Miami Dade College Office Associate Provost, Academic Affairs

May 18, 2012

<u>MEMORANDUM</u>

TO: Rolando Montoya

FROM: Michael Reiner

SUBJECT: APPROVAL OF CURRICULUM REPORT #90

Attached for your approval is the approved curriculum presented at the May 8, 2012 CASSC meeting.

The information in Curriculum Report #90 includes the following items:

Curriculum Requiring Approval

1. <u>School of Engineering and Technology</u>

- <u>Add New Course:</u> COP2650 – Android Application Development
- <u>Program Changes:</u> Biotechnology – Bioinformatics (Replace end-termed course) Web Development Specialist (Align certificate to parent AS)

2. Fine Arts

<u>Course Deletion:</u>

MUS2334 Basic Multi-Track Tape Recording & Studio Technique

3. School of Education

• Change Existing Courses:

EDG3321 – General Teaching Skills EDG3443 – Classroom and Behavior Management EEX3071 – Teaching Exceptional & Diverse Populations in Inclusive Settings EEX4221 – Assessment in Special Education EME3430 – Instructional Technology in Mathematics and Science MAE4360 – Methods of Teaching Mathematics MAE4940 – Advanced Topics in Mathematics Education Practicum RED3013 – Foundations of Reading Instruction SCE4362 – Methods of Teaching Science SCE4363 – Advanced Topics in Science Education Practicum

Add New Courses:

EEX3102 – Language Development and Communication Disorders EEX4833 – Practicum in Special Education EEX4XXX – Instructional and Assistive Technology in Special Education TSL3XXX – ESOL I: Second Language Acquisition, Communication and Culture TSL4311 – ESOL II: Methods of Teaching ESOL Students

Program Changes:

BS Secondary Science Education – Chemistry BS Secondary Science Education – Earth/Space BS Secondary Science Education – Biology BS Secondary Mathematics Education Exceptional Student Education (K-12) Secondary Science Education – Physics B.S. with a major in Biological Sciences

4. <u>Placement Criteria Document (2012-2013)</u> https://www.mdc.edu/ir/CPT_CLAST/Placement_Document_2012-2013_Draft.pdf

<u> Informational Items –</u>

5. <u>Testing Fees 2012-2013</u>

ACCUPLACER (CPT) and PERT): Eliminate the July 1 start date for assessing are testing fee to High school graduates. Effective with June 7, 2012 graduates: use the 1st day after the M-DCPS Last Day of School to begin charging a re-test fee to high school graduates.

If I can be of further assistance, please do not hesitate to contact me.

Attachment

<u>Miami Dade College</u> <u>College-wide CASSC Meeting – MAY 8, 2012</u> <u>CURRICULUM REPORT #90</u>

1. <u>School of Engineering and Technology</u> Add New Course

				<u>Eff.</u>
Course No.	Course Title	<u>Credits</u>	<u>Campus</u>	<u>Term</u>
COP2650	Android Application Dev	elopment 1 4	1,2,3,5,6,7,8	2012-1

<u>Course Description</u>: This course teaches the principles of Android application development for majors in Computer Science, Computer Information Systems, and related disciplines. Students will learn how to create mobile applications for deployment to Android smartphones, tablets or simulators utilizing open source software (Java, Eclipse IDE, Android Plug-In and Android SDK) for development. Emphasis will be placed on the underlying Android framework to create quality applications. (3 hr. lecture 2 hr. lab). Pre-requisites: COP2800,

Curriculum Action Rationale: The current adoption rate of mobile technology has surpassed that of the PC and so will the demand for mobile application developers. Android is the fastest growing mobile platform on the market. The Android Application Development courses will enhance the current AS program in Computer Programming and Analysis - Business Application (25065) by teaching the student how to create mobile applications utilizing specific mobile technology (re: attached program sheet showing course inclusion as an elective).

Proposed Fee: \$58.00

Rationale/Justification: Fees incurred to cover costs related to course delivery. Estimated expenses for this new course are projected based on the School's documented costs for existing courses.

