dade College; B.A., Florida International University; M.A., University of North Carolina-Wilmington.
- GORDON, JURIST M., *Instructor, Biology, Health, Wellness, North.* B.S., Florida International University; M.S., University of West Indies.
- GOTTLIEB, DORMA J., Professor, Chemistry/Physics, Kendall. B.S., M.S., Ph.D., University of Tennessee.
- GRANT JR., SAMUEL B., Assistant Professor, School of Entertainment and Design Technologies, North. B.A., Florida State University.
- GRAY, ANDREW, Associate Professor Sr., Architecture, Kendall. B.Arch., University of Florida; M.S., Georgia Institute of Technology.
- GRECO, EUGENE, *Professor, Music, Kendall.* B.A., Union College; M.M., Ithaca College; M.S., S.U.N.Y. at Albany; Ph.D., University of Miami.
- GREENBERG, LIZA A., Assistant Professor, College Prep, InterAmerican. B.A., Southern Illinois University-Carbondale; M.A., University of New Mexico.

- GREGORY, DIANN S., Professor, Midwifery, Medical Center. B.S., Madonna University; M.S.Ed., Florida International University. The Miami-Dade Community College -Alumni Endowed Teaching Chair 1996-1998. The Stanley G. Tate and Family Endowed Teaching Chair 2000-2002. Henry F. Raattama, Jr. Endowed Teaching Chair Award 2004-2006.
- GRIFFITHS, ROBERT E., Assistant Professor, Mathematics, Kendall. B.S., M.A., University of Miami.
- GRIMES, MICHAEL D., *Professor, School of Justice, North.* B.L.S., Bowling Green State University; M.S., St. Thomas University.
- GRIMES, VELLISSE P., Assistant Professor, Social Science, Kendall. B.S., Florida State University; M.S., Nova Southeastern University.
- GROOMES, MARLENE M., Professor, Social Science, Homestead. B.A., S.U.N.Y. at Stony Brook; M.A., Liberty University; Ed.D., Nova Southeastern University. The First Union Bank Endowed Teaching Chair 2000-2002.
- GROSECLOSE, CAROL A., *Professor, Biology, Health and Wellness, North.* A.A., Miami Dade College; B.S., M.S., Florida International University.
- GUERRERO, MARIA A., Assistant Professor, Biological Science-Arts and Science, InterAmerican. B.S., Universidad de Guayaquil; M.S., Ph.D., Florida International University.
- GUILLEN, GUILLERMO J., *Instructor, Mathematics, Wolfson.* B.S., M.S., Florida International University.
- GUTIERREZ-BENJAMIN, CARIDAD I., Assistant Professor, Health Occupation/Histotechnology, Medical Center. A.A., A.S., Miami Dade College; B.S., Barry University; M.A., University of Phoenix.
- HACH JR., ROBERT O., Associate Professor Sr., English and Communication, North. B.A., University of Florida; M.A., Barry University.
- HAIGHT, GARY T., *Professor, Biology, Homestead.* B.S., Siena College; M.A., College of St. Rose.
- HAMMACK, BONNIE, Professor, Nursing, Medical Center. A.A., Broward Community College; B.S.N., M.S.N., University of Florida. Robert Russell Memorial Foundation Endowed Teaching Chair 2001-2003. The Jane and Van Myers Endowed Teaching Chair 2005-2007.
- HAMMOND, PEGGY, Assistant Professor, Nursing, Medical Center. A.S., Miami Dade College; B.S., University of Miami; M.S., Barry University.
- HANNA, STEPHANIE, Assistant Professor, Nursing, Medical Center. B.S.N., M.S.N., Barry University.
- HARGIS, EDDIE D., Professor, School of Justice, Kendall. B.S., J.D., University of Arkansas.
- HART, GEORGINA C., Professor, Chemistry/Physics, Kendall. B.S., Inter American University of Puerto Rico-San German; Ph.D., University of Miami.
- HARTMAN, SHERYL M., Professor, Social Science, North. B.A., S.U.N.Y. at Stony Brook; M.A., S.U.N.Y. College at Plattsburgh; Ph.D., University of Miami. The Ruth B. and Jack Kassewitz Endowed Teaching Chair 1995-1997. The Peter Masiko Endowed Teaching Chair 2000-2002. Dr. Eduardo Padron Endowed Teaching Chair 2006-2008.
- HAUSER, BYRON C., Professor, E.S.L./Foreign Languages, Kendall. B.A., University of Maryland-College Park; M.A., Ph.D., University of Miami.
- HAWKINS, KAREN H., Professor, Business Administration, Kendall. A.A., B.S., M.B.A., Florida State University; Ph.D., University of Miami. Friends of Kendall Campus School of Business Endowed Teaching Chair 2001-2003.

- HAWKS, GAIL A., Professor, Business Administration, Kendall. B.S., Ashland University; M.A., Ph.D., Ohio University. The Rotary Club of Miami Endowed Teaching Chair in Honor of G.H. "Buck" Ashmore 1993-1995. The Carlos Arboleya/Nations Bank Endowed Teaching Chair in Banking and Business 2000-2002.
- HENDRIX, NORA H., *Professor, Social Science, North.* B.A., Ed.S., M.Ed., University of Florida; Ph.D., University of Miami.
- HERNANDEZ, ANA B., Associate Professor, English and Communication, Wolfson. A.A., Miami Dade College; B.S., M.S., Florida State University. The Kiwanis of Little Havana Foundation Endowed Teaching Chair 2006-2008.
- HERSH, SANDRA L., *Professor, Biology, Health and Wellness, Kendall.* B.S., M.S., Ph.D., University of Miami
- HESS, JEFFREY S., Associate Professor, Fine and Applied-Art-Theatre, NWSA. B.M., M.M., Butler University.
- HETTICH, MICHAEL F., Professor, English and Communication, Wolfson. B.A., Hobart and William Smith Colleges; M.A., University of Denver; Ph.D., University of Miami. The Mac Smith Endowed Teaching Chair 1996-1998.
- HIME, LAURIE H., *Professor, Library, Kendall.* B.S., Mississippi College; M.S., Florida State University.
- HIPPLE, DENNIS L., Professor, Chemistry/Physics, Kendall. B.S., Kent State University; M.S., Miami University-Oxford.
- HOCHMAN, RICHARD D., Assistant Professor, Mathematics, North. A.A., Miami Dade College; B.A., University of Florida; M.S., Florida Atlantic University; Ph.D., Florida State University.
- HORTENSI, JOSE L., Assistant Professor, Business, Homestead. B.Acc., M.Acc., Florida International University.
- HOSPITAL, MARIA C., Professor, English, Kendall. A.A., B.A., M.A., University of Florida. The Gerrits Construction Company Endowed Teaching Chair 1996-1998. The Northern Trust Bank of Florida Endowed Teaching Chair 2003-2005.
- HOWARD, LIONEL S., Professor, Computer Information Systems, North. B.S., Barry University; B.S., City University of New York-C.U.N.Y.; M.B.A., Columbia University; M.A., New York University; M.S., Pratt Institute.
- HUANG, WINNIE S., Professor, Library Administration, Wolfson. B.A., Providence College; M.L.S., University of Pittsburgh.
- IBBERSON, AMY K., Assistant Professor, Arts and Philosophy, Wolfson. B.A., Florida Southern College; M.M., Arizona State University.
- INSUA-AUAIS, MAYTE, Associate Professor, Social Science, North. B.A., University of Miami; M.S., D.Psy., Carlos Albizu University, Miami Campus.
- ISERN, KELLY J., Associate Professor, E.A.P./Foreign Languages, North. B.A., University of Alabama -Birmingham; M.S., Auburn University.
- IZQUIERDO, RENE C., Professor, E.S.L./Foreign Languages, Kendall. B.A., M.A., C.U.N.Y.Queens College; M.Phil., Ph.D., City University of New York Graduate Center. The Mitchell Wolfson, Jr. Endowed Teaching Chair 2005-2007.
- JAMIL, SABRINA B., Instructor, Arts and Philosophy, Wolfson. B.A., M.A., Florida State University. IFANMARY ALYSSA A. Instructor Chemistry/Phys.
- JEAN-MARY, ALYSSA A., Instructor, Chemistry/Physics, Kendall. B.S., M.S., University of Miami.

- JOHANN, EILEEN D., Professor, Chemistry/Physics, Kendall. B.S., Ph.D., University of Miami. The M. Anthony Burns Ryder System Endowed Teaching Chair 1993-1995. The Frances Louise Wolfson Family Foundation Endowed Teaching Chair 1996-1998. The Phillip Morris Endowed Teaching Chair in Agriculture and The Natural Sciences 1999-2001. The Phillip Morris Endowed Teaching Chair in Agriculture and Natural Science 2003-2005.
- JOHNSON, MORRIS, Professor, Social Science, North. B.A., George Washington University; M.A., Syracuse University; Ph.D., Howard University. Evan G. Coe and Rose Marie Coe Endowed Teaching Chair in History or Political Science 2003-2005.
- JORGE, MARILYN, Associate Professor Sr., E.S.L./ Foreign Languages, InterAmerican. B.S., M.EA., University of Miami; M.A., New York University.
- JORGE, ROBERT M., Assistant Professor, Emergency Medical Services, Medical Center. A.S., Miami Dade College.
- JOY, BARBARA F., Instructor, Library, Kendall. B.A., Augustana College; M.S., University of Illinois-Urbana-Champaign.
- KALAM, ZULFIKAR D., *Instructor, School of Justice, North.* M.B.A., Nova Southeastern University.
- KALDOR, MICHAEL, Professor, Natural Science, Wolfson. B.S., Tulane University of Louisiana; M.S., S.U.N.Y. College at Buffalo. The Reverend Glenn C. James Endowed Teaching Chair 1995-1997
- KARAYALCIN, ECE F., Professor, School of Entertainment and Design Technologies, North. B.A., C.U.N.Y.Lehman College; M.A., University of Miami. The Southeast Banking Corporation Foundation Endowed Teaching Chair 2003-2005.
- KASS, SUSAN H., Professor, Dental Hygiene, Medical Center. B.S., University of North Carolina; M.Ed., University of Miami; Ed.D., Florida International University. The Robert Russell Memorial Foundation Endowed Teaching Chair 1992-1994. The John O'Neil, Jr. Endowed Teaching Chair 1997-1999. The John O'Neil Jr. Endowed Teaching Chair in Nursing and Related Health Careers 2006-2008.
- KATES, HAZEL H., Professor, Computer Information Systems, Kendall. B.S., University of Florida; M.B.E., Georgia State University.
- KAUFMAN, RICHARD S., *Professor, College Prep-Esl, Hialeab.* B.A., S.U.N.Y. at Binghamton; M.S., S.U.N.Y. at Albany.
- KEANE, ELIANE, Assistant Professor, Mathematics, North. Ph.D., New York University.
- KEELER, DEBORAH J., Professor, Library, Nortb. B.A., University of North Carolina-Greensboro; M.S., Florida State University; M.S., Simmons College: Ed.D., Florida International University.
- KENNEDY, KELLY K., Associate Professor Sr., E.A.P./ Foreign Languages, North. A.A., Miami Dade College; B.A., Florida International University; M.S., Nova Southeastern University. Peter Masiko, Jr./Miami Jai Alai Endowed Teaching Chair 2001-2003.
- KENNY, EMILIO A., Associate Professor, Biology, Health and Wellness, North. B.S., Universidad de Panama; M.S., Northeastern University; Ph.D., University of Puerto Rico-Rio Piedras.
- KENTON, FAITH T., Assistant Professor, Nursing, Medical Center. B.S.N., M.S., Florida Atlantic University.
- KERR, PAULINE A., Assistant Professor, Nursing, Medical Center. A.A., A.S., Miami Dade College; B.S.N., M.S.N., Florida International University.

- KILPATRICK, RENEE V., Associate Professor, College Prep, InterAmerican. B.A., Albany State University; M.S., Nova Southeastern University.
- KINNAIRD, EUGENE C., Instructor, Computer Information Systems, Wolfson. B.A., Southern Methodist University; M.S., Florida International University.
- KITNER, JON D., Professor, Arts and Philosophy, North. B.F.A., M.A., Kent State University. The Arthur Hertz Endowed Teaching Chair 1994-1996. The Simon Bolivar Endowed Teaching Chair 2000-2002.
- KNAPP, MORRIS, Professor, Business, Wolfson. B.A., Yale University; M.A., University of Pennsylvania; M.B.A., Teachers College, Columbia University; Ph.D., Nova Southeastern University. The Republic National Bank of Miami Endowed Teaching Chair in Business and Finance 2006-2008.
- KNEPPER, MARIE L., Assistant Professor, Communication Arts, Kendall. B.A., University of Denver; M.A., University of Illinois-Chicago.
- KOLESAR, ROSALIE M., Assistant Professor, E.S.L./ Foreign Languages, InterAmerican. B.S., M.A., Penn State University.
- KOSTOVICH, JOHN J., Assistant Professor, Letters, Hialeab. A.B., University of Illinois-Chicago; A.M., University of Illinois-Urbana-Champaign.
- KOTLER, LORNE, *Professor, English, Kendall.* B.A., M.A., University of Miami.
- KOZLOSKI, WALTER H., Assistant Professor, E.A.P./ Foreign Languages, North. B.A., Lehigh University; Ed.M., Temple University.
- KRECH, CAROL D., Professor, E.S.L./Foreign Languages, Wolfson. B.A., Eckerd College; M.S., University of Miami; M.A., Florida International University.
- KREIDER, ANTHONY J., Assistant Professor, English, Homestead. M.A., Ph.D., University of Miami.
- KRONEN, STEVE, *Instructor, Library, Kendall.* M.A., University of Florida; M.EA., Warren Wilson College.
- KUENTZEL, PETER E., Professor, Arts and Philosophy, Kendall. A.A., Bakersfield College; B.A., University of Iowa; M.F.A., Claremont Graduate University.
- KWIAT, DAVID M., Professor, Fine and Applied-Art-Theatre, NWSA. B.A., University of Minnesota-Duluth; M.F.A., Florida State University. The Peter Masiko/Miami Jai Alai Endowed Teaching Chair 1996-1998.
- LABISTE, LUIS A., Assistant Professor, Biology, Health and Wellness, North. Ph.D., Universidad Central del Este.
- LAGUE, VICTORIA C., Associate Professor Sr., English, Kendall. A.A., Community College of Rhode Island; B.A., Brown University; M.A., Rhode Island College. The Rosenberg, McIntosh, Leigh Endowed Teaching Chair 2002-2004.
- LAGUERRE, JOSELLE L., Associate Professor, English, Homestead. B.A., Atlantic Union College; M.A., Andrews University.
- LAMARRE, MAGDALENA, Professor, Social Science, Homestead. A.A., C.U.N.YKingsborough Community College; B.A., C.U.N.YHunter College; M.A., S.U.N.Y. at Stony Brook.
- LAMAZARES, IVONNE M., Assistant Professor, Letters-English, Hialeah. B.A., Barry University, M.S., Florida International University; Ed.D., University of Miami. The Janet Reno Endowed Teaching Chair 1995-1997.
- LAMMEY, MELISSA B., Instructor, Letters-Arts/Philosophy, Hialeah. B.A., University of Mississippi; M.A., Florida State University.

- LANE, PHILIP J., Associate Professor Sr., English and Communication, Wolfson. A.A., Miami Dade College; B.S., Florida International University; M.A., University of Southern California.
- LARES, HENRY E., Assistant Professor, Architecture, North. B.A., Florida International University; M.A., Texas A&M University.
- LASHLEY, LEROY L., Professor, English, Kendall. M.S., Northwestern University; B.A., Ph.D., Howard University.
- LASSITER, PATRICIA E, Professor, Health Occupation, Medical Center. B.F.A., Michigan State University; M.B.A., St. Thomas University; Ed.S., University of Miami.
- LEAL, ADRIA B., *Instructor, Library Administration, Wolfson.* B.A., St. Thomas University; M.A., University of South Florida.
- LEBON, RENEE C., Assistant Professor, L.P.N., Medical Center B.S.N., Florida International University.
- LEBRON, DAVID, *Instructor, Computer Information Systems, Wolfson.* B.S., University of The Sacred Heart; M.S., Nova Southeastern University.
- LEE, KENNETH, Associate Professor, Physical Therapy Assistant, Medical Center. B.S., Florida International University; M.A., Nova Southeastern University. The Robert Russell Memorial Foundation Endowed Teaching Chair.
- LEFF, BENNETT, Associate Professor, E.S.L./Foreign Languages, InterAmerican. A.A., San Francisco Community College; B.A., San Francisco State University; M.S., Florida International University
- LEGRAND, JOCELYNE, Professor, Student Life, Wolfson. B.A., M.A., University of Miami.
- LEITCH, PATRICK, *Instructor, English, Kendall.* B.A., Olivet College; M.A., Middlebury College.
- LENAGHAN, MICHAEL J., Professor, Social Science, North. B.S., M.A., Georgetown University; Ed.D., Virginia Polytechnic Institute and State University. The Anastasios and Maria Kyriakides Endowed Teaching Chair 2002-2004. Mardee Jenrette Endowed Teaching Chair of Excellence 2006-2008.
- LENEL, ALBERT W., Assistant Professor, Philosophy, InterAmerican. B.A., Syracuse University; M.A., University of Miami.
- LEVER DUFFY, JUDY, *Professor, CIS, Homestead.* B.A., Florida Atlantic University; M.S., Ed.D., Nova Southeastern University. The John S. and James L. Knight Foundation Endowed Teaching Chair 1998-2000.
- LEWIS, SAMANTHA L., Instructor, School of Justice, North. B.A., Florida State University; M.S., University of Central Florida.
- LIANG, KAIYANG, Professor, Computer Information Systems, Kendall. M.S., Ph.D., University of Miami.
- LICHTMAN, ERIC T., *Professor, English, Kendall.*B.A., M.A.T., University of California-Berkeley.
 The Mac Smith Chair in Environmental Ethics
 Endowed Teaching Chair 2002-2004.
- LINK, RONALD W., *Professor, English, Kendall.* B.A., University of Chicago; M.A., Ph.D., University of Miami.
- LIPOF, IRENE S., Professor, Psychology, Wolfson. A.A., Miami Dade College; M.A., California State University-Long Beach; B.S., Ed.S., Ed.D., Florida Atlantic University. The City of Miami Police Department Endowed Teaching Chair in Social Sciences 1999-2001. The Dade Community Foundation Endowed Teaching Chair 2003-2005. The Daniel Gill Endowed Teaching Chair 2008-2011.
- LIU, NANCY H., Assistant Professor, Mathematics, Kendall. A.A., Miami Dade College; B.S., M.S., Florida International University.
- LOCKSHIN, LINDA F., Associate Professor Sr., Nursing, Medical Center. B.S.N., M.S.N., Florida International University.
- LOFTUS, JACQUELYN C., *Instructor, Arts and Science, InterAmerican.* M.A., Florida State University.