APPROVE OPPOSE MORE INFORMATION

Program Changes:

Executive Summary – Modifications to Program

Program Title:	Biotechnology-Bioinformatics
Program Code:	22028
Department:	Computer Science
Effective Term :	Summer 2011-3
Degree Type:	Advanced Technical Certificate (ATC)
Affected Campuses:	1, 2, 3, 5, 6, 7, 8

Rationale/Modification:

The discipline reviewed the course offering, and determined that **COP2180 "PERL Programming"** is outdated (no longer appropriate for the program of study), and was previously deleted (2011-1) from the curriculum guide. We are proposing to insert the existing course **COP1334** "*Introduction to C++ Programming*" into the Biotechnology – Bioinformatics (22028) program of study (AS program) to enable students to complete the program.

ASSOCIATE IN SCIENCE DEGREE PROGRAM OF STUDY: BIOTECHNOLOGY-BIOINFORMATICS (22028) EFFECTIVE TERM: <u>Summer 2011 (2011-3)</u>

SHOWING CHANGES

I. GENERAL EDUCATION REQUIREMENTS 1. COMMUNICATIONS (3.00 credits)

ENC 1101 - English Composition 1 (3 credits)	
2. ORAL COMMUNICATIONS (3.00 credits)	
SPC 1017 - Fundamentals of Speech Communication (3 credits)	
3. HUMANITIES (3.00 credits)	
PHI 2604 - Critical Thinking/Ethics (3 credits)	
4. BEHAVIORAL/SOCIAL SCIENCE (3.00 credits)	
CLP 1006 - Psychology of Personal Effectiveness (3 credits)	
5. MATH/SCIENCE (6.00 credits)	
MAC 1105 - College Algebra (3 credits)	BSC 2010 - Principles of Biology 1 (3 credits)
6. COMPUTER COMPETENCY Test type(s) needed: CGS 1060 - Introduction to Microcomputer Usage (4 credits)	
7. MAJOR COURSE REQUIREMENTS (23.00 credits)	
STA 2023 - Statistical Methods (3 credits)	BSC 2426L - Biotechnology Methods and Applications 1 Lab (2 credits)
BSC 2010L - Principles of Biology 1 Lab (2 credits)	BSC 2427 - Biotechnology Methods and Applications 2 (3 credits)
<u>CHM 1045</u> - General Chemistry (3 credits)	BSC 2427L - Biotechnology Methods and Applications 2 Lab (2 credits)
<u>CHM 1045L</u> - General Chemistry Lab (2 credits)	BSC 2943L - Bioscience Internship (3 credits)
BSC 2426 - Biotechnology Methods and Applications 1 (3 credits)	
8. MAJOR COURSE ELECTIVE (20.00 credits)	
CGS 1021 - Scientific Computing (4 credits)	COP 2180 – PERL Programming
CGS 1145 - Introduction to Bioinformatics (4 credits)	COP1334 Introduction to C++ Programming (4 credits)
CIS 1321 - Introduction to Systems Analysis and Design (4 credits)	COP 2700 - Database Application Programming (4 credits)

ASSOCIATE IN SCIENCE DEGREE PROGRAM OF STUDY: BIOTECHNOLOGY-BIOINFORMATICS (22028) EFFECTIVE TERM: Summer 2011 (2011-3)

PROPOSED

I. GENERAL EDUCATION REQUIREMENTS 1. COMMUNICATIONS (3.00 credits)

ENC 1101 - English Composition 1 (3 credits)	
2. ORAL COMMUNICATIONS (3.00 credits)	
SPC 1017 - Fundamentals of Speech Communication (3 credits)	
3. HUMANITIES (3.00 credits)	
PHI 2604 - Critical Thinking/Ethics (3 credits)	
4. BEHAVIORAL/SOCIAL SCIENCE (3.00 credits)	
CLP 1006 - Psychology of Personal Effectiveness (3 credits)	
5. MATH/SCIENCE (6.00 credits)	
MAC 1105 - College Algebra (3 credits)	BSC 2010 - Principles of Biology 1 (3 credits)
6. COMPUTER COMPETENCY Test type(s) needed: CGS 1060 - Introduction to Microcomputer Usage (4 credits)	
7. MAJOR COURSE REQUIREMENTS (23.00 credits)	
STA 2023 - Statistical Methods (3 credits)	BSC 2426L - Biotechnology Methods and Applications 1 Lab (2 credits)
BSC 2010L - Principles of Biology 1 Lab (2 credits)	BSC 2427 - Biotechnology Methods and Applications 2 (3 credits)
<u>CHM 1045</u> - General Chemistry (3 credits)	BSC 2427L - Biotechnology Methods and Applications 2 Lab (2 credits)
<u>CHM 1045L</u> - General Chemistry Lab (2 credits)	BSC 2943L - Bioscience Internship (3 credits)
BSC 2426 - Biotechnology Methods and Applications 1 (3 credits)	
8. MAJOR COURSE ELECTIVE (20.00 credits)	
CGS 1021 - Scientific Computing (4 credits)	COP1334 Introduction to C++ Programming (4 credits)
CGS 1145 - Introduction to Bioinformatics (4 credits)	COP 2700 - Database Application Programming (4 credits)
CIS 1321 - Introduction to Systems Analysis and Design (4 credits)	

Executive Summary – Modifications to Program

Program title:	Web Development Specialist
Program Code:	66051
Effective Term:	Fall 2012-1
Degree Type:	College Credit Certificate (CCC)
Affected Campuses:	1,2,3,5,5,7,8
Rationale:	To modify the COLLEGE CREDIT CERTIFICATE by adding two tracks. All courses exist within the parent AS degree Microsoft (25063) and Open Source (25069) options.
N / 110 / 1	

Modification:

- 1. General Education Requirements (Area 1):
 - Delete from the area: COP2800, COP2812, and CTS 2102.
 - Relocate existing courses to area 2a: COP1332, and COP2823.
 - Relocate existing course to area 2b: COP1334
 - Add: CTS1800 Introduction to Web Page Development (4 credits)
- 2. Add: <u>Two Concentration Options</u> (Area 2):

A. Microsoft Technologies

- COP1332 Introduction to Visual Basic (4 credits)
- COP2823 ASP/Script Language Programming (4 credits) or CTS 2463 C# Web Application Development (4 credits)
- CTS1437 Microsoft SQL Administration (4 credits)
- CTS2433 Microsoft SQL Implementation (4 credits)
- CGS2172 Implementing a Commerce-Enabled Web Site (4 credits)

<mark>OR</mark>

B. Open Source Technologies

- COP1334 Introduction to Object Oriented Programming C++ (4 credits)
- COP2842 Developing Websites Using PHP/MYSQL (4 credits)
- COP2843 Implementing Open-Source Database (4 credits)
- CTS2823 Developing Internet Applications Using Apache (4 credits)
- CTS1111 Linux Systems Administration (4 credits)

APPROVE_____OPPOSE_____MORE INFORMATION_____



CURRENT PROGRAM SHEET

Web Development Specialist College Credit Certificate

C.I.P. (0511080103)

Total credits required for the degree is 36.

	Course	Course Title	Credits
MAJOR	CORE REQUIRE	MENTS – 36 Credits Required	
	CGS 1060	Introduction to Microcomputer Usage	(4 credits)
	COP 1332	Introduction to Visual Basic Programming	(4 credits)
	COP 1334	Introduction to C++ Programming	(4 credits)
	COP 2800	Java Programming	(4 credits)
	COP 2812	Extensible Markup Language Programming (XML)	(4 credits)
	COP 2822	Web Page Design and Programming	(4 credits)
	COP 2823	ASP/Script Language Programming	(4 credits)
	COP 2825	Implementing an Internet Server	(4 credits)
	CTS 2102	Operating System Principles	(4 credits)

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**.

Additional Information:

A minimum cumulative grade point average of 2.0 is required for graduation.

Students should check their individualized Degree Audit Report to determine the specific graduation policies in effect for their program of study for the year and term they entered Miami Dade. This outline includes current graduation requirements.