- LOMBARD, TIINA A., Associate Professor Sr., English and Communication, North. B.A., M.A., Florida Atlantic University.
- LONDON, PETER S., Associate Professor, Fine and Apld-Art-Dance, NWSA. D.P., The Juilliard School; B.F.A., University of Florida.
- LOPES DE MELLO, MARCIA M., Assistant Professor, Architecture, Kendall. B.Arch., Universidade MacKenzie; M.Arch., University of Miami.
- LOPEZ, ENCARNACION, Professor, Natural Science, Wolfson. B.S., Pontifical Catholic University of Puerto Rico; Ph.D., University of Miami.
- LOPEZ, FELIX A., Assistant Professor, Computer Information Systems, North. B.B.A., M.S., Florida International University.
- LOPEZ, ISABEL S., Instructor, Occupational Education, InterAmerican. B.B.A., University of Miami; M.Acc., Florida International University.
- LOPEZ, LUIS A., Professor, Social Science, Wolfson. B.A., University of Miami; B.S., Florida International University; M.A., University of Pittsburgh. The City of Miami Police Department Endowed Teaching Chair 2005-2007.
- LOPEZ, MARTA E., Assistant Professor, Vocational-Health Occupations-Medical Assisting, Medical Center. D.M.Ed., Universidad Central del Este.
- LOPEZ-CALLEJA, JOSE A., Assistant Professor, Occupational Education, InterAmerican. B.S., University of Miami; M.A., Florida International University.
- LORENZO, DAGOBERTO, Associate Professor, College Prep, North. A.A., Miami Dade College; B.A., Florida International University; M.S., Nova Southeastern University.
- LORENZO, MIRIAM, Professor, School of Justice, North. B.A., M.S., S.U.N.Y. at Albany. The Janet Reno Chair in Criminal Justice Endowed Teaching Chair 2002-2004.
- LOVE DUBE, LINDA L., *Instructor, Mathematics, Wolfson.* B.S., Louisiana State University and A. and M.; M.S., Purdue University.
- LUJAN, YVETTE L., Assistant Professor, Communication Arts, InterAmerican. B.A., M.A., Emerson College.
- LUNA, ROY, *Professor, E.S.L./Foreign Languages*, *Wolfson.* B.A., M.A., University of Miami.
- LUND, AMY K., Assistant Professor, Arts and Philosophy, Kendall. B.A., Trinity University; M.A., Ph.D., University of New Mexico.
- LUNDAHL, JENNIE L., Associate Professor, English and Communication, North. A.A., Miami Dade College; B.S., M.S., Florida International University.

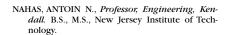


- MACHADO, EDUARDO F, *Associate Professor, English, Kendall.* A.A., Miami Dade College; B.A., M.A., University of South Florida.
- MADAN, NILIA M., Associate Professor Sr., Medical Laboratory Technology, Medical Center. A.A., Miami Dade College; B.S., Florida International University; M.B.A., Nova Southeastern University.
- MADDEN JR., WILLIAM L., Associate Professor Sr., School of Entertainment and Design Technologies, North. B.S., M.Ed., University of Pittsburgh.
- MAĞELLAN, MARTA E., Professor, English, Kendall. A.A., Miami Dade College; B.A., M.A., University of Florida. Bonnie McCabe Endowed Teaching Chair 2001-2003. The Blockbuster Entertainment Endowed Teaching Chair 2005-2007.
- MANCEBO, LILLIAN E., Assistant Professor, Dental Hygiene, Medical Center. A.A., A.S., Miami Dade College; B.H.S., Florida International University; M.S., Nova Southeastern University.

- MANSILLA, JAMES J., Assistant Professor, Biology, Health and Wellness, North. A.A., Miami Dade College; B.A., University of Toledo; M.S., United States Sports Academy.
- MARI, MARIA C., Professor, Business Administration, Kendall. A.A., Miami Dade College; B.A., B.B.A., M.S., Florida International University. The Carlos Arboleya/Barnett Bank Endowed Teaching Chair 1995-1997. John A. and Elizabeth Rode Endowed Teaching Chair 2004-2006. The Louis Wolfson III Endowed Teaching Chair 2008-2011.
- MARIN, HERNANDO, Associate Professor, Letters, Hialeab. B.A., M.A., Montclair State University.
- MARINAS, ISABEL M., Associate Professor Sr., Mathematics, Wolfson. B.A., M.S., University of Miami
- MARRERO, MARITZA, Assistant Professor, Distribtv-Hospitality-W/C, Wolfson. A.A., Broward Community College; B.S., M.S., Florida International University.
- MARTI, NOEL, Assistant Professor, Emergency Medical Services, Medical Center. A.S., Miami Dade College; B.P.A., Barry University.
- MARTIN, LUIS R., Assistant Professor, Mathematics, North. B.S., Universidad de la Habana.
- MARTIN, RENE A., *Professor, English, Kendall.* B.A., M.A., Howard University.
- MARTINEZ-CANAS, ROSARIO, *Instructor, Fine and Applied-Visual Arts, NWSA.* B.A., Loyola University New Orleans; M.F.A., Miami International University of Art and Design.
- MASER, DONALD M., Associate Professor Sr., Natural Sciences, Wolfson. B.A., Rutgers University; M.A., Rowan University. Rotary Club Endowed Teaching Chair of Exec in Honor of G.H. "Buck" Ashmore 2003-2005.
- MASI, ANNMARIE, Associate Professor, Education, Kendall. B.A., Ed.S., M.Ed., Florida Atlantic University.
- MASS, COREY, Professor, E.S.L./Foreign Languages, Wolfson. B.A., C.U.N.YBrooklyn College; M.A., University of Kansas.
- MASSIMINI, NICOLAS, Assistant Professor, Physician Assistant, Medical Center A.S., Universidad de Buenos Aires; B.S., Escuela Nacional Normal Superior de Profesores Marianoacosta; M.D., Universidad Central del Este.
- MAST, JANICE H., *Professor, Social Science, North.*B.A., Converse College; M.Ed., University of Florida.
- MATAS, ADRIANA, Professor, Mathematics, Inter-American. B.A., University of Puerto Rico-Rio Piedras; M.A., University of Miami. The Bellsouth II Endowed Teaching Chair 2002-2004.
- MATHEWS, ROBERT A., Instructor, College Prep, North. A.A., Sandhills Community College; B.A., St. Andrews Presbyterian College; M.A., Appalachian State University.
- MATHON, BERNARD F., Associate Professor, Mathematics, Wolfson. B.A., Barry University; M.S.Ed., University of Miami.
- MATTOX, KAREN, Professor, Dental Hygiene, Medical Center. B.S., West Virginia University; M.S., Columbia University. The Daniel K. Gill Endowed Teaching Chair 1995-1997.
- MAXWELL, MARYJANE G., Associate Professor, English and Communication, Wolfson. M.A., Florida Atlantic University.
- MCCARTHY, MAUREEN J., Assistant Professor, E.S.L/Foreign Languages, Wolfson. B.A., B.S., S.U.N.Y. at Buffalo; M.S., Florida International University.
- MCCRAY, DEBORAH A., Assistant Professor, Phlebotomy, Medical Center. B.S., Tuskegee University; M.S., Florida International University.
- MCGAULEY, MICHAEL G., Instructor, Chemistry/ Physics, Kendall. B.S., University of California-San Diego; M.S., University of Miami.
- MCGRATH, ROBERT G., Instructor, College Prep, Kendall. B.A., Stockton State College; M.A., University of Miami.

- MCGUIRK, DAVID G., Assistant Professor, English, Kendall. B.A., S.U.N.Y. College at Oneonta; M.A., Ph.D., Florida International University.
- MCKINNEY, CURTIS R., Associate Professor, Chemistry/Physics/Earth Science, North. B.S., Florida State University; M.S., University of Florida; Ph.D., Southern Methodist University.
- MCKNIGHTSAMMS, EULETT P., Associate Professor Sr, E.A.P./Foreign Languages, North. B.A., University of West Indies; M.Ed., Prairie View A&M University.
- MCLAUGHLIN, JOAN H., Associate Professor Sr., Medical Laboratory Technology, Medical Center. B.S., Howard University; M.S., University of Maryland-Baltimore County.
- MCMILLAN, LOTTIE T., Associate Professor, Student Services, North. B.S., Rust College; M.Ed., Alabama A. and M.
- MCNAIR, JOSEPH D., Associate Professor Sr., Education, North. B.A., Gonzaga University, M.Ed., Antioch University. The Mitchell Wolfson, Jr. Endowed Teaching Chair 1997-1999. Vitas Innovative Hospice Care Endowed Teaching Chair 2006-2008.
- MEDERO, ILIDA M., Associate Professor, Health and Wellness, Wolfson. A.A., Miami Dade College; B.S.Ed., M.S.Ed., University of Miami.
- MEDINA, MERCEDES, Assistant Professor, The Law Center, Wolfson. B.A., S.U.N.Y. College at Plattsburgh; J.D., Fordham University.
- MEDINA-CABRAL, MYRA M., Professor, E.A.P./Foreign Languages, North. B.A., M.Ed., Rhode Island College. American Express Endowed Teaching Chair 2001-2003.
- MELENDEZ, BEATRIZ I., Assistant Professor, Physical Therapy Assistant, Medical Center. B.S.Ed., University of Miami; M.S., Florida International University.
- MELLO, DEBORAH C., *Instructor, Communication*Arts, Kendall. A.A., Miami Dade College; B.F.A.,
 M.F.A., Florida Atlantic University.
- MENENDEZ, MARTA P., Assistant Professor, E.A.P./ Foreign Languages, North. B.L.S.T., Barry University: M.S., Florida International University.
- MERVES, ARLENE, *Professor, Library, North.* B.A., McGill University; M.L.S., Dalhousie University.
- MERVES, DAVID, *Professor, English and Communication, North.* B.A., M.A., Ohio State University.
- MEYER JR., LAWRENCE E., Instructor, Computer Information Systems, Kendall. B.S., Florida State University; M.S., Florida International University.
- MEZA, ALBERTO, Professor, Arts and Philosophy, Kendall. M.F.A., Northern Illinois University; B.A., M.A., Syracuse University. The Citibank of Florida Endowed Teaching Chair 1998-2000. The Frances Wolfson Endowed Teaching Chair, Excellence in Arts 2003-2005. The Bonnie Mc-Cabe Endowed Teaching Chair in Humanities 2008-2011.
- MICHEL, ROBERT A., Professor, E.S.L/Foreign Languages, InterAmerican. B.A., M.A., C.U.N.Y. Queens College; M.Phil., Ph.D., City University of New York-C.U.N.Y..
- MIGLIACCIO, CHRISTOPHER P., *Professor, Natural Science, Wolfson*. B.S., University of Miami; M.S., Florida International University. Louis Wolfson III Endowed Teaching Chair 2001-2003.
- MIGNONE, SUZANNE, Assistant Professor, Social Science, Kendall. B.A., University of Central Florida; Ph.D., Nova Southeastern University.
- MIGUEZ, RAMON, Associate Professor Sr., E.S.L./ Foreign Languages, InterAmerican. A.A., A.S., Miami Dade College; B.S., Florida International University; M.S., Nova Southeastern University.
- MILLER, CONSTANCE H., Associate Professor Sr., Nursing, Medical Center. B.S.N., M.S.N., Barry University.
- MILLER, JANET L., Associate Professor Sr., E.S.L./ Foreign Languages, Kendall. B.A., Manchester College; M.S., Florida International University.

- MILLER, RODNEY N., Associate Professor, Fine and Apld-Art-Music, NWSA. M.M., University of Illinois-Urbana-Champaign.
- MIRANDA, JEFFREY M., Assistant Professor, College Prep, Homestead. A.A., Miami Dade College; B.A., Florida International University; M.S., University of Miami.
- MITCHELL LEVY, JEMIMAH K., Assistant Professor, Nursing, Medical Center. A.A., Miami Dade College; B.S.N., Florida A. and M. University; M.S.N., Florida International University.
- MITCHELL, CRISTI, *Professor, E.S.L./Foreign Languages, Kendall.* B.A., M.A., California State University-Long Beach; Ed.D., University of Miami.
- MOFFETT, DEBORAH H., Associate Professor Sr., Biology, Health and Wellness, Kendall. A.A., Miami Dade College; B.S., Florida International University; M.S., Nova Southeastern University.
- MOLINA, AMNEL, *Instructor, Arts and Philosophy, North.* B.A., M.A., University of Miami.
- MOLINA, LOUIS, Associate Professor Sr., English, Kendall. B.A., Florida International University; M.A., Barry University.
- MONCK, PETER R., Assistant Professor, College Prep, Kendall. B.A., C.U.N.Y-Brooklyn College; M.A., New York University.
- MONT, MERCEDES, Assistant Professor, Letters, Hialeab. B.A., C.U.N.Y.Hunter College; M.A., University of London.
- MONTANEZ, MIGUEL A., Assistant Professor, Mathematics, Wolfson. B.S., University of Puerto Rico-Humacao University College; M.B.A., Northern Illinois University: M.S., Purdue University.
- MONTERRUBIO, NANCY, Associate Professor Sr., E.S.L/Foreign Languages, Kendall. B.A., University of Notre Dame; M.S., Florida International University.
- MOORE, DAVID B., Assistant Professor, Biology, Health and Wellness, Kendall. A.S., Roane State Community College; B.S., M.S., Middle Tennessee State University.
- MOORE, ROBERT B., Associate Professor Sr., College Prep, Wolfson. B.A., M.A., Northeastern Illinois University.
- MOORMAN, ROBERT B., Professor, Social Science, North. A.A., Miami Dade College; B.A., M.A., University of The Americas. The Dade Community Foundation Endowed Teaching Chair 1993-1995. The Evan G. and Rose Marie Coe Endowed Teaching Chair 1996-1998.
- MOOTRY,TRACY D., Assistant Professor, Dental Hygiene, Medical Center. A.A.S., Erie Community College City Campus.
- MORALES, MARLENE, Assistant Professor, Education, Interamerican. B.S., Florida International University; M.S., Florida State University; Ed.S., Nova Southeastern University.
- MORATA, JUAN M., *Instructor, Natural Sciences, Wolfson.* B.S., M.S., Montclair State University.
- MOSS, KAREN A., Assistant Professor, Veterinary Technology, Medical Center. A.A., St. Petersburg Junior College.
- MOSS, LAKISHA D., Assistant Professor, Dental Hygiene, Medical Center. A.A., A.S., Miami Dade College.
- MUNOZ, SERVANDO, *Professor, Chemistry/Physics, Kendall.* B.S., Florida International University; M.S., Ph.D., University of Florida.
- MYERS, SUSAN J., Associate Professor Sr., Dietetic Technology and Nutrition, Wolfson. B.S., Miami University; M.S., Florida State University; M.S.M., Florida International University.



- NAIR, MEERA K., Associate Professor, Biology, Health and Wellness, Kendall. M.S., Kerala Agricultural University; Ph.D., Florida International University.
- NANIA, MARGARET L., *Instructor, Fine and Apld-Arts, Homestead.* B.A., M.A., California State University-Northridge.
- NATION, PATRICIA A., *Professor, E.S.L./Foreign Languages, Wolfson.* B.A., Stetson University; M.S., Florida International University.
- NEUNDER, MARK F., Associate Professor, Arts and Philosophy, Kendall. B.A., Wittenberg University; M.A., Ph.D., University of Miami.
- NGIM, ALAN G., Associate Professor, Arts and Pbilosophy, Wolfson. B.A., B.S., University of California-Santa Barbara; M.M., Northwestern University; D.M.A., University of Miami.
- NGUYEN, HIEN M., *Instructor, Computer Informa*tion Systems, North. A.A., Miami Dade College; B.S., M.S., Florida International University.
- NGUYEN, THUCDOAN T., *Instructor, Mathematics, Wolfson.* B.A., M.A., University of South Florida.
- NICKERSON, ROY, Associate Professor, English, Kendall. B.A., Wesleyan University; M.Ed., Harvard University.
- NICOLI-SUCO, ELIZABETH, Associate Professor, Mathematics, Wolfson. B.A., M.A., University of Miami. The Simon Bolivar Endowed Teaching Chair 2006-2008.
- NILES, JENNIFFER C., Assistant Professor, English and Communication, North. A.A., Miami Dade College; B.A., Florida International University; M.S., Nova Southeastern University.
- NOBLE III, F. DORSET, Associate Professor, Fine and Applied-Art-Theatre, NWSA. B.A., Auburn University.
- NOBLE, ANDREW R., *Professor, Fine and Applied-Art-Theatre, NWSA.* D.P., East 15 Acting School; A.A., University of Birmingham.
- NORONHA-NIMMO, ALDA, Associate Professor, College Prep, North. B.S.S.E., M.S.E., M.S.R.E., Florida International University.
- NOWLAND, ANNE E., Associate Professor Sr., CIS, Homestead. A.A., Miami Dade College; A.A., B.A., Marymount University; M.S., Barry University.
- O'HARA, MAUREEN, *Professor, E.S.L./Foreign Languages, Wolfson.* B.A., Marymount College; M.A., Florida Atlantic University. The Southern Bell Endowed Teaching Chair 1995-1997.
- O'REILLY, ARAMIS P., Associate Professor, Fine and Applied-Visual Arts, NWSA. B.F.A., M.F.A., Florida International University.
- OBESO, JORGE L., Associate Professor, Biology, Health and Wellness, North. B.S., University of Puerto Rico-Rio Piedras; M.S., Ph.D., University of Wisconsin-Madison.
- OBREGON, LUCIA, *Instructor, Education, Kendall.* M.Ed., Loyola University of Chicago.
- ODOH, MC-CHESTER O., Associate Professor, Computer Information Systems, Wolfson. B.A., St. Leo University; M.S., Ph.D., Nova Southeastern University.
- OKAFOR, VICTOR, Associate Professor, Physical Sciences, InterAmerican. Ph.D., University of Witwatersrand.
- OKUNGBOWA, JOE, Professor, Biology, Health and Wellness, North. B.S., University of Benin; Ph.D., University of Glasgow.
- OLIVER, BILLY M., Assistant Professor, School of Entertainment and Design Technologies, North. B.A., M.A., Auburn University.
- OLSEN, NEIL S., *Instructor, English and Commu*nication, North. B.A., M.A., San Francisco State University.