The final responsibility for meeting graduation requirements rests with the student.



PROPOSED PROGRAM SHEET

(4 credits)

(4 credits)

Web Development Specialist College Credit Certificate

C.I.P. (0511080103)

Total credits required for the degree is <u>36</u>.

Course	Course Title	Credits	
MAJOR CORE REQUI	REMENTS - 36 16 Credits Required		
CGS 1060 COP 1332 COP 1334 COP 2800	Introduction to Microcomputer Usage Introduction to Visual Basic Programming Introduction to C++ Programming	(4 credits) (4 credits) (4 credits) (4 credits)	(Shift to (Shift to (Remove
COP 2800 COP 2822 COP 2823 COP 2823	Sava Programming Extensible Markup Language Programming Web Page Design and Programming ASP/Script Language Programming Implementing an Internet Server	(4 credits) (4 credits) (4 credits) (4 credits) (4 credits)	(Remove (Shift to

(Shift to Option A) (Shift to Option B) (Remove From Program ONLY) (Remove From Program ONLY)

(Shift to Option A)

(ADD Existing Course) (Remove From Program ONLY)

ADD A NEW SECTION "PROGRAM REQUIREMENTS"

Operating System Principles

Course	Course Title	Credits

Introduction to Web Development

<u>PROGRAM REQUIREMENTS - 20 Credits Required</u> *Students Must Select ONE GROUP ONLY. Either Group A Or Group B.

GROUP A: MICROSOFT TECHNOLOGIES

CTS 1800

CTS 2102

CGS 2172	Implementing a Commerce-Enabled Web Site	(4 credits)	(ADD Existing Course)
COP 1332	Introduction to Visual Basic Programming	(4 credits)	(Shifted from MCR)
CTS 1437	Microsoft SQL Administration	(4 credits)	(ADD Existing Course)
CTS 2433	Microsoft SQL Implementation	(4 credits)	(ADD Existing Course)
COP 2823	ASP/Script Language Programming	(4 credits)	(Shifted from MCR)
OR			
CTS 2463	C# Web Application Development	(4 credits)	(ADD Existing Course)



GROUP B: OPEN SOURCE TECHONOLOGIES

Introduction to C++ Programming	(4 credits)	(Shifted from MCR)
Developing Websites Using PHP/MYSQL	(4 credits)	(ADD Existing Course)
Implementing Open-Source Databases	(4 credits)	(ADD Existing Course)
Linux Systems Administration	(4 credits)	(ADD Existing Course)
Developing Internet Applications Using Apache	(4 credits)	(ADD Existing Course)
	Developing Websites Using PHP/MYSQL Implementing Open-Source Databases Linux Systems Administration	Developing Websites Using PHP/MYSQL(4 credits)Implementing Open-Source Databases(4 credits)Linux Systems Administration(4 credits)



NEW PROGRAM SHEET

Web Development Specialist College Credit Certificate

C.I.P. (0511080103)

Total credits required for the degree is 36.

Course	Course Title	Credits		
MAJOR CORE REQUIRE	MENTS - <u>16</u> Credits Required			
CGS 1060 COP 2822 COP 2825 CTS 1800	Introduction to Microcomputer Usage Web Page Design and Programming Implementing an Internet Server Introduction to Web Development	(4 credits) (4 credits) (4 credits) (4 credits)		
PROGRAM REQUIREME				
*Students Must Select	*Students Must Select ONE GROUP ONLY. Either Group A Or Group B.			
GROUP A: MICROSOFT	TECHNOLOGIES – 20 Credits Required			
CGS 2172	Implementing a Commerce-Enabled Web Site	(4 credits)		
COP 1332	Introduction to Visual Basic Programming	(4 credits)		
CTS 1437	Microsoft SQL Administration	(4 credits)		
CTS 2433	Microsoft SQL Implementation	(4 credits)		
COP 2823	ASP/Script Language Programming	(4 credits)		
CTS 2463	C# Web Application Development	(4 credits)		



GROUP B: OPEN SOUL	RCE TECHONOLOGIES – <u>20</u> Credits Required	
COP 1334	Introduction to C++ Programming	(4 credits)
COP 2842	Developing Websites Using PHP/MYSQL	(4 credits)
COP 2843	Implementing Open-Source Databases	(4 credits)
CTS 1111	Linux Systems Administration	(4 credits)
CTS 2823	Developing Internet Applications Using Apache	(4 credits)

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**.