- ORLIN, SUSAN L., *Professor, E.A.P./Foreign Languages, North.* B.S., M.A., Ohio State University.
- OROZCO, SYLVIA H., *Instructor, College Prep, Kend*all. A.A., Miami Dade College; M.A.S., University of Miami
- ORR, DONALD W., Associate Professor Sr., Mathematics, Kendall. B.A., M.S., University of Wyoming.
- ORRO, MARGARITA, Assistant Professor, E.A.P./ Foreign Languages, North. B.A., M.A., Ph.D., C.U.N.Y-Queens College.
- ORTA, JOSE A., Assistant Professor, Chemistry/ Physics, Kendall. B.S., Universidad Autonoma de Centro America; M.S., Ph.D., University of Miami.
- ORTEGA KIMSEY, MARIA, Assistant Professor, Health Occupation-Generic Nurse-HC, Medical Center. A.A., Miami Dade College; B.S.N., University of Florida; M.S.N., University of Phoenix.
- ORTEGA, MARIO E, Assistant Professor, Architecture, Kendall. A.A., Miami Dade College; B.A., M.Arch. University of Florida.
- OSORIO, CLAUDIO, Assistant Professor, Arts and Philosophy, North. B.M., University of Miami; M.M., Manhattan School of Music.
- PACKER, STEPHANIE, *Professor, College Prep, North.* A.A., Miami Dade College; B.A., Florida International University; Ed.S., University of Florida; M.A., Ph.D., University of Miami.
- PAGE, MATTHEW K., *Instructor, Mathematics, Ken-dall.* B.S., Dickinson College; M.S., University of Virginia
- PANEQUE, ONEYDA M., Assistant Professor, Education, InterAmerican. B.A., Northern Illinois University; A.M., University of Illinois-Urbana-Champaign; Ed.D., Florida International University.
- PARKE, DAWN M., *Professor, Mathematics, North.* B.S., University of West Indies; M.A., M.Ed., Teachers College, Columbia University.
- PARKER, GINGER A., Professor, Business Administration, Kendall. B.A., Howard University; M.A., University of Miami.The Stanley G.Tate and Family Endowed Teaching Chair 1993-1995. The Calvin and Flavia Oak Foundation Endowed Teaching Chair 1996-1998.
- PARNS, MERRYLE K., Assistant Professor, Nursing, Medical Center. B.S., University of Miami; M.S., Boston University; M.S., Florida International University.
- PAU-LLOSA, RICARDO M., Professor, English, Kendall. A.A., Miami Dade College; B.A., Florida International University; M.A., Florida Atlantic University.
- PEARL, SUZANNE F., Assistant Professor, College Prep, Wolfson. B.A., M.Ed., Temple University.
- PEDRAZA,TERESITA, *Instructor, Social Science, Kendall.* A.A., Miami Dade College; B.A., M.A., M.P.A., Florida International University.
- PEDRESCHI, CAROLA S., *Instructor, Social Science, North.* A.B., University of Georgia; M.S., University of Central Florida.
- PELIKANT, MARYANN, Associate Professor, College Prep, North. A.A., Broward Community College; B.S., Florida International University; M.S., Nova Southeastern University.
- PERALTA, HECTOR V., *Instructor, Physical Sciences, InterAmerican.* B.S., Universidad de Oriente; M.S., Universidad de Camaguey.
- PERDUE, BENNIE L., *Professor, Student Services, North.* A.A., Miami Dade College; B.A., M.S., Florida International University.
- PEREZ, ANN D., Associate Professor Sr., College Prep, Wolfson. B.A., Holy Names College; M.Ed., University of Puerto Rico-Rio Piedras.

- PEREZ, GUILLERMO, *Professor, E.S.L./Foreign Languages, Wolfson.* B.A., M.A., Ph.D., University of Florida.
- PEREZ, JANIS S., *Professor, E.S.L./Foreign Languages, Kendall.* B.A., Sam Houston State University; M.S., Florida International University.
- PEREZ-MILLAN, MERCEDES, *Professor, Nursing, Medical Center.* A.A., City Colleges of Chicago-Harry S. Truman; B.S.N., Florida International University; M.S.N., Medical College of Georgia.
- PEREZ-MIRABAL, ELENA, Associate Professor Sr., English and Communication, North. B.A., M.A., Florida International University.
- PEREZ-TRIFF, ALFREDO, Professor, Arts and Philosophy, Wolfson. B.M., Manhattan School of Music; B.A., Thomas Edison State College; M.M., Ph.D., University of Miami.
- PETERS, FAITH E., Assistant Professor, Mathematics, Wolfson. A.A., Broward Community College; B.A., Florida Atlantic University; M.S., Florida International University.
- PETERSON-TENNANT, GINNY S., Associate Professor Sr., Social Science, North. B.A., University of Dayton; M.A., Rider University.
- PETROZELLA, OLGA C., Professor, Nursing, Medical Center. B.S.N., University of Florida; M.S.N., Barry University; M.S.V.E., Florida International University; Ed.D., Nova Southeastern University. The John H. O'Neil, Junior, Endowed Teaching Chair in Nursing and Health Related Careers 1994-1996. Columbia/H.C.A. Healthcare Corporation Endowed Teaching Chair 2001-2003.
- PFLEEGOR, CLYDE K., Professor, School of Justice, North. A.A., Keystone Junior College; B.A., M.S.Ed., J.D., University of Miami.
- PICCA, DAVID, Associate Professor, Library, Kendall. B.A., Instituto Universitario Orientale Napoli; M.A., Immaculate Heart College.
- PIERRE-PHILIPPE, LOMER P., Assistant Professor, Letters, Hialeab. A.A., Miami Dade College; B.A., Florida Atlantic University; M.S., Nova Southeastern University.
- PIERSON, CELESTE J., Associate Professor Sr., Fine and Applied-Visual Arts, NWSA. B.EA., University of Alaska-Fairbanks; M.EA., Maryland Institute College of Art. Citibank of Florida Endowed Teaching Chair 2001-2003.
- PINO, ALFONSO A., Associate Professor, Biology, Health and Wellness, Kendall. M.D., Universidad de la Habana.
- PINTO-TORRES, LYNDA S., *Professor, E.S.L./Foreign Languages, Kendall.* B.A., Oberlin College; M.A., University of Michigan-Ann Arbor.
- PITAYAPISUT, PRAPAPIS, Assistant Professor, Health Occupation-Generic Nurse-HC, Medical Center. B.S.N., Mahidol University; M.S.N., Florida International University.
- PITCHENIK, ALISA J., Associate Professor Sr., Fine and Applied-Visual Arts, NWSA. M.F.A., School of Visual Arts. The Congresswoman Carrie Meek Endowed Teaching Chair 2007-2009.
- PODONA, TCHAO, Associate Professor, Chemistry/ Physics/Earth Science, North. Ph.D., Universite D' Orleans.
- POLANCO-PAULA, ROSA, Assistant Professor, Biology, Health and Wellness, Kendall. B.S., University of New Mexico; M.S., Florida International University.
- POMARES, YULY B., Associate Professor, Social Science, Kendall. A.A., Miami Dade College; B.S., Barry University; M.S., Ph.D., University of Miami.
- PONCE, NOEMI, Assistant Professor, Nursing, Medical Center. B.S., Barry University; M.S.Ed., Florida International University.
- POPOLA, BARBARA E., Assistant Professor, Nursing, Medical Center. B.S.N., Barry University; M.S.N., Florida International University.

- PORGES, ILEANA M., Assistant Professor, College Prep-Esl, Hialeab. A.B., Vassar College; M.A., American University; M.S., Florida International University.
- POWELL, DEBORAH, *Professor, Social Science, Kendall.* B.A., Clarke College; M.A., Ohio State University.
- POWELL, WILLIAM A., Associate Professor Sr., Funeral Service Education, North. B.A., Asbury College; M.A., D.Min., Southern Baptist Theological Seminary.
- PRAGUE, MELINDA, *Professor, Education, Inter- American.* B.Ed., M.Ed., University of Miami;
 Ed.D., Hofstra University. The Eduardo J. Padron
 Endowed Teaching Chair 2000-2002.
- PRESA, ARTURO, Associate Professor, Mathematics, Wolfson. B.S., Universidad de Oriente; Ph.D., Saint Petersburg University.
- PRESS, GAIL J., *Professor, College Prep, North.* B.A., M.S., Hofstra University.
- PRIETO-VALDES, JUAN J., Assistant Professor, Mathematics, Kendall. Ph.D., Kharkov Polytechnic Institute.
- PURKISS, MERLENE J., Associate Professor Sr., College Prep, Kendall. A.A., A.S., Miami Dade College; B.L.S., Barry University; M.S., Nova Southeastern University.
- QUESADA, ADELAIDA, Associate Professor, Mathematics, Kendall. A.A., Miami Dade College; B.S., Florida International University; M.A., University of Miami
- QUINN, JEFFREY C., *Professor, Fine and Applied-Art-Theatre, NWSA.* B.A., M.F.A., Penn State University.
- QUINZI, STEPHEN S., Assistant Professor, School of Entertainment and Design Technologies, North. B.M., M.M., University of Miami.
- RACHELSON, ANOUCHKA N., Assistant Professor, E.S.L/Foreign Languages, Kendall. B.A., Florida International University; M.S.Ed., University of Miami.
- RAGOONANAN, ROBERT D., Assistant Professor, Computer Information Systems, InterAmerican. B.S., University of London; M.S., Brighton College of Technology.
- RAIA, JOSEPH C., Associate Professor, English and Communication, North. B.S., M.A., Kent State University.
- RAICHOUDHARY, RAM K., *Professor, Mathematics, Kendall.* M.S., Ph.D., University of Miami.
- RAMOS, ANTONIO D., Associate Professor Sr., Mathematics, InterAmerican. B.S., Universidad de la Habana; M.S., University of Miami.
- RAMSAY, ELIZABETH, Associate Professor, E.S.L./ Foreign Languages, Wolfson. B.A., University of Massachusetts; M.S., Florida International University.
- REDMAN, MYRA J., *Professor, E.S.L./Foreign Languages, InterAmerican.* B.S., University of Pennsylvania; M.Ed., Temple University.
- REGALADO, JULIO, Assistant Professor, Nursing, Medical Center. A.S., Miami Dade College; B.S., M.S.N., Florida International University.
- REMESAR, JOSE C., Assistant Professor, Mathematics, Wolfson. B.S., Universidad de la Habana; Ph.D., la Comision Nacional de Grados Cientificos.

- REVUELTA, RENE S., Associate Professor, Biological Science-Arts and Science, InterAmerican. A.A., Miami Dade College; B.A., University of Miami; Ph.D., University of Puerto Rico-Mayaguez.
- RICCIO, NORMA, Associate Professor Sr., E.S.L./ Foreign Languages, Wolfson. B.S., University of Puerto Rico; M.S., Nova Southeastern University.
- RICHARD, MARK H., *Professor, The Law Center, Wolfson.* A.A., Miami Dade College; B.A., Florida
 International University; M.A., Goddard College;
 J.D., University of Miami.
- RICKHI, SAISNATH, Assistant Professor, Mathematics, North. B.S., University of West Indies; M.S., Florida Atlantic University.
- RILEY, MICHELLE T., Assistant Professor, College Prep, Wolfson. A.A., Miami Dade College; B.A., Florida A. and M. University; M.S., Barry University.
- RITTER, STEVEN, Associate Professor, Biology, Health and Wellness, North. A.S., Mercer County Community College; M.S., Northwest Missouri State University; B.S., M.S., Rutgers University; Ph.D., Florida International University.
- RIVAS, ANTONIO J., Assistant Professor, Physician Assistant, Medical Center. B.S., Florida International University; M.P.A.S., University of Nebraska Medical Center.
- ROACHE, PENELOPE A., Assistant Professor, E.S.L./ Foreign Languages, InterAmerican. A.S., Miami Dade College; B.P.A., M.S., Florida International University.
- ROBERSON, JEROLYNN A., *Professor, College Prep, Wolfson.* A.A., Miami Dade College; B.A., Shaw University; M.A., St. Thomas University.
- ROBINSON, CHRISTINE A., *Professor, English, Kend*all. A.A., Miami Dade College; M.A., University of Miami; B.A., Ed.D., Florida Atlantic University.
- ROCA, OCTAVIO, *Instructor, Arts and Philosophy,* North. B.A., Emory University; M.A., Georgetown University.
- RODRIGUEZ, AIMEE C., Associate Professor, E.S.L./ Foreign Languages, Kendall. A.A., Miami Dade College; B.A., M.A., University of Miami.
- RODRIGUEZ, ARTURO E., Assistant Professor, Chemistry/Physics/Earth Science, North. B.S., Ph.D., Universidad de la Habana.
- RODRIGUEZ, NINON L., *Professor, Arts and Philosophy, Wolfson.* B.A., University of Chicago; M.A., University of Miami.
- RODRIGUEZ-DEHMER, ISABEL, Associate Professor, College Prep. North. B.A., Trinity International University, South Florida Campus; Ed.S., M.S., Barry University. The Peter Masiko, Jr. Endowed Teaching Chair. 1st Year 2007-2009.
- RODRIGUEZ-TRELLES, FELIX, Associate Professor Sr., Chemistry/Physics, Kendall. B.S., Ph.D., Universidad de Buenos Aires.
- ROGERS, CHRISTOPHER W., Professor, Business Administration, Kendall. B.B.A., M.B.A., University of Miami; Ph.D., Capella University. The Henry B.S. Reeves/Miami Times Endowed Teaching Chair 1993-1995. The Calvin and Flavia Oak Foundation Endowed Teaching Chair 2000-2002. Bank of America Endowed Teaching Chair 2004-2006.
- ROGERS, MONIQUE, Assistant Professor, Nursing, Medical Center. B.S.N., Florida International University; M.S.N., University of Phoenix.
- ROITSTEIN, STEVEN, Assistant Professor, School of Entertainment and Design Technologies, Kendall. B.M., M.M., University of Miami.
- ROLAND, HELEN E., Assistant Professor, E.S.L./Foreign Languages, Kendall. A.B., Lincoln Christian College; M.S.Ed., University of Miami; M.S., Southern Illinois University-Carbondale.
- ROMANACH, PEDRO A., Associate Professor, E.S.L./ Foreign Languages, InterAmerican. B.A., M.A., University of Miami.

- ROMER, NIDIA S., Associate Professor Sr., Biology, Health and Wellness, Kendall. B.S., Universidad de Bogota "Jorge Tadeo Lozada"; M.S., University of Miami.
- ROQUETA, MILDRED, Assistant Professor, Social Science, Kendall. B.S., M.S., Caribbean Center For Advanced Studies.
- ROSADO, JAMES, Assistant Professor, Psychology, Wolfson. B.S., Ed.S., M.A.E., University of Florida; M.Phil., Ph.D., Teachers College, Columbia University.
- ROSADO, JOSEPH R., Associate Professor Sr., Biology, Health and Wellness, North. B.S., M.S., University of Illinois-Urbana-Champaign.
- ROSE, RICHARD, Professor, School of Entertainment and Design Technologies, Kendall. B.M., M.S., University of Miami; D.M.A., University of Texas-Austin. The Ruth Wolkowsky Greenfield Chair in Music Endowed Chair 2002-2004.
- ROSENFELD, CATHY, *Professor, English, Kendall.*A.A., Miami Dade College; B.A., Florida International University; M.A., Barry University.
- ROSENTHAL, BARBARA F., Professor, Business Administration, Kendall. B.S.B.A., University of Florida; M.A., M.B.A., University of Miami. The Juan Galan, Jr. Endowed Teaching Chair in Entrepreneurship 1998-2000. The Suntrust Bank Endowed Teaching Chair 2002-2004. The Calvin and Flavia Oak Foundation Endowed Teaching Chair 2007-2009.
- ROSSMORE, ALLAN R., Professor, Aviation, Kendall. A.A., Miami Dade College; B.A., M.I.B., Florida International University; J.D., University of Miami. The Juan A. Galan, Jr. Endowed Teaching Chair in Marketing 2003-2005.
- ROTHSTEIN, ROBERT, Professor, Biology, Health and Wellness, Kendall. B.S.Ed., S.U.N.Y. College at Cortland; M.S.Ed., Alfred University. The Murray Sisselman/Peter Clayton Endowed Teaching Chair 2000-2002.
- ROWE, MARY A., Associate Professor, Secretarial Careers, North. A.A., A.S., Miami Dade College; B.S., Florida International University; M.Ed., Florida Atlantic University.
- RUBIO, MAGALI P., Associate Professor, Social Science, Kendall. A.A., Miami Dade College; B.A., M.S., Florida International University.

5

- SALEH, ABDEL-RIDA, Professor, Mathematics, Kendall. M.S., University of Miami; B.S., M.S., Louisiana Tech University.
- SALINAS, ALEJANDRO, Assistant Professor, Communication Arts, InterAmerican. B.S., M.A., Florida International University.
- SALVADOR, TOYIN M., Assistant Professor, Nursing, Medical Center. A.S., Miami Dade College; B.S., Florida International University; M.S., University of Phoenix.
- SANCHEZ, MARIO R., Assistant Professor, Computer Information Systems, InterAmerican. B.B.A., M.S., Ph.D., Florida International University.
- SANCHEZ, PAULA R., Assistant Professor, E.S.L./ Foreign Languages, Kendall. B.S., University of Wisconsin-Eau Claire; M.S., University of Miami.
- SANCHEZ, REBECCA S., Assistant Professor, Education, Wolfson. B.A., Trinity International University, South Florida Campus; M.S., Nova Southeastern University.
- SANCHEZ-SUAREZ, DALIA E., Assistant Professor, Diagnostic Medical Sonography, Medical Center. B.S., Barry University.
- SANTANA, JIMMY, Associate Professor, Physician Assistant, Medical Center. B.S., C.U.N.Y-City College; B.S., C.U.N.Y-Hunter College.

- SANTELISES, JUAN M., *Instructor, English and Communication, North.* B.A., Universidad Catolica Madre y Maestra; M.A., University of Iowa.
- SANTIAGO, NELSON F., Associate Professor, Fine Arts, InterAmerican. B.F.A., Florida International University; M.A., University of Miami.
- SARGENT, LOIS K., Associate Professor, Veterinary Technology, Medical Center. A.S., Miami Dade College; B.S., Florida Institute of Technology; D.V.M., University of Florida.
- SARGENT, PAULA, *Professor, English and Commu*nication, North. B.A., Illinois College; M.A., Ball State University.
- SARGSYAN, GOHAR, Instructor, Mathematics, Kendall. B.S., M. Nalbandyan State Pedagogical Institute: M.S., Florida International University.
- SAWHNEY, AMARJEET S., Professor, Architecture, Kendall. B.A., Panjab University; M.A., Cornell University. The Spillis Candela and Partners, Inc. Endowed Teaching Chair 1992-1994. Spillis Candela and Partners, Inc. Endowed Teaching Chair 2001-2003.
- SAXTON, JENNIFER C., Assistant Professor, Library, Kendall. B.A., Quinnipiac College; M.S., Florida State University.
- SCALISE, CLAUDIA M., *Instructor, Arts and Philosophy, Wolfson.* A.A., Miami Dade College; B.F.A., Florida International University; M.F.A., University of Miami.
- SCHINOFF, STEFANIE R., Professor, E.S.L./Foreign Languages, Kendall. M.Ed., University of Miami.
- SCHMELZER, TIMOTHY T., Assistant Professor, Aviation, Kendall. B.S., Troy University. The J. Harvey Watson Chair in Aviation Endowed Teaching Chair 2002-2004.
- SCHROEDER, DAVID, *Professor, English, Kendall.*A.A., Fulton-Montgomery Community College;
 B.A., M.A., University of Miami. Peter H. Clayton
 Endowed Teaching Chair 2001-2003.
- SCHUEMANN, CYNTHIA M., Professor, E.S.L./Foreign Languages, InterAmerican. B.A., University of Wisconsin-Milwaukee; M.S., Ed.D., Florida International University. The Citibank Endowed Teaching Chair 2008-2011.
- SCHUH, MATTHEW A., *Instructor, Arts and Philosophy, North.* B.A., M.A., University of Miami.
- SCHULTZ, SANDRA L., Professor, Biology, Health and Wellness, North. B.A., Florida Atlantic University; M.S., Florida International University; Ph.D., Florida State University. The Anastasios and Maria Kyriakides Endowed Teaching Chair 1995-1997. The Dr. Demie J. Mainieri/Miami Jai-Alai Endowed Teaching Chair in Health and Physical Education 1999-2001. Dr. Demie J. Mainieri/Miami Jai Alai Endowed Teaching Chair in Health Physical Education 2003-2005. The Anastasios & Maria Kyriakides Endowed Teaching Chair 2008-2011.
- SCOTLAND WILLIAMS, AGATHINE, Associate Professor, Nursing, Medical Center. B.S.N., M.S.N., Barry University.
- SCURRY, HENRY, Professor, Biology, Health and Wellness, North. A.A., A.S., Miami Dade College; B.S., Knoxville College; M.S., Ohio State University: M.P.H., Florida International University.
- SENDIN, EMILIA A., Associate Professor, Communication Arts, InterAmerican. A.A., Miami Dade College; B.A., M.A., Florida International University. The Arthur H. Hertz Endowed Teaching Chair 2005-2007.
- SER, CARY D., *Professor, English, Kendall.* A.A., B.A., M.A., Ph.D., University of Florida.
- SERFATY DE MARKUS, ALICIA, Associate Professor, Mathematics, Kendall. B.M.E., M.S., Ph.D., Simon Bolivar University.
- SEVCIK, RONALD E, Professor, Social Science, Homestead. B.A., S.U.N.Y. at Buffalo; M.A., Michigan State University; Ed.D., Nova Southeastern University.

- SHAHEEN, DAVID M., Associate Professor, Social Science, Kendall. M.A., Catholic University of America; B.A., D.A., George Mason University.
- SHAIKH, SAEED A., Assistant Professor, Engineering, North. A.S., Miami Dade College; B.S., Florida International University.
- SHAKIL, MOHAMMAD, Associate Professor, Mathematics, Hialeab. M.S., Florida International University; B.S., Ph.D., Patna University.
- SHAW, LISA, Associate Professor Sr., English and Communication, North. B.A., University of South Florida; M.F.A., C.U.N.Y.York College. The John and James L. Knight Foundation Endowed Teaching Chair 2002-2004. The Ruth B. Jack Kassewitz Endowed Teaching Chair 2007-2009.
- SHIPPEY, MARGARET, Assistant Professor, E.S.L./ Foreign Languages, Wolfson. B.A., Davidson College; M.S., Florida International University.
- SIGALE, MERWIN, Associate Professor Sr., Communication Arts, Kendall. B.S., M.A., University of Illinois.
- SIKAH, VICTOR P., *Professor, E.S.L./Foreign Languages, Kendall.* B.A., M.S., Byelorussian Institute of Agriculture Mechanization; M.S., Ed.D., Florida International University.
- SIMMONS, RONALD J., *Professor, Vision Care, Medical Center.* A.S., Hillsborough Community College; B.A., University of South Florida.
- SINKOFF, SHERRI F., Assistant Professor, Letters-English, Hialeab. B.S., M.S., Long Island University Brooklyn Campus.
- SIU, HENRY H., Associate Professor, Biology, Health and Wellness, North. M.S., University of North Texas; Ph.D., University of Texas Southwestern Medical Center at Dallas.
- SLOAN, DIANE K., Professor, English and Communication, North, B.S., M.A., Syracuse University.
- SLOCUM, PHILLIP D., Assistant Professor, Respiratory Care, Medical Center. A.A., Miami Dade College; B.A., Trinity International University.
- SMITH, DAVID W., Associate Professor Sr., School of Entertainment and Design Technologies, North. A.S., Miami Dade College; B.S., Florida State University.
- SMITH, KIMBERLY D., Assistant Professor, College Prep, Homestead. B.S., Florida International University: M.S., Nova Southeastern University.
- SMITH, LOIS V., Professor, College Prep, North. A.S., Miami Dade College; B.Ed., University of Miami; M.S., Florida International University.
- SMITH, RANDY O., Assistant Professor, Mathematics, North. B.S., Florida Memorial College; M.S., University of Miami.
- SMITH, REBECCA M., Assistant Professor, Dental Hygiene, Medical Center. A.A., A.S., Miami Dade College; B.H.S.A., Florida International University: M.P.H., University of Miami.
- SOLARI GARRISAN, GAIL, *Instructor, Fine and Applied-Art-Theatre, NWSA.* B.A., Hofstra University; M.F.A., Florida Atlantic University.
- SOLOMON, MERVYN, Associate Professor Sr., Library, Homestead. B.A., M.S., University of Toronto; M.L.S., University of Western Ontario.
- SPENCE, LEIGHTON A., Instructor, College Prep, North. B.A., Long Island University Brooklyn Campus; M.S., Nova Southeastern University.
- STAMBAUGH, ROBERT, Professor, English and Communication, Wolfson. B.A., M.A., Fordham University.
- STEELE, CAROL A., Assistant Professor, Arts and Philosophy, North. B.A., Palm Beach Atlantic College; M.M., University of Miami.
- STEINMETZ, ROBIN G., *Professor, English and Communication, North.* A.A., Miami Dade College; B.S., Barry University; M.A., Florida Atlantic University.
- STERLING, KATRIKA N., Assistant Professor, English and Communication, North. A.A., Miami Dade College; B.A., M.A., Florida Atlantic University.

- STEWART, KAREN M., *Professor, Arts and Philosophy, North.* B.S., Florida A. and M. University; M.FA., Florida State University.
- STOCKER, BRADFORD R., *Professor, E.S.L./Foreign Languages, Kendall.* B.A., University of Miami; Ed.S., Barry University; M.Ed., University of Massachusetts; Ph.D., Florida International University.
- STRACHAN, WINSTON A., *Professor, Chemistry/ Physics/Earth Science, North.* B.S., Ph.D., University of Salford.
- STRINGER, CHARLES A., Assistant Professor, Physician Assistant, Medical Center. A.A., Miami Dade College; B.H.S., University of Florida; M.A., Barry University.
- STRIZVER-MUNOZ, STEVE B., Associate Professor Sr., Letters, Hialeab. B.A., University of Maryland-College Park; M.A., University of Maryland-Baltimore County.
- STUBBS, RONALD L., Assistant Professor, Arts and Science, InterAmerican. B.A., M.A., University of Kansas; M.A., Ph.D., Florida International University.
- SULLIVAN, JAMES P., Assistant Professor, Education, InterAmerican. B.A., Indiana University; M.S.Ed., Wheelock College.
- SUMMONS, SUSAN P., Associate Professor, Biology, Health and Wellness, Kendall. A.A., Roxbury Community College; B.S., Southern New Hampshire University; M.S., Florida International University. The Andrew Blank Endowed Teaching Chair 1999-2001. The Henry E.S. Reeves/Miami Times Endowed Teaching Chair 2007-2009.
- SUSSMAN, BARBARA D., Associate Professor Sr., College Prep, Wolfson. B.A., University of Rochester; M.S.Ed., University of Pennsylvania.
- SUSSMAN, MARJORIE J., Professor, College Prep, Wolfson. B.S.Ed., University of Vermont; M.Ed., Framingham State College. Ruth Anderson Foundation Endowed Teaching Chair 2001-2003.
- SYDER, THEODORE P., Assistant Professor, Social Science, North. A.A.S., B.S., St. Francis College; M.S., St. Thomas University; Ph.D., Union Institute and University.
- TABARES, JESUS B., *Professor, Social Science, Kendall.* A.A., Miami Dade College; B.A., Ed.S., M.S., University of Florida.
- TALAVERA, ERNEST, Associate Professor Sr., College Prep, Wolfson. B.A., University of Miami; M.S., Florida International University.
- TAMARGO, JOSEPH, Associate Professor, Arts and Philosophy, Wolfson. A.A., Miami Dade College; B.A., Florida International University; M.F.A., University of Miami.
- TANG, DIANA, Assistant Professor, E.S.L./Foreign Languages, InterAmerican. M.A., University of Delaware.
- TARAFA, MARIA E., Assistant Professor, Chemistry/ Physics, Kendall. B.S., M.S., Ph.D., University of Miami.
- TARKAN BLANCO, BASAK, Assistant Professor, English, Kendall. B.A., Bogazici University; M.A., Western Michigan University.
- TARVER, JUDITH F., Professor, English and Communication, Wolfson. B.A., M.A., Rollins College.
- TATE, BEVERLY, Associate Professor Sr., Education, Homestead. A.A., Miami Dade College; B.L.S., Barry University; M.S.Ed., University of Miami. The Esther Colliflower Endowed Teaching Chair 2002-2004. The Jeanne-Marie and Dante Fascell Endowed Teaching Chair 2007-2009.

- TAVARES-SOGOCIO, ANGELA M., Associate Professor, E.S.L./Foreign Languages, Wolfson. B.A., University of Massachusetts-Dartmouth; M.A., Catholic University of America.
- TAYLOR, CLEVELAND A., Assistant Professor, Mathematics, InterAmerican. M.S., Ph.D., Tufts University
- TE, FRANKLYN T., Associate Professor, Natural Sciences, Wolfson. Ph.D., University of Hawaii-Manoa.
- TELESCO, GRACE A., Assistant Professor, BAS-Interdisciplinary-Public Safety, North. B.S., M.A., C.U.N.YJohn Jay College of Criminal Justice; Ph.D., Fordham University.
- TESH, MICHAEL S., Professor, Letters-Arts/Philosophy, Hialeah. B.A., M.A., University of Florida. The Henry E.S. Reeves/Miami Times Endowed Teaching Chair 1996-1998.
- THOMAS, KATHY J., Professor, Health Occupation-Generic Nurse-HC, Medical Center. A.A., Miami Dade College; B.S.N., University of Florida; M.S.N., University of Miami; Ph.D., Barry University. The George W. Jenkins Foundation/Publix Supermarkets Charities Endowed Teaching Chair 1999-2001.
- THOMPSON, ADRIANNE A., Associate Professor, E.S.L./Foreign Languages, InterAmerican. B.A., University of Iowa; M.A., Teachers College, Columbia University.
- THOMPSON, JAKEISHA D., Assistant Professor, Mathematics, Kendall. B.S., M.S., Clemson University.
- TIBAQUIRA, DIEGO O., Assistant Professor, Computer Information Systems, InterAmerican.
 B.S., University of North Carolina-Greensboro;
 M.S., North Carolina A and T State University.
- TISEVICH, PAUL, Assistant Professor, Library Services, InterAmerican. A.B., University of Illinois-Chicago; M.S., University of Illinois-Urbana-Champaign.
- TODD, JOHN W., Assistant Professor, Communication Arts, Kendall. B.A., Southwestern College; M.A., Central Michigan University.
- TOMASELLO, RANDAL S., *Professor, Music, Kendall.* B.M., M.M., University of Miami.
- TOMLINSON, ANNETTE W., Assistant Professor, Nursing, Medical Center. A.S., Miami Dade College; B.S.N., Florida International University.
- TORRES, CLARA R., Assistant Professor, Health Occupation-Generic Nurse-HC, Medical Center. B.S.N., University of Miami; M.S.N., Florida International University.
- TOWNSEND, PETER C., *Professor, English, Kendall.*A.A., Miami Dade College; B.A., M.A., University of Miami.
- TOWNSEND, RICHARD W., Professor, Social Science, Kendall. B.S., M.Ed., University of Florida.
- TSENG, DAVID H., *Instructor, Mathematics, Kend*all. B.S., National Taiwan Ocean University; M.E., C.U.N.Y-City College.
- TULLOCH, DENTON P., Associate Professor, College Prep, North. A.A., Miami Dade College; B.S., M.S., Nova Southeastern University.
- TULLOCH, JOAN Y., *Instructor, College Prep-Lab, Hialeab.* B.A., University of West Indies; M.S., Nova Southeastern University.
- URHOGHIDE, ISAIAH N., Associate Professor, Chemistry/Physics/Earth Science, North. B.S., M.S., Ph.D., Bendel State University.
- USZEROWICZ, VICTOR, Associate Professor Sr., English and Communication, Wolfson. B.A., New York University; M.A., Columbia University.

- VALDES, ERNESTO, Professor, College Prep, Kendall. B.A., Florida International University; M.S., Nova Southeastern University; Ph.D., Capella University.
- VARELA, MARISOL L., Assistant Professor, College Prep, InterAmerican. A.A., A.S., Miami Dade College; B.A., Florida International University; M.S., Nova Southeastern University.
- VARGAS, MARIA R., Associate Professor Sr., College Prep-ESL, North. B.A., Queens University of Charlotte; M.S., C.U.N.Y-Lehman College.
- VAUGHEN, CHRISTOPHER S., *Instructor, Mathematics, North.* B.S., University of Florida; M.S., University of Mississippi.
- VAZQUEZ, AMERICA, Professor, E.S.L./Foreign Languages, InterAmerican. B.A., University of Puerto Rico; M.Ed., Temple University.
- VAZQUEZ, HECTOR, *Professor, Music, Kendall.* B.M., M.M., Ph.D., University of Miami.
- VAZQUEZ, JOSE, Assistant Professor, Architecture, North. B.Ed.S., University of Puerto Rico-Rio Piedras; M.Arch., Ohio State University.
- VAZQUEZ, VICTOR, Assistant Professor, Social Science, Wolfson. M.A., University of Puerto Rico-Rio Piedras; Ph.D., Temple University.
- VELASQUEZ-RAUCH, MARLENE M., Assistant Professor, Nursing, Medical Center. B.S., M.S., University of Miami.
- VELLONE, ADAM D., Assistant Professor, English, Homestead. B.A., M.A., Edinboro University of Pennsylvania.
- VENSEL, MICHAEL D., *Instructor, College Prep, Kendall.* B.A., Georgia State University; M.S., Florida International University.
- VERONICA, MARINA, *Instructor, Arts and Philosophy, Kendall.* B.A., Boston University; M.A., School of The Art Institute of Chicago.
- VILLAR-SMITH, MARIA C., Associate Professor Sr., College Prep, Wolfson. B.A., University of Florida; M.A., American University; Ed.S., Florida International University.
- VINCIGUERRA, ANTHONY, *Professor, Chemistry/ Physics/Earth Science, North.* B.S., University of Miami; Ph.D., Florida State University.
- WADLE, DAVID M., Associate Professor, Communication Arts, Kendall. B.S., M.S., Texas Christian University.
- WAHL, FLORENTINA S., Assistant Professor, Fine and Applied-Art-Dance, NWSA. A.A., Saint Paul College of Manila.
- WALKER, DENACY S., Assistant Professor, Nursing, Medical Center. B.S., Columbia Union College; M.S.N., University of Miami.
- WALKER, RONALD E., Assistant Professor, Communication Arts, InterAmerican. A.A., Miami Dade College; B.A., M.S., Florida International University.
- WALKER-PERRY, GERALDINE, Professor, English, Homestead. B.Ed., University of Miami; M.Ed., Louisiana State University and A. and M.; Ed.D., Florida International University. The Jenkins/ Publix Supermarkets Endowed Teaching Chair 2002-2004. The Ruth Anderson Foundation Endowed Teaching Chair 2007-2009.
- WALTON, MICHAEL J., Professor, Computer Information Systems, North. A.A., Miami Dade College; B.A., University of West Florida; M.S., Barry University.
- WARD, WENDY J., Associate Professor, College Prep, Wolfson. A.A., Miami Dade College; B.A., M.Ed., University of Florida.

- WARREN, DAVID, Associate Professor, English and Communication, Wolfson. M.A., Northern Illinois University; A.B., Ph.D., Wayne State University.
- WIEGANDT, ELIZABETH C., Associate Professor, E.S.L/Foreign Languages, Kendall. Ed.S., Nova Southeastern University; B.A., M.S.Ed., C.U.N.Y Queens College.
- WILLIAMS, STUART K., *Instructor, Social Science, Kendall.* B.A., M.A., Florida International University; M.A., The New School.
- WILSON YOUNG, NANCY, Professor, College Prep, Kendall. B.S., Claffin College; M.Ed., University of Miami.
- WIND, BRADFORD L., *Instructor, Mathematics, North.* B.S., M.A., Marshall University.
- WIRTEL, JOSEPH P., Associate Professor, Letters, North. B.A., Florida Atlantic University; B.A., Florida State University; M.S., Nova Southeastern University.
- WONG, ALICE, Associate Professor, Mathematics, North. B.A., University of Miami; M.A., Stanford University.
- WORSLEY, MARY E., Assistant Professor, Medical Management Sciences, Medical Center. A.S., Miami Dade College; B.S., M.S., Nova Southeastern University.
- WYBORNY, HARLAN W., Professor, Chemistry/Physics/Earth Science, North. B.A., M.S., Ph.D., University of Iowa.
- YATES, LENORA, Professor, Nursing, Medical Center. B.S.N., Chicago State University; M.B.A., M.S.N., Barry University; Ed.D., Florida International University.
- YI, NANCY C., Associate Professor, College Prep, Kendall. A.A., Miami Dade College; B.S., M.S., Florida International University.
- YODER, MICHAEL A., Assistant Professor, Emergency Medical Services, Medical Center. A.S., Florida Keys Community College; A.S., Miami Dade College.
- YOUNG, CHERRYL D., Assistant Professor, Nursing, Medical Center. A.A., Miami Dade College; B.S., B.S.N., M.S., Barry University.
- YOUNG, CLIFFORD W., Professor, Social Science, Kendall. B.A., M.A., University of Texas-Austin; Ed.D., Florida International University. Adorno and Zeder Employee Charitable Foundation Endowed Teaching Chair 2001-2003.
- ZABALA, MARIA D., *Instructor, Architecture, North.* B.Arch., University of Miami; M.S., Columbia University.
- ZALDIVAR, RAQUEL P., Professor, English and Communication, Wolfson. B.A., M.A., J.D., University of Miami.
- ZAMORANO, MARTHA B., *Professor, English, Kendall.* B.A., M.A., University of Miami.
- ZELMER, PAMELA P., Associate Professor Sr., Natural Science, Wolfson. B.S., Penn State University; Ph.D., University of Miami.
- ZEN, CLARK J., *Professor, School of Justice, North.* B.S., C.U.N.YJohn Jay College of Criminal Justice; M.S., St.Thomas University.
- ZHANG, QIANHUI, Professor, Chemistry/Physics/ Earth Science, North. Ph.D., University of Miami.
- ZHANG, YUANZHONG, Assistant Professor, College Prep, North. B.A., East China Normal University; Ed.S., M.A., University of Arizona.

- ZIMMERMAN, KYLE T., *Instructor, Arts and Philosophy, North.* B.F.A., East Carolina University; M.F.A., Virginia Commonwealth University.
- ZOLFAGHARI, MERLIN R., Assistant Professor, Radiologic Sciences, Medical Center. A.S., Miami Dade College; B.S., M.S., Florida International University.
- ZUSMAN, VICTORIA S., Associate Professor, Biology, Health and Wellness, North B.A., College of Notre Dame-Maryland; M.S., Radford University; M.P.H., University of Minnesota Twin Cities.

Professors Emeriti

ADELSON, ESTELLE G., (1967-1986), B.A., M.A.
AGRAS, NORMA, (1977-2007), B.A., M.A.
AIDEM, JOHN R., (1965-1984), D.C.T., B.S., M.S.
AIKENS, JOSEPH W., (1961-1985), B.S., Ed.S., M.Ed.
ALDERFER, MILTON C., (1968-2003), B.B.A., M.B.A.
ALEXANDER, DIMITRY N., (1966-1996), B.A., J.D.
ALHEIM, WILLIAM R., (1961-1996), B.S., M.A., Ph.D.
ALLEN, ROGER D., (1965-1986), B.S., M.A., M.S.
ALLEN, STEWART, (1969-1997), B.A., M.A.
ALTSHULER, THELMA C., (1962-1998), B.S., M.A.
ANDERSON JR, GEORGE S., (1965-1994), B.S., M.Ed.,
Ed.D.

ANDREWS, LINCOLN G., (1969-1988), B.Ed., M.Ed. ARANEGUI, SANTIAGO Q., (1974-), B.S. ARCHIBALD, JOHN M., (1966-1991), B.Ed., M.S. ARTZT, NORBERT S., (1966-1996), B.A., M.A. ASBURY, CHARLES J., (1969-1994), B.A., M.A., M.A., Ph.D.

AUGUSTINE, FRANK L., (1969-1990), B.A., Ed.S., M.Ed., M.S.

AUSTIN, ELLYN W., (1965-2003), B.A., M.A.T.

AUSTIN, JACQUELIN C., (1969-1990), B.A., M.S. BABSKI, CARL A., (1960-1996), B.S., M.S., Ed.D. BALDWIN, FREDERICK L., (1970-1998), B.S., M.A. BALLESTER, ANIBAL, (1967-1992), B.A., M.S. BAMBER, EDWARD A., (1966-1987), B.S., M.Ed. BARONE, ROBERT, (1966-1996), B.A., M.A. BASSO, ROBERT E., (1964-1996), B.A., M.B.A. BEAVIN, CHARLES W., (1969-2006), B.A., M.B.A. BENNETT, HOWARD C., (1967-1992), B.S., M.S. BENSON JR, NEAL P., (1964-1996), B.S., M.A., Ed.D. BENSON, ROBERT N., (1964-1993), B.A., M.A. BERGEN, GEORGE T., (1967-1993), B.A., M.A. BERGEN, GEORGE T., (1968-2006), B.A., M.A., Ed.D.

BIBBY, PATRICK J., (1974-2008), B.S., M.S., Ph.D. BIDDLE, MARY M., (1962-1983), B.S., M.S. BIRDSEY, MONROE R., (1963-1982), B.A., M.A., Ph.D.

BETHARDS, LEONARD S., (1964-1988), B.A., Ed.S.,

M.B.A.

BLACKSTONE, ELAINE D., (1970-1990), B.S., M.Ed., M.S.N., Ed.D.

BLITZER, ROBERT F., (1971-1998), B.A., M.A., Ed.D. BOCHES, ANNE E., (1969-1994), B.A., M.A. BODGER, ARTHUR, (1967-1986), B.M., M.M. BOLES, EDWIN V., (1972-1992), B.B.A., M.A. BOSSTICK, MAURICE, (1966-1996), B.S., M.S. BOYLE, JOSEPH J., (1967-2003), B.S., M.S.T. BRADY, RAYMOND G., (1966-1994), B.A., M.A.T. BRECHNER, ROBERT A., (1966-2003), B.S., M.B.A. BREDENBERG JR, HENRIK, (1967-1996), B.A., L.L.B., M.A., Ph.D.

BRIGGS, DONALD C., (1962-1996), B.A., D.A.
BRODSKY, MICHAEL D., (1972-2005), B.Ed., M.S.,
M.S.W.

BROWN, FREDERICK K., (1964-1984), B.B.A., M.B.A. BROWNER, MICHAEL B., (1967-1996), B.A., M.A. BURR, DORIS M., (1961-1991), B.A., M.A. BURR, MARIANNE G., (1966-1991), B.M., M.M. BURRUS, THOMAS L., (1965-1995), B.S., M.Ed. CHADURGIAN, IACK M., (1966-1990), B.S., M.Ed. CHASSMAN, ARTHUR R., (1961-1990), B.F.A., M.F.A. CHENG, KUO Y., (1961-1979), B.S., M.S. CHILLAG, JOAN C., (1968-1994), B.S., M.A. CHRISTIE, ROBERT E., (1960-1995), B.Ed., M.A. CLARK, DONALD B., (1966-1998), B.A., M.S., Ph.D. CLINE IR, FRANK P. (1963-1996), B.A., M.A. CLOUSTON, OFELIA M., (1968-1993), B.S.N., M.S.N. COATS, SHIRLEY B., (1961-1983), B.A., M.Ed. COE, EVAN G., (1961-1989), B.A., M.A. COLLINS, JOHN G., (1961-1982), B.A., M.A. COLMAN, CLIFFORD V., (1968-1998), B.A., M.A. COMBS, ARTHUR W., (1965-1989), B.A., M.Ed., Ph.D. CONOVER, PAUL H., (1961-1981), B.S., M.A. COOPER, CAROLYN, (1975-2006), A.S., B.A., M.S.,

CORBIN, JOHN P., (1961-1983), B.S.
COULTER JR, JAY W., (1963-1985), B.Ed., M.Ed., Ed.D.
CRAIG, ELMER, (1971-1996), B.S., M.A.
CRAIN, MARY T., (1967-1986), B.A., M.A.
CRAWFORD, GALE E., (1971-1994), B.S., M.S.
CREELY, BEVERLY A., (1965-1996), B.Ed., M.A.
CREWS, GEORGE L., (1961-1982), B.S., M.Ed.
CRONIN, JOAN M., (1966-1989), B.A., M.A.
CRUSE, JOANNA S., (1973-1995), B.A., M.A., D.A.
DAGRAEDT, MARY V., (1961-1995), B.S., M.S.
DAUGHERTY, GEORGETTE H., (1967-1993), B.A., M.Ed.

DAVIS, BRUCE A., (1966-2003), B.S., M.S.
DAVIS, LEE W., (1963-1985), B.S., M.A.
DAWSON JR, WILLIAM G., (1978-2000), B.A., M.M.
DE SAUTEL, BRUCE L., (1967-1995), B.S.
DEAN, PATRICIA A., (1961-1986), B.A., M.A.
DELONG, PATRICK D., (1961-1992), B.S., M.A.
DEMARIS, RONALD E., (1965-1995), B.S., M.A.
DERUMS, RASMA, (1967-1997), A.S., B.S., M.S.
DIEBOLD, CLIFFORD A., (1974-1996), B.S., M.B.A.
DIGGES JR, FRANK T., (1965-1996), B.S., M.A.
DOMINGUEZ, NESTOR J., (1978-1996), B.A., M.A., Ph.D.

DROBNER, ROBERT H., (1961-1986), B.S., M.A.
DUFF, SHELBY, (1961-1991), B.A., M.Ed.
DUNN, DOROTHY A., (1966-1988), B.A., M.A., D.A.
EDMUNDSON, NELLIE U., (1964-1996), B.S., M.A.
EMERSON, GEORGE H., (1967-2003), B.A., Ed.D.
FACKRELL, J. G., (1968-1996), B.A., M.Ed.
FALLON, MARCIA J., (1967-1995), B.A., M.L.S., Ed.D.
FERGUSON, BETTY T., (1971-2001), B.S., M.A.
FERRER, MARTA, (1978-1996), M.S.
FIRESTONE, BRUCE, (1969-1997), B.S., M.S.
FISHBEIN, ELIZABETH L., (1967-1991), B.S., M.M., Ph.D.

FISHER, IJOURIE S., (1961-1985), B.A., M.Ed., M.S., Ph.D.

FIX, COLLEEN M., (1966-1998), B.A., M.S. FLETCHER, MABEL, (1960-1982), B.A., B.L.S. FORRESTER, JANIE B., (1967-1986), B.A., M.S. FOSTER, BARBARA J., (1974-1996), B.S., M.S. FRANCIS, CYRIL A., (1970-1995), B.A., M.A., M.A., M.A.

FROMM, MARIEL D., (1963-1995), B.S., M.A. FUNKE, FRANCIS J., (1960-1980), B.A., Ph.D. GAGER, GEORGE F., (1961-1992), B.S., M.S. GALLOWAY, BARBARA J., (1966-1996), B.S., M.B.A., M.S.

GARCIA-GOMEZ, JULIO (1981-2008), B.A., M.S., M.S.ed., Ph.D.

GEARHART, DARWIN E., (1966-1996), A.A., A.S., B.A., B.D., T.H.M.

GIBSON III, JOSEPH H., (1967-1997), A.S., B.S., M.Ed. GILBERT, WILBUR A., (1967-1997), B.S., M.S. GILLESPIE, PAUL R., (1963-1986), B.A., M.S. GLUSKI, HENRY A., (1963-1988), B.A., M.A., M.A. GOLDSTEIN, KENNETH, (1964-1993), B.S., M.A. GOLL, ROBERT J., (1969-1996), B.S., B.S., Ph.D. GONZALEZ, ANGELA M., (1976-2003), B.Ed., M.A., Ed.D.

GONZALEZ, BLANCA M., (1968-2002), A.A., B.B.A., M.B.A.

GONZALEZ, CHARLES, (1969-1998), B.A., M.Ed. GORMAN JR, RAYMOND H., (1961-1992), B.A., M.Ed., M.S.

GRANROS, FREDERICK E., (1964-1997), B.S., M.Ed. GRAY, JAMES S., (1966-1992), B.A., M.B.A. GREENE, CHARLES P., (1967-1997), B.A., M.Ed., Ed.D.

GREENFIELD, PHYLLIS E., (1966-1990), B.S., M.S. GREENFIELD, RUTH W., (1964-1988), B.M., M.M., D.M.

GROSELLE, FRANCIS X., (1961-1995), B.S., Ed.S., M.S. GROSZ, ROBERT C., (1966-1996), B.A., M.S., Ed.D. GROWICK, SIMON, (1969-1993), A.A., A.S., B.S., M.S. GRUMBACH, ROYAL D., (1967-1990), B.A., M.A., Ph.D.

GRUSSING, DALE E., (1969-2003), A.A., B.S., M.S., M.S., GUTHRIE, JAMES J., (1962-1986), B.A., M.S., Ed.D. HAJDUKIEWICZ, WILLIAM, (1969-1996), B.S., M.Ed. HANDELSMAN, ROBERT J., (1968-1995), B.A., M.A., Ph.D.

HECKERMAN, RAYMOND O., (1964-1987), B.S., M.S., Ph.D.

HERNANDEZ, ROBERTO, (1970-2003), B.A., M.A., J.D. HERRIG, JOANNA B., (1963-1993), B.S., M.S., Ed.D. HILLSTEAD, KANDELL W., (1970-1994), B.A., M.A. HODGES, PATRICIA, (1967-2000), B.S., M.B.A. HOFFMAN, LINDA K., (1968-1997), B.S., M.Ed. HOGAN, FRANCIS L., (1961-1990), B.S., M.S., Ph.D. HOLLAND JR, WILLIS A., (1965-1997), B.A., M.S., Ph.D. Ph.D.

HOLT, CHARLES E., (1961-1981), B.A., M.A. HORNOR, MARIA B., (1960-1986), B.S., M.Ed. HUFE KATHERINE A., (1975-1996), B.A., M.Ed. JACOBS, MORRIS D., (1963-1986), B.S., Ed.S., M.S. JEFFERSON, THOMAS W., (1962-1986), B.A., Ph.D. JOHNSON, ANITA L., (1973-1999), B.S.N., M.A., M.S.N.

JOHNSON, JUANITA B., (1974-2002), B.A., M.L.S. JOHNSON, RALPH F., (1970-1995), B.S., M.Ed., Ed.D. JONES, ELWOOD E., (1967-1991), B.A., M.Ed. JONES, JOHN A., (1970-1994), B.S., M.S., Ph.D. JONES, MILDRED S., (1968-1995), B.S., M.S. JONES, WILLIAM B., (1963-1982), B.S., M.Ed. KAMBOUR, MICHAEL T., (1963-1988), B.Ed., B.S.E., M.Ed.

KANZER, LAWRENCE, (1964-1993), B.A., M.A., J.D. KELLER, FREDERIC E., (1967-1997), B.S., M.A., Ed.D. KERCHEVAL, BARBARA A., (1963-1995), B.S., M.S. KERN, JOHN E., (1972-1997), B.S., M.S. KING, MARY B., (1961-1999), B.A., M.A. KLEZMER, MICHAEL I., (1966-1996), B.A., M.EA. KLINGENSMITH, CHARLES F., (1966-1996), B.S., Ed.S., M.Ed.

KOBELIN, JOEL, (1963-1991), B.S., M.Ed., Ed.D. KOETH, LEONARD A., (1966-1996), B.S., M.B.A., Ed.D.

KORNGOLD, RAYMOND B., (1962-1990), A.A., B.A., M.A.

KRANTZ, BARBARA M., (1968-1996), B.S., M.Ed. KROHN, EDWARD J., (1972-2001), B.A.A., B.S., M.Ed. LALICH, VELJKO, (1966-1996), B.A., M.A., Ph.D. LAMADRIZ, ROCIO A., (1977-1997), B.A., M.A. LAMAR, ENRIQUE J., (1968-1992), B.A., M.S. LANGSAM, MARVIN I., (1970-2000), B.Ed., M.Ed. LARKINS, MARGARET W., (1970-1999), B.S., Ed.S., M.S., Ed.D.

LAZZARO, THOMAS A., (1964-1995), B.S., M.A.T. LEGGETT, ANNA C., (1976-2007), A.A., B.A., M.S. LEONARD, DOROTHEA L., (1967-1993), B.A., M.Ed., Ph D

LEWIS, JUNE E., (1969-1991), B.S., M.S., Ed.D.
LILLIEN, IRVING J., (1969-1996), B.S., M.S., Ph.D.
LOMBARD, MAX M., (1967-1995), B.A., M.Ed., Ed.D.
LOPEZ, ALICE S., (1962-1983), B.S., M.A.
LOWERY, BARBARA, (1983-2002), B.A., M.A.
MACKAY, KATHLEEN S., (1964-1991), B.A., M.Ed.
MAHAN, MARY H., (1971-2001), B.S., M.S., Ed.D.
MARKERT III, GEORGE W., (1961-1981), A.A., A.B., M.S.

MARTINEZ, OLGA D., (1975-1995), M.S.
MASON, GERALD E., (1964-1995), B.S., M.Ed., Ed.D.
MAST, RICHARD C., (1966-2003), B.S., M.A., Ed.D.
MAXWELL, JEROME L., (1966-1995), B.S., M.S.
MCAULEY, JACK A., (1966-1988), B.B.A., M.A.
MCDANIEL, MILDRED L., (1961-1983), B.A., L.L.B.,
M A

MCDONOUGH, MARTHA M., (1961-1996), B.A., M.A.

MCELLIGOTT, THOMAS J., (1960-1981), A.B., M.A., M.Ed.

MCELWAIN, WILBUR, (1960-1986), A.A., B.S., M.A., Ed.D.

MCGINLEY, FORREST A., (1966-1993), B.M., M.M.
MCGUIRL, THOMAS I., (1972-1994), B.S., M.Ed.,
Ph.D.

MCLEAN, DOUGLAS E., (1963-1982), B.S., M.S. MCMANNUS, E L., (1968-1991), B.A., M.A. MCWHORTER, JAMES M., (1966-1997), B.S., M.S.T. MEADOR, BETTY L., (1972-1996), B.S. MENDOZA, MANUEL G., (1965-1998), B.A., M.A. MESSER, HANNA G., (1964-1984), B.S., Ed.S., M.A., M.Ed.

MILLER, MARY R., (1973-1991), B.A., M.Ed.
MILLS, QUILVIE G., (1970-1990), B.S., M.S.
MINDLIN, LEO, (1967-1987), B.A., M.A.
MIRON, STANLEY S., (1966-1996), B.A., M.A.
MISTRY, FIROZ R., (1970-1991), M.S.
MORGAN, EVELYN B., (1974-1996), B.S.N., M.S., Ed.D.

MILLER, JOHN M., (1969-1987), B.S., M.Ed.

MORRIS, JOHN, (1967-1993), B.S., M.S.
MURRAY, MARCIA D., (1969-1988), B.A., M.A., M.F.A.
NAGLE, WILLIAM D., (1964-1995), B.A., M.A.
NAPOLI JR, VINCENT R., (1968-1999), B.A., M.A.
NEYENDORE, DORIS M., (1962-1981), B.S., M.A.
NICHOLS, CECIL B., (1961-1996), A.A., B.S., Ed.S.,
M.Ed., Ph.D.

NOLAN, DELORES F., (1961-1996), B.A., M.A. OBER, LEWIS D., (1960-1985), B.S., M.S. OCHS, ROBERT P., (1964-1996), A.A., B.Ed., M.Ed. OCONNOR, DOROTHY B., (1974-1992), B.S., M.Ed., Ed.D.

OLSON, JOSEPH L., (1963-1985), B.A., M.Ed. ORGELL, WALLACE H., (1967-1993), B.S., M.S., Ph.D. OSSIP, BARBARA A., (1964-1996), A.A., B.A., M.A., Ed.D.

OZAN, MAHMUT E., (1963-1993), B.A., M.Ed. PALOW, WILLIAM P., (1969-2003), B.S., M.Ed., Ed.D. PARRAGA, CHARLOTTE N., (1965-1985), B.A., M.Ed., Ph.D.

PATTERSON, ROBERT K., (1969-1993), B.S., M.S., Ed.D.

PEREZ-CAPOTE, JUAN M., (1977-1999), B.A., M.A.
PERRY JR, ROY A., (1968-1996), B.M., M.A.
PFAFF, ROBERT M., (1967-1992), B.Ed., M.A.
PIERCE, CHARLES C., (1965-1993), B.A., M.A.
PISTORINO, JOHN C., (1967-1995), B.S.E., M.S.
POITRAS, ADRIAN W., (1961-1983), B.S., M.S., Ph.D.
PORTER, DAVID K., (1968-1996), B.S., M.A., M.S.
POTTER, RAYMOND J., (1968-1992), B.A., M.A., Ph.D.
PREVATT, DOROTHY W., (1975-1996), B.S.Ed., M.Ed.
PRIMUS, WILLIAM T., (1968-2003), B.S., M.A., Ed.D.
PRYOR JR, JOHN H., (1971-2003), B.S., M.A., M.A.
EEAD, GABRIEL G., (1964-1996), B.Ed., M.Ed.
REICH, ROSLYN K., (1966-1997), B.S., M.Ed.

REQUE, ROSE S., (1968-1992), B.A., M.A., Ph.D.
REYNOLDS, EUNICE A., (1969-1996), B.S., M.Ed.
RICH, JANET C., (1967-1998), B.A., M.S., Ph.D.
RIECK, VICTOR H., (1969-1992), B.S., M.S.
RIVAS, DANIEL J., (1971-1992), B.S., M.A., Ph.D.
ROSE, JOHN G., (1977-1999), B.S., M.A., M.Ed.
ROSE, MARGARET G., (1967-2002), B.A., M.A.
ROTH, AUDREY D., (1963-1996), B.A., M.A., Ph.D.
RUCKER, SUZANNE S., (1961-1996), B.A., M.Ed.
RUMSEY, GEORGE A., (1964-1990), B.S., M.S.
SANDOVAL, HOWARD K., (1969-1996), B.S., M.A., Ph.D.

SANDOVAL, MERCEDES C., (1967-2003), B.A., M.A., Ph.D.

SAPHIRE, SRUL U., (1970-1990), B.A., B.S., M.A., Ed.D. SARGENT, FRANCES R., (1961-1986), B.S., M.B.A. SCHLAZER, ALBERT S., (1975-1997), B.Ed., M.A. SCHNEIDER, GEORGE H., (1961-1986), B.A., M.S. SCHOCH, ROSEMARY D., (1966-1986), B.M., M.S. SCHWARTZ, ALBERT, (1967-1988), B.A., M.S., Ph.D. SEAGER, CHARLES R., (1969-2003), B.S., M.S., Ph.D. SHAFFER, RICHARD D., (1960-1983), B.A., M.A., M.Ed.

SHANE, KENNETH V., (1964-1986), B.A., J.D. SHANNON JR, WILLIAM A., (1966-1991), B.A., M.B.A. SHERMAN, DAVID H., (1961-1982), B.A., M.Ed. SHEROUSE, EVE T., (1967-1987), B.S., M.A. SICARD, GERALD L., (1966-1996), B.A., B.S., M.A. SMITH, DOUGLAS R., (1960-1991), B.S.E., M.Ed. SMITH, MCGREGOR, (1966-1992), B.S., Ph.D. SMITH, RUTH C., (1961-1996), B.A., Ed.S., M.A. SNYDER, HARRY L., (1968-1987), B.A., M.D.V. SPIEGEL, HERBERT J., (1969-1992), B.S., M.S. SPITZER, DAVID D., (1964-1997), B.A., M.A. STEARNS, ROBERT W., (1972-1993), B.A., M.P.A. STEINBERG, RONALD F., (1966-1996), B.A., L.L.D. STEINER, JAMES J., (1963-1982), B.S., L.L.M. STOCKER, CARL E., (1964-1994), B.S., M.S., M.S., Ed.D.

STOKES, ROBERTA B., (1965-1998), B.S., M.A.

TAKOVICH JR, JOHN M., (1964-1996), B.S., M.S., Ed.D.

TAYLOR, CECIL J., (1967-1996), B.P.E., M.A.
TAYLOR, RAYMOND, (1962-1989), B.S., M.A.
TEBBS, DONALD E., (1968-1999), B.S., M.Ed.
TESSICINI, SALLY S., (1970-1995), B.E.A., M.EA.
THIELE, ROBERT R., (1966-1996), B.E.A., M.EA.

THOMAS, SHARON C., (1971-2007), B.A., M.A., Ph.D. THURBER, FRANK R., (1965-1995), B.Ed., M.Ed. TIERNEY, JOSEPH J., (1961-1983), B.S.Ed., M.A. TILLETT, WILLIAM S., (1969-1993), B.S., M.S. TINNIE, WALLIS W., (1971-1993), B.A., M.A. TIZIANI, DONALD B., (1965-1990), M.Ed. TOMLIN, BILLIE S., (1966-2003), B.S., M.A. TRACY, EVELYN H., (1965-1991), A.A., B.A., M.A., Ed.D.

TUCKFIELD, GLORIA S., (1966-1990), B.S., M.A., Ph.D.

TURK, ROBERT A., (1961-1989), B.A., Ed.S., M.A., M.Ed., Ed.D.

WALZER, JOSEPH F., (1966-1989), B.A., B.B.A., M.B.A. WARNER, JORGE I., (1966-1997), B.S., M.S., P.D. WARNOCK, RONALD H., (1965-1998), B.S., M.S., Ph.D.

WATKINS, NORMA L., (1970-1996), B.A., M.A., Ph.D. WATTERS, ROBERT D., (1967-1996), B.A., M.S. WEBB, MARTHA C., (1962-1990), B.Ed., M.A. WENZEL, GUSTAVE G., (1963-1990), B.A., M.A. WERNERT, JAMES E., (1967-1997), B.A., M.A. WEST, FELICIA M., (1961-1983), B.S., M.Ed. WHITE, CAROLYN B., (1969-1994), B.A., M.A., Ed.D. WILCOSKY, ROBERT W., (1975-), A.S., B.Ed., M.Ed. WILLCOX, WANDA M., (1963-1985), B.Ed., M.Ed., Ed.D.

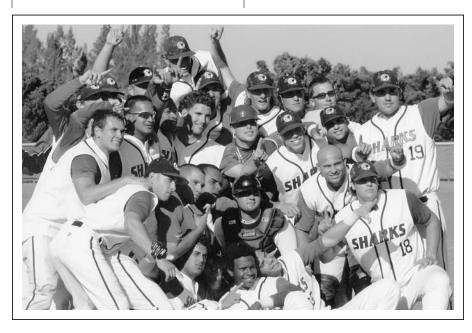
WILLIAMS, KEITH W., (1964-1993), B.A., M.A., M.D.V. WILLOUGHBY, LOIS J., (1974-2008), B.A., M.Ed., Ed.D.

WILSON, SUSAN U., (1973-1993), B.S., M.S. WINE, HENRY E., (1965-1989), B.A., B.S.Ed., M.S. WINEBRENNER, LAWRENCE M., (1964-1994), B.A., Ed.S., M.D.V., M.Ed.

WINET, ALAN, (1969-1990), B.S., M.A., M.A. WORLEY, WILLIAM D., (1969-1988), B.S., M.A. YAFFA, HAROLD, (1964-1998), B.A., M.A. ZABSKY, HAROLD J., (1965-1996), A.S., B.S., M.S. ZALMANOVICH, MORRIS H., (1969-1991), B.S.,

ZEIEN, JOHN A., (1967-2003), A.A., B.A., M.Ed., Ed.D. ZINGALE, JOSEPH L., (1966-1987), B.A., B.S., Ph.D. ZION, CAROL L., (1960-1989), B.A., B.Ed., M.S., Ph.D. ZUCKERMAN, CLAIRE S., (1968-1993), B.B.A., M.A., M.S.

ZUCKERMAN, IRVING H., (1967-1992), B.A., L.L.M., M.A., J.D.



585

WWW.MDC.EDU

Miami Dade College Foundation Inc.

2008 Board of Directors

Sheldon T. Anderson, *Chair* President, Miami-Dade County Northern Trust Bank

Penny Shaffer, Ph.D., *Vice Chair* Market President of South Florida BlueCross BlueShield of Florida

Jorge L. López, Esq., Secretary Attorney

Jorge Luis López Law Firm

Miguel G. Farra, CPA, *Treasurer* Partner Morrison, Brown, Argiz, & Farra, LLP

Helen Aguirre Ferré Opinion Page Editor Diario Las Americas

Emilio F.Azcárraga J. Chairman, President and CEO Grupo Televisa, S.A.

Marshall M. Criser III President AT&T Florida

Albert E. Dotson, Jr., Esq.
Partner
Bilzin Sumberg Baena Price & Axelrod, LLP

Arthur J. Furia, Esq.
Partner
Gunster Yoakley & Stewart, P.A.

Augusto Gil President Gil Development Inc.

Gregory Gray, Ed.D. Kendall Campus President

Miami Dade College
Beatrice Louissaint

President and CEO Florida Regional Minority Business Council

Ana Navarro

Consultant Eduardo J. Padrón, Ph.D. President

Miami Dade College Pedro Pizarro Chairman and CEO

eLandia International Inc. Peter W. Roulhac

The Orange Bowl Foundation

Alexandra Villoch Sr. Vice President, Advertising and Marketing The Miami Herald Media Co.

Louis Wolfson III President Venture W Corp.

CEO



Academic Definitions

The following are definitions of terms with which the reader may not be familiar:

Academic Year: Beginning of the fall term to the end of the summer term; approximately from the end of August to the end of the following July.

Advanced Technical Certificate: These are state-approved advanced specialized programs designed for students who already have an Associate in Science degree and wish to supplement their degree.

Basic Skills Assessment: A test that enables the College to identify the student's academic strengths and weaknesses in reading, writing, and math skills to be used to provide advisement and placement in courses. See Computerized Placement Test (CPT).

College Credit: A unit of work in a subject, generally equivalent to one hour of class or two hours of laboratory a week for a regular sixteen (16) week term. Thus, a three-credit class meets for three class hours a week or two class and two laboratory hours. There is some variance in this rule for laboratory, clinical, and studio courses.

College Credit Certificate Programs: These are state-approved programs that are an integral part of an Associate in Science degree program, but culminate in a college credit certificate after approximately 24 credits.

College Level Academic Skills Test (CLAST): An achievement test required for graduation with an Associate in Arts degree or admission to the upper division of state universities in Florida.

College Prep: College prep courses address basic skills deficiencies and are designed to prepare students for college level work. Students are advised into these courses through self-referral, test scores and faculty referral. These courses do not satisfy degree requirements.

Computerized Placement Test (CPT): An untimed computerized test in four sections (Reading Comprehension, Sentence Skills, Arithmetic and Elementary Algebra) administered to assess the basic skills level of students entering a degree program.

Community Education Courses: Courses that do not award academic credit (non-credit), but are offered for persons who wish to improve their personal efficiency, professional or business related skills and competencies, or enrich their personal lives.

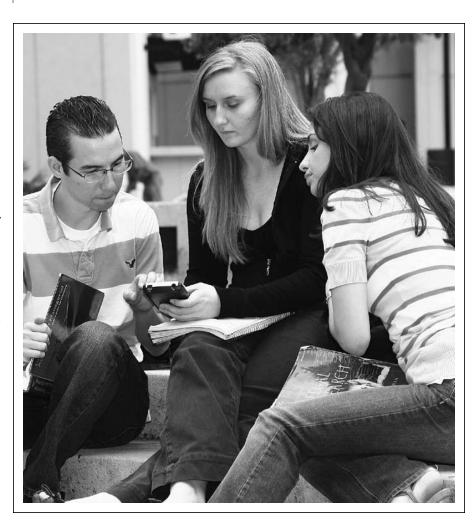
Continuing Education Unit (CEU): Miami Dade awards CEUs for successful completion of Continuing Education non-credit CEU activities. One CEU is awarded for 10 contact hours, and is recorded on the student's permanent record.

Corequisite: A course, which must be taken simultaneously with another course.

Curriculum: A specific program of study comprised of courses leading to a degree or certificate.

Elective: A subject or course, which a student may choose to take as distinguished from a "required course" in a program of study.

Full-Time Student: A student who is enrolled for 12 credits or more in the



16-week terms and six credits or more in the six-week terms. Credits taken in a 12-week term (summer A and summer B) count as half value in each six-week term. Credits enrolled for audit or by departmental examination do not count in computation of full-time status.

In specialized circumstances, the College may define full-time student status as less than the above. This special College-defined status would occur only in unusual circumstances related to the College's Standards of Academic Progress program.

Grade Point Average: The ratio of grade points earned to credits attempted. (See grade point average in Academic Regulations section.)

Major: The designation given to the complete group of courses necessary to fulfill the requirements for graduation in a specific field of endeavor (i.e., business administration, engineering, etc.).

Occupational Programs: College credit programs leading to an Associate of Science degree.

Prerequisite: An academic requirement, which must be met before a certain course can be taken.

Program: A curriculum or series of courses leading to a degree or certificate in a specific field of endeavor.

Registration: Process of enrolling for classes, selection of courses by day and hour and the payment of fees.

Semester: See Term.

Standards of Academic Progress: Standards of satisfactory academic performance; for details and definitions, see Standards of Academic Progress on page 40.

Supplemental Vocational Education Courses: These courses are for students currently or previously employed in a job category where skill upgrading is required to maintain current employment or to advance within their career field.

TABE: Test of Adult Basic Education administered to students enrolled in Career Technical Education Programs.

Term: A subdivision of the academic year, i.e., fall, spring, summer A and summer B terms.

Major term: fall and spring, approximately sixteen (16) weeks each.

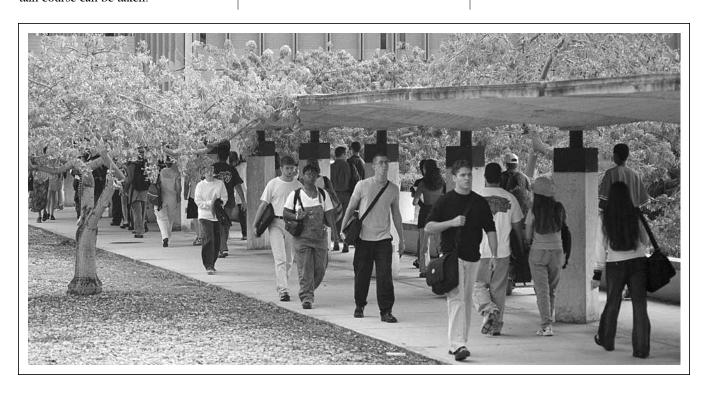
Short Term: summer A and summer B, *six (6) weeks each. Courses meet additional contact hours per week during the summer A/summer B terms.

* Note: Some courses are scheduled for the combined summer A/summer B term of 12 weeks.

Transcript: A certified copy of the student's academic record.

Vocational Credit: A unit of work in a subject based on 30 contact hours of classroom participation (or equivalent for work experience).

Career Technical Education Programs (CTE): These programs are defined by the state of Florida and consist of courses valued in vocational credits. Career Technical Education programs are designed to lead to immediate job entry upon completion. Those who complete a Career Technical Education program receive a Career Certificate and are entitled to attend graduation exercises.



Miami Dade College Learning Outcomes

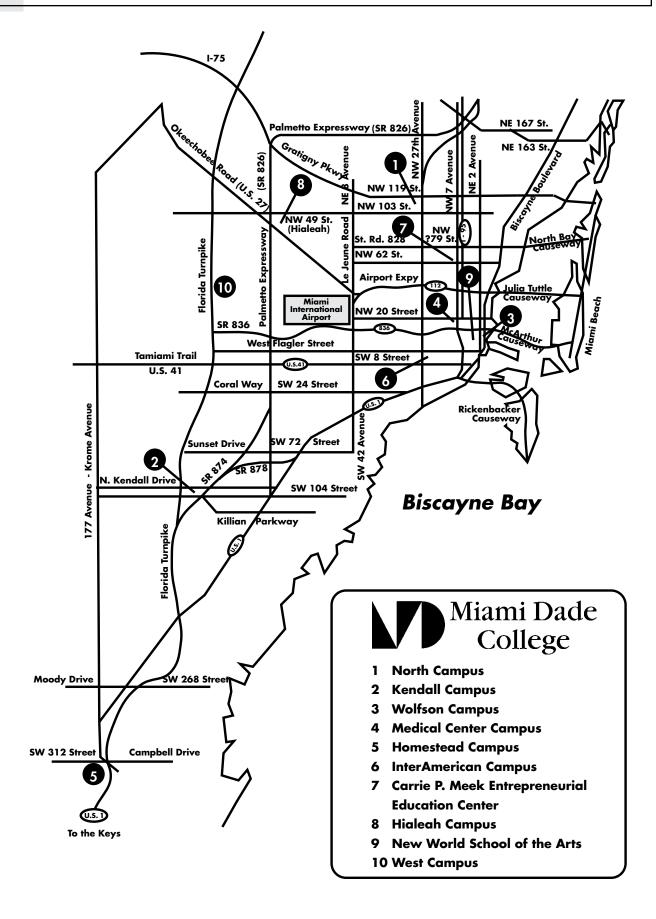
All students who graduate from MDC - regardless of major or degree type - have 10 things in common: the college-wide student learning outcomes summarized below. Developed after many conversations with students, faculty, alumni and members of the business community, the outcomes are part of all programs regardless of major or degree type. They will assist you to succeed in your chosen field, to strengthen the life skills critical to your future, and to become a lifelong learner.

- Communications Knowing what you've learned doesn't mean much if you can't express it. All students should be able to communicate well.
- 2. Quantitative Analysis Numbers are everywhere from the calories in your favorite soda to political polls. All students should be able to process, understand and accurately analyze numerical data.
- Critical/Creative Thinking and Scientific Reasoning - There's no guarantee that you'll know all the answers by the time you graduate, but you will develop the skills to think through a situation and arrive at a logical conclusion.
- 4. Information Literacy Why are there concerns about Wikipedia as an acceptable research tool? By the time you graduate, you'll know the pros and cons of using Internet resources and be able to locate relevant and accurate information resources.
- 5. Global, Cultural and Historical Perspectives - Thanks to the World Wide Web and telecommunication, we are aware of many ways of life across the world. In order to succeed in this global society, students need to develop an appreciation of various cultures and an understanding of different points of view.
- Personal, Civic and Social Responsibility - While at MDC,

- you'll develop skills to fulfill not only your personal responsibilities, but also your roles as citizens and members of a global community. For example, John Donne said, "No man is an island." Everything you do and say has an impact on those around you.
- 7. **Ethical Thinking** Prevalent among newspaper headlines from the past ten years are terms like "Stem Cell Research," "Cheating in High School," and "Euthanasia." Your course of study will help you develop strategies and values in ethical thinking to help you understand these and other controversial issues.
- Computer and Technology Usage - You can probably surf

- the net and send e-mails already, but there are many other powerful tools at your fingertips. Before you graduate, you will learn how to use word processing, spreadsheets, databases and presentation programs as well.
- Aesthetic Appreciation -Appreciating the creative process is an essential part of being a wellrounded individual.
- 10. Natural Systems and the Environment What exactly is trans fat? Is tap water a pure substance or a mixture? How does carbon dioxide affect our atmosphere? An understanding of natural systems is important in caring for your health and the world around you.

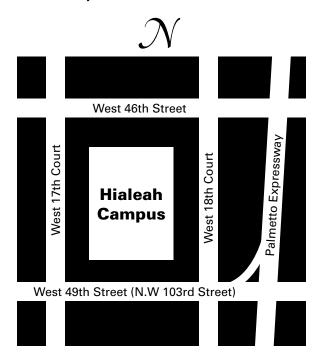




287

Hialeah Campus

1776 W. 49th St. Hialeah, FL 33012



Important Phone Numbers

305-237-8775 • Admissions Information

305-237-8775 • Registration Information

305-237-8794 • Academic Advisement Information

305-237-8773 • Financial Aid Information

305-237-8701 • Campus Security

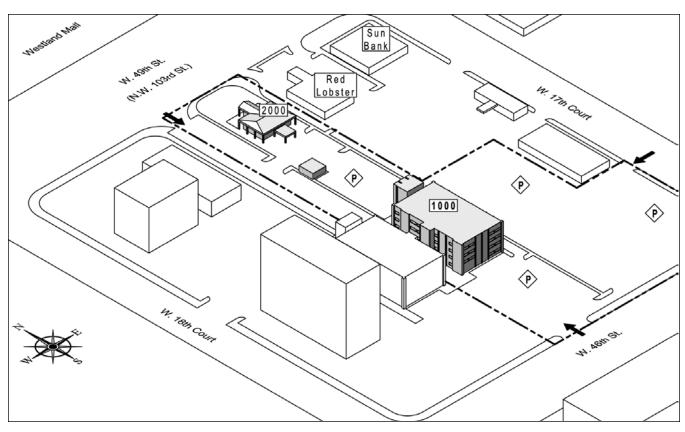
305-237-8700 • Testing Information

Key to Campus Locations

1000 Classrooms Building

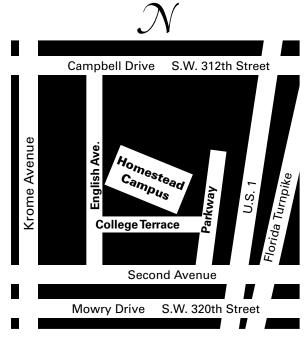
2000 Student Services/Admissions

P Parking



Homestead Campus

500 College Terrace Homestead, FL 33030



Important Phone Numbers

305-237-5555 • Admissions Information

305-237-5555 • Registration Information

305-237-5064 • Academic Advisement Information

305-237-5024 • Financial Aid Information

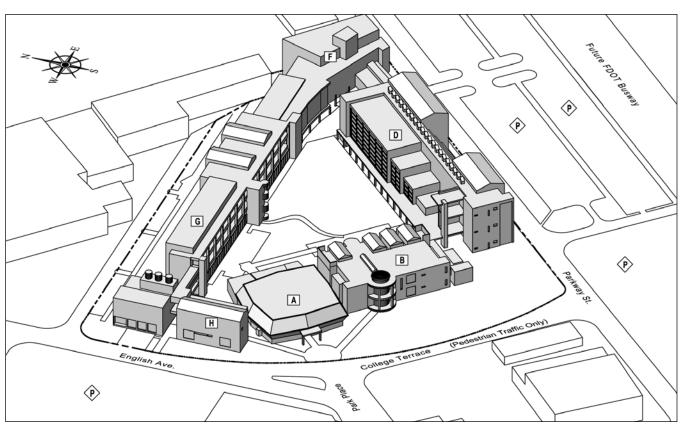
305-237-5100 • Campus Security

305-237-5019 • Registrar Fax

305-237-5105 • Testing Information

Key to Campus Locations

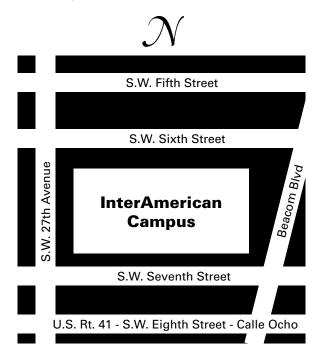
- A Registration and Student Services
- B Faculty/Administration
- D Information and Technology Center
- F Aviation Training Complex
- G Classrooms/Laboratories
- H Central Physical Plant
- P Visitors' Parking on Parkway Street





InterAmerican Campus

627 S.W. 27th Ave. Miami, FL 33135



Important Phone Numbers

305-237-6020 • Admissions Information

305-237-6044 • Registration Information

305-237-6133 • Academic Advisement

305-237-6040 • Financial Aid Information

305-237-6100 • Campus Public Safety

305-237-6041 • Testing Information

305-237-6000 • Campus Main Number

305-237-6045 • Student Services Information

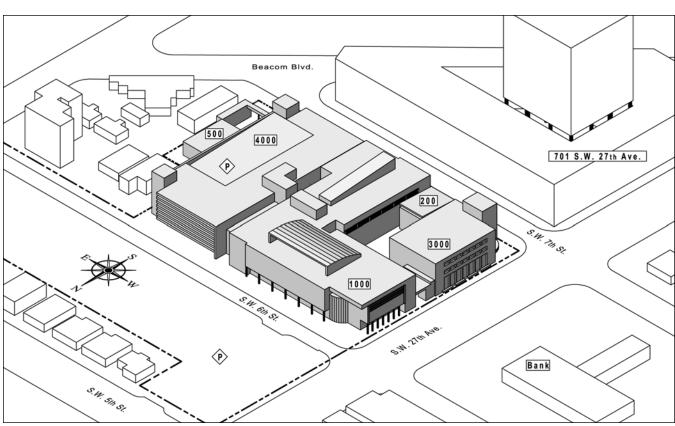
Key to Campus Locations

1000 Administrative & Faculty Offices, Classrooms, Student Services, Computer Courtyard and Other Labs

200 Instructional Building

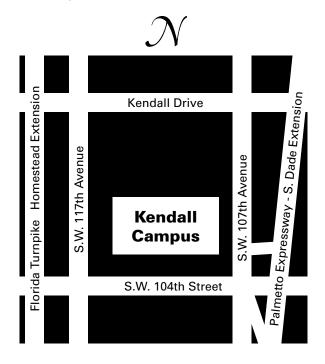
3000 Classrooms and Laboratories

4000 Parking Structure500 Service BuildingP Public Parking



Kendall Campus

11011 S.W. 104th St. Miami, FL 33176



Important Phone Numbers

305-237-2222 • Admissions Information

305-237-2222 • Registration Information

305-237-2125 • Academic Advisement

Information

305-237-2325 • Financial Aid Information

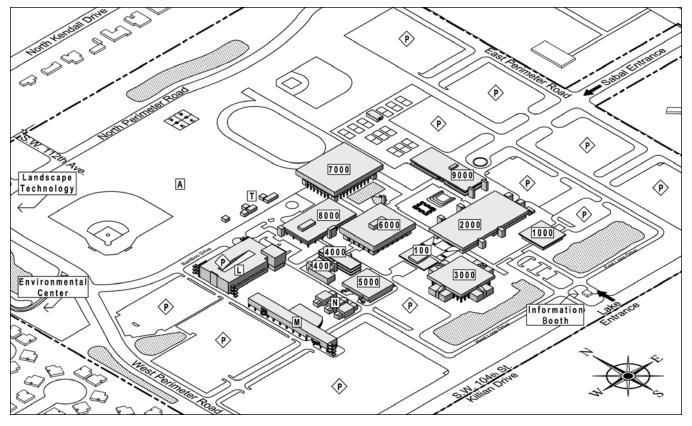
305-237-2100 • Campus Security

305-237-2964 • Registrar Fax

305-237-2341 • Testing Information 305-237-2161 • Community Education

Key to Campus Locations

	<u> </u>
100	Student Life
1000	Peter Masiko Hall/Human Resources
2000	Niles Trammel Center/Library/
	Computer Courtyard
3000	Leonard Usina Hall/Student Services
4000	Daniel K. Gill Hall
5000	Fine Arts Building Annex/Public Safety
6000	Alfred L. McCarthy Hall
7000	Theodore R. Gibson Center/Gym
8000	Maria C. Hernandez Center/Bookstore,
	Cafeteria
9000	Jack Kassewitz Hall
400	Dante & Jeanne-Marie Fascell
	Conference Center
Α	Athletic fields
E	Environmental Center
L	Parking Garage
M	Martin & Pat Fine Center for the Arts
N	Art Studio Building

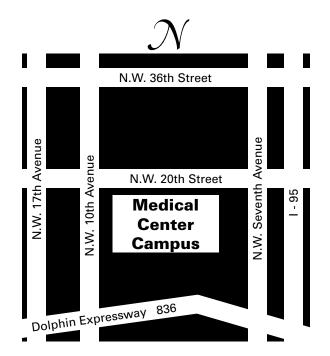


Т

Trailers

Medical Center Campus

950 N.W. 20th St. Miami, FL 33127



Important Phone Numbers

305-237-4444 • Admissions Information

305-237-4444 • Registration Information

305-237-4141 • Academic Advisement Information

305-237-4444 • Financial Aid Information

305-237-4141 • New Student Center

305-237-4100 • Campus Security

305-237-4141 • Vocational Certificate
Student Resource Center

305-237-4275 • Testing Information

Key to Campus Locations

1000 Anna Brenner Meyers Hall

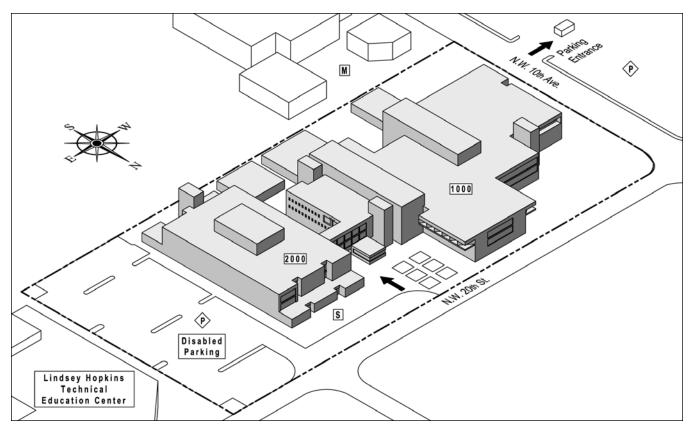
2000 Nursing/Allied Health

P Parking

M Medical Examiner Center -

Dr. Joseph Davis Forensic Pathology

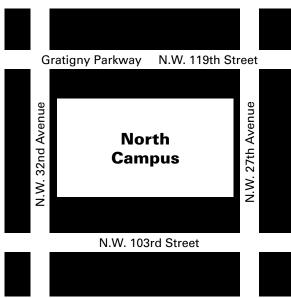
S Shuttle Pick Up/Drop Off



NOTH COMPUS 11380 N.W. 27th Ave.

Miami, FL 33167

 \mathcal{N}



Important Phone Numbers

305-237-1149 • New Student Center

305-237-1111 • Admissions Information

305-237-1111 • Registration Information

305-237-1425 • Academic Advisement Information

305-237-1058 • Financial Aid Information

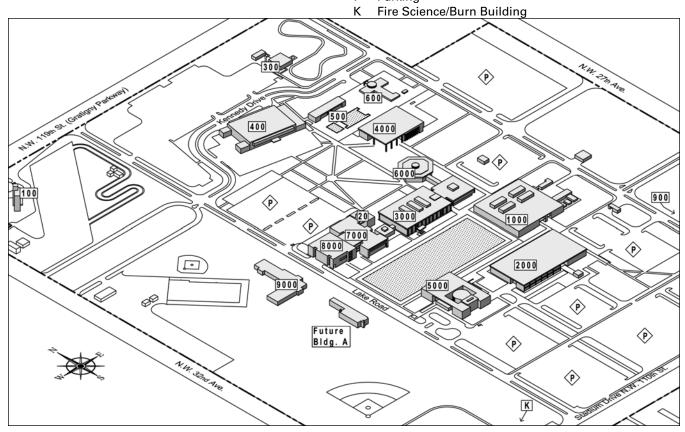
305-237-1100 • Campus Public Safety

305-237-1000 • Campus Main Number

305-237-1015 • Testing Information

Key to Campus Locations

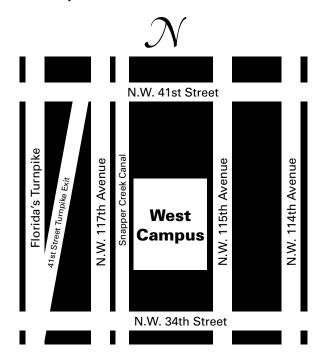
- 20 Environmental Science Technology Building
- 100 Chief Milton O. Bullock Fire Science Academy
- 300 Building 300
- 400 John F. Kennedy Health Center (Gym)
- 500 Aquatic Center
- 600 Pre-School Laboratory
- 1000 Paul R. Scott Hall Registration and Student Services
- 2000 Mitchell Wolfson Learning Resources Hall/Library
- 3000 J. Nevelle McArthur Hall of Business and Technology
- 3000 Annex W. L. Philbrick School of Funeral Sciences
- 4000 LeRoy Collins Campus Center/Student Life
- 5000 William D. Pawley Creative Arts Center and the
 - William & Joan Lehman Theatre
- 6000 Developmental Studies Center
- 7000 Garth C. Reeves Hall
- 8000 School of Justice & Safety Administration
- 9000 School of Justice
 - A Science Complex (future site)
 - P Parking



293

West Campus

3800 N.W. 115th Ave. Doral, FL 33178



Important Phone Numbers

305-237-8900 • Admissions Information

305-237-8900 • Registration Information

305-237-8940 • Academic Advisement Information

305-237-8941 • Financial Aid Information

305-237-8100 • Campus Security

305-237-8947 • Testing Information

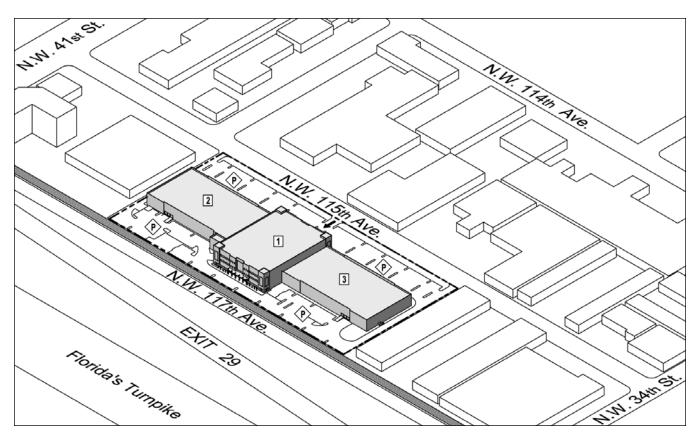
Key to Campus Locations

1 Central Building/Classrooms

2 North Wing

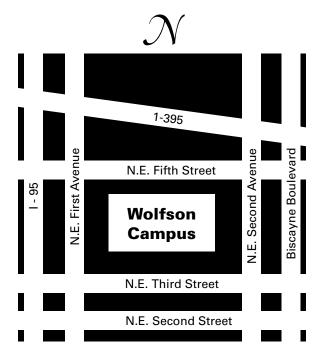
3 South Wing

P Parking



Wolfson Campus

300 N.E. Second Ave. Miami, FL 33132



Important Phone Numbers

305-237-3076 • New Student Center

305-237-3131 • Admissions/ Registration Information

305-237-3077 • Academic Advisement Information

305-237-3244 • Financial Aid Information

305-237-3011 • Testing Information

305-237-3100 • Campus Security

305-237-3358 • Career & Transfer Center

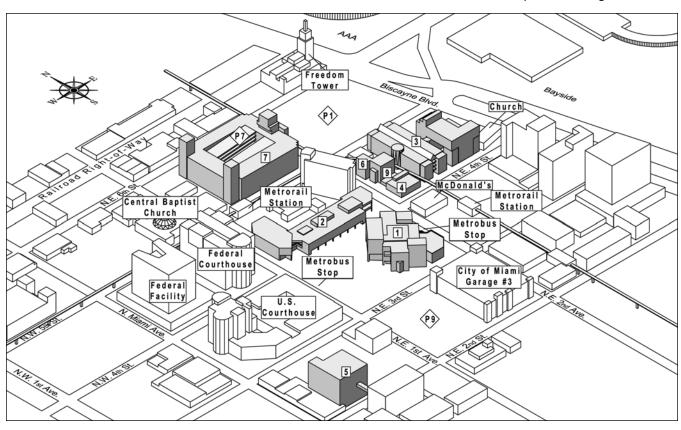
305-237-3358 • Job Placement

305-237-3072 • Access Services

305-237-3536 • Student Life

Key to Campus Locations

- Administration
- 2 Student Life and Auxiliary Services
- 3 Student Services
- 4 MDC Foundation
- 5 New World School of the Arts
- 6 Mail Room and Instructional Facilities
- 7 ETCOTA and Parking Garage
- 8 Miami Fire Station Number One
- 9 Sign and Banner Print Shop
- P1 Faculty/Staff Parking
- P7 Student/Faculty/Staff Parking
- P9 Student Faculty/Staff Parking



Planning Ahead

2008
2009
2010



INDEX

About Miami Dade College 6
Academic Calendar
Academic Definitions
Academic Offerings Table of Contents
Course Information
Florida's Statewide Course Numbering System
Course Offerings
Course Description
Academic Offerings
Academic Programs Table of Contents
Academic Regulations Table of Contents
Academic Regulations
Attendance in Class
Audit
Course Load
Grading System
Grade Point Average (GPA)
Repeating Courses
Incomplete "I" Grade
Grade Appeals
Academic Amnesty
Petitions Committee
Student Ombudsman
Standards of Academic Progress (SOAP)
Academic Standards
Academic Warning
Academic Probation
Academic Suspension
Academic Dismissal
Standards of Progress for Students Receiving Financial Aid 41
Standards of Progress for Veterans
Suspension
Transcript of Records
Withdrawals
Administrative Withdrawal from Courses
Withdrawal from College
Withdrawal from Courses
Academy of International Marketing Program (C.T.E.)
Accounting Applications Program (C.C.C.)
Accounting Operations Program (C.T.E.)
Accounting Program
Accounting Technology Program

Accreditations ii
Addiction Studies
Additional Offerings
Health Sciences & Related Studies Department
Community Education, Medical Center Campus
Contract Education & Custom Designed Courses
Refresher Courses
Remediation Courses
Licensing Examination Review Courses
Contact Hours for Re-Licensure
Cross-Training/Multi-Skilling
Internships/Preceptorships
Administration & Faculty
Administrative Assistant Program (C.T.E.)
Administrative Withdrawal from Courses
Admissions & Financial Aid Table of Contents
Admissions Information
Admissions Criteria
Admissions to Post-Secondary Adult Vocational Programs (PSAV)
Credit Certificate Programs
How to Apply
Transfer Student Information
Transient Student Information
Non-Degree Applicants
Special Admissions Categories
Early Admission
Readmission to the College
College Preparatory Courses
Eligibility for Placement Into Select College Programs
& Programs Leading to Licensure
General Education Development (GED) Tests & Diplomas 17
Teacher Certification Information
Florida Residency
Residency for Tuition Purposes
International Student Admissions
Admission to Continuing Education (Non-College Credit)
Programs & Courses
Fees & Refunds
Fee Policy for Repeated Courses
Refund Policy
Payment Policy
Florida Pre-Paid Tuition Program

Admissions Procedures & Supporting Credentials
Admissions to College Credit Programs
Admissions
Advanced Technical Certificate Programs
Agriculture Program56
Air Cargo Agent Program (C.C.C.)
Air Conditioning Refrigeration/
Heating Systems Technology Program
Airline/Aviation Management Program (C.C.C.)
Airport Management Program (C.C.C.)
Allied Health/ Nursing Programs
Allied Health/Nursing Program Admission
Student Selection/Progression
Special & Additional Requirements to Specific A.S. Degree
Programs: Emergence Medical Services, Health Information
Management, Nursing, Radiologic Technology 86
Anthropology Program
Application Priority Deadline
Apprenticeships
Electricity Apprenticeships 81
Fire Sprinkler Apprenticeship
Heating, Ventilation, & Air Conditioning (HVAC)
Plumbing Apprenticeship
Sheet Metal Apprenticeship
Architectural Design & Construction Technology Program
Architecture Program
Area & Ethnic Studies Program
Art or art Education Program
Articulation
Inter-institutional Articulation Agreement
State of Florida Articulation Agreements
Independent Colleges & Universities of Florida (ICUF)52
Additional Agreements
Associate in Arts Degree
A.A. Degree Programs
A.A. Degree University Parallel Programs
Associate in Science/Associate of Applied Science
A.S. College Credit Programs
Atmospheric Science & Meteorology Program
Automotive Service Management Technology
Aviation Administration Program
Aviation Maintenance Management
Baccalaureate Degree In Education
Admissions Requirements for the Baccalaureate Programs 55
1

Educator Preparation Institute (EPI)55
Bail Bond Agent Program (C.T.E.)
Banking Management Program (C.C.C.)
Banking Operations Program (C.C.C.)
Banking Specialist Program (C.C.C.)
Biology Program57
Biomedical Engineering Technology Program
Biotechnology Program (A.A.)
Biotechnology Program (A.S.)
Biotechnology Program (A.T.C)
Biotechnology Program (C.C.C)
Board of Trustees
Building Construction Program
Building Construction Technology Program
Business Administration Program (A.A.)
Business Administration Program (A.A.S.)
Business Administration Program (A.S.)
Business Computer Programming Program (C.T.E.)
Business Management Program (C.C.C.)
Business Operations Program (C.C.C.)
Business Specialist Program (C.C.C.)
Business Supervision & Management Program (C.T.E.) 80
Calendar
Calendar, Academic
Campus Activities
Clubs & Organizations
Intercollegiate Athletics
Student Government Association
Student Publications
Campuses & Facilities
Career Technical Education Certificate Programs 51,79
Certified Flight Instructor Program (A.T.C.)
Chemistry Program
Cisco Network Associate Program (C.C.C.)
Civil Engineering Technology Program
College Credit Certificate Programs50
Collegewide Schools
School of Allied Health Technologies
School of Architecture & Interior Design
School of Aviation
School of Business
School of Community Education
School of Computer & Engineering Technologies
School of Education



School of Entertainment & Design Technologies
School of Fire & Environmental Sciences
School of Justice
School of Nursing
Commencement
Computer Arts Animations Program
Computer Engineering Technology Program
Computer Information Systems Program
Computer Information Technology Program
Computer Programming & Analysis Program
Computer Programming Program (C.C.C.)
Computer Science Program
Computer Specialist Program (C.C.C.)
Computer-Aided Design Assistant Program (C.C.C.)
Computer-Aided Design Operator Program (C.C.C.)
Correctional Officer - County Program (C.T.E.)
Correctional Officer - State Program (C.T.E.)
Course Descriptions
Course Offerings
Court Reporting Technology Program
Criminal Justice Administration Program
Criminal Justice Technology: Basic Law Enforcement Program 65
Criminal Justice Technology: Corrections Program
Criminal Justice Technology: Generic Program
Crossover from Corrections Officer to
Law Enforcement Officer Program (C.T.E.)
Customer Assistance Technology Program (C.T.E.) 80
Dance Program
Database Technology Program
Dental Hygiene Medical Program (A.S.)
Diagnostic Medical Sonography Technology Medical Program (A.S.) 88
Dietetics Program
Drafting & Design Technology Program
Drama or Drama Education Program
Early Childhood Education Program (C.T.E.)
Early Childhood Education Program
Economics Program
Electrical Power Technology
Electronic Technology (C.T.E.)
Electronics Engineering Technology Program
Emergency Medical Services Medical Program (A.S.)
Emergency Medical Technician - Basic Medical Program (C.C.C.) 94
Engineering Program
English Literature & English Education Program

Environmental Science Technology Program6	66
Environmental Studies Program	8
Equal Access/Equal Opportunity	ii
Exercise Program	9
FERPA	64
Film Production Technology Program	57
Financial Aid Information	25
Student Financial Aid	25
Philosophy of Financial Aid	25
What is Financial Need	25
How to Apply (Financial Aid)	25
Application Priority Deadline	25
Verification	25
Reapplying	26
Basis on which Financial Aid Granted	26
Who Qualifies for Financial Aid	26
Refunds & Repayments	26
Miami Dade College Student Assistance Program	26
Short Term Loans	26
Tax Help for Educational Expenses	26
Veterans Administration Assistance	
Other Sources of Financial Assistance	26
Accessing the Financial Aid Office	26
Financial Services Program	
Fire Fighting Program (C.T.E.)	31
Fire Science Technology Program	
Food & Beverage management Program (C.C.C.)	76
Foreign Language Program	
Forestry Program5	
Funeral Services Program	5 7
General Education Requirements	
for the Associate in Arts Degree	í8
Other Assessment Procedures for College Level	
Communications & Computation Skills	í9
General Education Requirements for the Associate in Science/	
Associate in Applied Science Degrees	50
Geology Program	
Graduation Requirements & Transfer Information Table of Contents 4	
Graduation Requirements & Transfer Information	
Graduation Requirements	
Continuous Enrollment for Graduation Requirements	
Requirements for all Associate Degrees	
Baccalaureate Degree	
General Education Gordon Rule & CLAST	
General Laucation Gordon Ruic & GLAST	,

	1111	JEA
2	9	9

Computer Skills Competency45	International Relation
Final 30 Credit Hours in Residency Requirement	Internet Services Te
Requirements for Certification to Upper Division	Interpretation Studi
Education Majors (B.S.)	Spanish/English
Public Safety Management (B.A.S.)	Landscape Architect
Bachelor of Science in Nursing (B.S.N.)	Landscape Technolo
General Education Requirements	Law Enforcement O
Foreign Language Requirements	Legal Administrative
Requirements for the Major	Maps
Dual Degree Versus Double Major	Marketing Managem
Associate in Science/Associate in Applied Science 47	Marketing Operation
Requirements for an Associate in Science/	Mass Communication
Associate in Applied Science Degrees	Massage Therapy Ac
General Education & Miami Dade College Student	Massage Therapy Ge
Learning Outcomes	Massage Therapy Tra
Graphic Arts Technology Program	Mathematics Progra
Graphic Design Technology Program	Medical Assisting Me
Graphic Internet Technology Program	Medical Coder/Bille
Graphic or Commercial Arts Program	Medical Laboratory
Health Information Management Medical Program (A.S.)	Medical Record Tran
Health Services Administration Program	Miami Dade College
Histologic Technology Medical Program (A.S.)	Microcomputer Rep
History Program	Microsoft Database
Hospitality & Tourism Management Program (A.A.S.)	Microsoft Solutions
Hospitality & Tourism Management Program	Midwifery Medical l
Hospitality Administration/Travel & Tourism Management Program. 59	Mission Statement .
Human Services Addiction Studies	Mortgage Finance P
Human Services Generalist	Music Business Prog
Industrial Management Technology Program	Music or Music Edu
Infant/Toddler Specialization (C.C.C.)	Network Support Se
Information & Policies	Network Systems D
AIDS Policy	Networking Service
Automobiles on Campus	Nuclear Medicine Te
Family Educational Rights & Privacy Act (FERPA)	Nuclear Medicine Te
Grievance Policy	Nursing R.N. (Accel-
Housing	Nursing R.N. Bridge
Identification	Nursing R.N. Bridge
Students' Rights & Responsibilities	Nursing R.N. Generi
Safety & Security	Nursing R.N. Generi
Information Technology Support Program (C.C.C.)	Office Administratio
Instructional Services Technology	Office Management
Insurance Marketing Program (C.T.E.)	Office Specialist Pro
Interior Design Program. 59	Office Support Prog

Computer Skills Competency	International Relations
Final 30 Credit Hours in Residency Requirement	Internet Services Technology Program
Requirements for Certification to Upper Division	Interpretation Studies Program (C.C.C.):
Education Majors (B.S.)	Spanish/English Track or Haitian-Creole/English Track
Public Safety Management (B.A.S.)	Landscape Architecture
Bachelor of Science in Nursing (B.S.N.)	Landscape Technology Program
General Education Requirements	Law Enforcement Office Program (C.T.E.)
Foreign Language Requirements	Legal Administrative Specialist Program (C.T.E.)
Requirements for the Major	Maps
Dual Degree Versus Double Major	Marketing Management Program
Associate in Science/Associate in Applied Science	Marketing Operations Program (C.C.C.)
Requirements for an Associate in Science/	Mass Communication/Journalism Program
Associate in Applied Science Degrees	Massage Therapy Accelerated Option Medical Program (C.T.E.)94
General Education & Miami Dade College Student	Massage Therapy Generic Option Medical Program (C.T.E.) 94
Learning Outcomes	Massage Therapy Transitional Option Medical Program (C.T.E.) 95
Graphic Arts Technology Program	Mathematics Program
Graphic Design Technology Program	Medical Assisting Medical Program (C.T.E.)
Graphic Internet Technology Program	Medical Coder/Biller Medical Program (C.T.E.)
Graphic or Commercial Arts Program	Medical Laboratory Technology Medical Program (A.S.)
Health Information Management Medical Program (A.S.)	Medical Record Transcribing Medical Program (C.T.E.)
Health Services Administration Program	Miami Dade College History
Histologic Technology Medical Program (A.S.)	Microcomputer Repairer/Installer Program (C.C.C.)
History Program	Microsoft Database Administrator Program (C.C.C.)
Hospitality & Tourism Management Program (A.A.S.)	Microsoft Solutions Developer Program (C.C.C.)
Hospitality & Tourism Management Program	Midwifery Medical Program (A.S.)
Hospitality Administration/Travel & Tourism Management Program. 59	Mission Statement
Human Services Addiction Studies	Mortgage Finance Program (C.C.C.)
Human Services Generalist	Music Business Program
Industrial Management Technology Program	Music or Music Education Program
Infant/Toddler Specialization (C.C.C.)	Network Support Services Program (C.T.E.)
Information & Policies	Network Systems Developer Program (C.T.E.)
AIDS Policy	Networking Services Technology Program
Automobiles on Campus	Nuclear Medicine Technology Medical Program (A.S.)
Family Educational Rights & Privacy Act (FERPA)	Nuclear Medicine Technology Specialist Medical Program (C.C.C.) . 94
Grievance Policy	Nursing R.N. (Accelerated) Medical Program (A.S.)
Housing35	Nursing R.N. Bridge (Full-Time) Medical Program (A.S.)
Identification	Nursing R.N. Bridge (Part-Time) Medical Program (A.S.)
Students' Rights & Responsibilities	Nursing R.N. Generic (Full-Time) Medical Program (A.S.)90
Safety & Security	Nursing R.N. Generic (Part-Time) Medical Program (A.S.)90
Information Technology Support Program (C.C.C.)	Office Administration Program
Instructional Services Technology	Office Management Program (C.C.C.)
Insurance Marketing Program (C.T.E.)	Office Specialist Program (C.C.C.)
Interior Design Program	Office Support Program (C.C.C.)
Interior Design Technology Program	Open Door Policy



Opticinary Medical Program (A.S.)
Oracle Database Administrator Program (C.C.C.)
Oracle Database Developer Program (C.C.C.)
Other College Credit Programs & Vocational Credit Programs 73
Advanced Technical Certificate Programs (A.T.C)
Paralegal Studies Program
Paramedic Medical Program (C.C.C.)
Passenger Service Agent Program (C.C.C.)
PC Support Services Program (C.T.E.)
Pharmacy Technician Medical Program (C.T.E.)
Philosophy Program
Phlebotomy Medical Program (C.T.E.)96
Photographic Technology Program
Physical Education Teaching & Coaching Program 61
Physical Therapist Assistant Medical Program (A.S.)
Physician Assistant Medical Program (A.S.)
Physics Program 61
Police Service Aide Program (C.T.E.)
Political Science Program
Practical Nursing (C.T.E.)
Pre-Bachelor of Arts
Pre-Law Program
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61 Pre-Physical Therapy Program 62
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61 Pre-Physical Therapy Program 62 Private Security Officer Program (C.T.E.) 83
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61 Pre-Physical Therapy Program 62 Pre-Veterinary Medicine Program 62 Private Security Officer Program (C.T.E.) 83 Professional Organizations & Association Memberships ii
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61 Pre-Physical Therapy Program 62 Private Security Officer Program (C.T.E.) 83 Professional Organizations & Association Memberships ii Professional Pilot Technology Program 71
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61 Pre-Physical Therapy Program 62 Private Security Officer Program (C.T.E.) 83 Professional Organizations & Association Memberships ii Professional Pilot Technology Program 71 Professors Emeriti 280
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61 Pre-Veterinary Medicine Program 62 Private Security Officer Program (C.T.E.) 83 Professional Organizations & Association Memberships ii Professors Emeriti 280 Psychology Program 61
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61 Pre-Physical Therapy Program 62 Private Security Officer Program (C.T.E.) 83 Professional Organizations & Association Memberships ii Professors Emeriti 280 Psychology Program 61 Public Administration Program 62
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61 Pre-Physical Therapy Program 62 Private Security Officer Program (C.T.E.) 83 Professional Organizations & Association Memberships ii Professors Emeriti 280 Psychology Program 61 Public Administration Program 62 Purpose of the Catalog ii
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61 Pre-Physical Therapy Program 62 Private Security Officer Program (C.T.E.) 83 Professional Organizations & Association Memberships ii Professors Emeriti 280 Psychology Program 61 Public Administration Program 62 Purpose of the Catalog iii Radiation Therapy Medical Program (A.S.) 92
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61 Pre-Physical Therapy Program 62 Private Security Officer Program (C.T.E.) 83 Professional Organizations & Association Memberships ii Professional Pilot Technology Program 71 Professors Emeriti 280 Psychology Program 61 Public Administration Program 62 Purpose of the Catalog ii Radiation Therapy Medical Program (A.S.) 92 Radio & Television Broadcasting Programming 71
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61 Pre-Physical Therapy Program 62 Private Security Officer Program (C.T.E.) 83 Professional Organizations & Association Memberships ii Professional Pilot Technology Program 71 Professors Emeriti 280 Psychology Program 61 Public Administration Program 62 Purpose of the Catalog ii Radiation Therapy Medical Program (A.S.) 92 Radio & Television Broadcasting Programming 71 Radiography Medical Program (A.A.S.) 93
Pre-Medical Science/Pre-Dentistry/Pre-Physician's Assistant Program 60 Pre-Medical Technology Program 60 Pre-Nursing Program 60 Pre-Occupational Therapy Program 61 Pre-Optometry Program 61 Pre-Pharmacy Program 61 Pre-Pharmacy Program 61 Pre-Physical Therapy Program 61 Pre-Veterinary Medicine Program 62 Private Security Officer Program (C.T.E.) 83 Professional Organizations & Association Memberships ii Professional Pilot Technology Program 71 Professors Emeriti 280 Psychology Program 61 Public Administration Program 62 Purpose of the Catalog ii Radiation Therapy Medical Program (A.S.) 92 Radio & Television Broadcasting Programming 71 Radiography Medical Program (A.A.S.) 93 Real Estate Broker Program (C.T.E.) 83

Respiratory Care Medical Program (A.S.)
tooms Division Management (C.C.C.)
cholarships & Grants
ign Language Interpretation Program71
ocial Work Program
ociology Program
pecial Academic & Other Programs
Alternative Ways of Earning Credit through
Standardized Examinations
Apprenticeships
Center for Economic Education
Center of Electronics Emphasis & Electronics Specializations . 102
Center of Excellence in High Technology/Electronics 102
Center for Financial Training
Certified Professional Secretary (CPS)
Community Education
Computer Institute
Continuing Education Units (CEUs)
Contract Training for Business/Industry
Cooperative Education
Credits for Specialized Training
Dual Enrollment
Early Admission
Environmental Center
Earth Ethics Institute
Honors College
Independent Studies
Institutional Credit-by-Examination
MEED Program
Military Schools: DANTE & USAFI
New World School of the Arts (NWSA)
Outreach Program
Prometeo Community Theatre
Reserve Officer Training Corps
Servicemembers' Opportunity College
Study Abroad Program
Time-Saving Degree Opportunities
Virtual College
Weekend College
Wellness Center
W.L. Philbrick School of Funeral Service Education
pecial Information
Computer Services
Endowed Teaching Chairs

	. , _	
_	_	
ш	ш	1
1	ш	
ш	Ш	

Institutional Advancement
Resource Development Department
Miami Dade College Foundation, Inc
Miami Dade College Office of Alumni Relations
Special Recognition for Outstanding Academic Performance 51
Graduation with Honors
Phi Beta Kappa
Speech Pathology & Audiology Program
Student Services Table of Contents
Student Support Services
Advisement
Degree Audit
Basic Skills Assessment
Bookstore
Career Services
Class Schedules
College Level Academic Skills Test (CLAST)
Library & Media Services
New Student Center
Pagistration & Pacords 22

Services for Students with Disabilities (ACCESS)
Student Health Services
Table of Contents
Teacher Certification Information
Teaching Program
Teaching/Learning Values
Telecommunications Engineering Technology Program
Television Production Program (C.T.E.)
Teller Operations Program (C.T.E.)
Theatre & Entertainment Technology Program
Transfer Information
Translation & Interpretation Studies Program:
Spanish/English Track or Haitian-Creole/English Track72
Translations Studies Program (C.C.C.):
Spanish/English Track or Haitian-Creole/English Track79
Travel & Tourism Industry Operations Program (C.T.E.)
Travel Industry Management Program
Veterinary Technology Medical Program (A.S.)
Vision Statement
Web Developer Specialist Program (C.C.C.)