Additional Information:

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The final responsibility for meeting graduation requirements rests with the student.

2. <u>Fine Arts</u> <u>Course Deletion</u>

	-			<u>Eff.</u>
Course No.	<u>Course Title</u>	Credits	Campus	Term
MUS2334	Basic Multi-Track Tape Recording & Studio Technique	3	1,2,3,5,6,7,8	2012-1
Course Descrip	tion: This course provides instruction for co	mposers and	performers using bas	sic recording
studio equipmen	t to produce their own musical recordings. En	nphasis will	be placed on line leve	l monitoring
and recording pr	cocedures in MIDI sequencing production. Pr	re requisites:	MUC 2211 and MU	M 2623C or
permission of in	structor. (2 hr. lecture; 2 hr. lab) (2 hr. lecture	2 hr. lab)		
Cumieulum Ae	tion Dationals. In response to the fee audit t	ha familter h	a convened and requi	acted to and

Curriculum Action Rationale: In response to the fee audit, the faculty has convened and requested to endterm this course. This course has not been offered since its inception date (1991-3). Please note: this course is not a major core requirement to fulfill any active program.

APPROVE	OPPOSE	MORE INFORMATION	
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3. <u>School of Education</u> <u>Change Existing Courses</u>

<u>Course No.</u>	<u>Course Title</u>	<u>Credits</u>	<u>Campus</u>	<u>Term</u>
EDG3321	General Teaching Skills	3	1,2,3,5,6,7,8	2012-1

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Course Description: The student will learn human development theories, learning theories, and research based pedagogy as they apply to the teaching and learning process. The student will apply and incorporate principles and skills of effective teaching through a variety of instructional activities. (3 hr. lecture) Pre-requisites: EDF1005, and EME2040, and EEX2000, EDF2085,

Curriculum Action Rationale: To update course description and course competencies so that they are aligned with the Florida Department of Education. No change requested to existing course fee.

				Eff.
<u>Course No.</u>	<u>Course Title</u>	<u>Credits</u>	<u>Campus</u>	<u>Term</u>
EDG3443	Classroom and Behavior Management	3	1,2,3,5,6,7,8	2012-1

Course Description: The student will learn behavior management and intervention principles to create a learning environment for general and exceptional students that encourages positive interaction and effective communication. The student will learn strategies for observing, assessing, and modifying behavior, communicating with stakeholders, and structuring discipline. Fifteen hours of clinical experience are required (3 hr. lecture) Pre/Co-requisites: EDG3321.

Curriculum Action Rationale: To update course description and course competencies so that they are aligned with the Florida Department of Education. No change requested to existing course fee.

<u>Course No.</u>	<u>Course Title</u>	<u>Credits</u>	<u>Campus</u>	<u>Eff.</u> <u>Term</u>
EEX3071	Teaching Exceptional & Diverse Population	s 3	1,2,3,5,6,7,8	2012-1
	In Inclusive Settings			

Course Description: The student will learn the legal and ethical issues, how to address the needs of diverse learners, and the adaptations, accommodations, and modifications used in inclusive classrooms. The student will learn to make informed decisions in designing and adapting the curriculum for all students. Fifteen hours of clinical experience are required. (3 hr. lecture). Pre-requisites: EEX2000, Pre/Co-requisites: EDG3321.

Curriculum Action Rationale: To update course description and course competencies so that they are aligned with the Florida Department of Education. No change requested to existing course fee.

				<u>Eff.</u>
Course No.	<u>Course Title</u>	Credits	<u>Campus</u>	<u>Term</u>
EEX4221	Assessment in Special Education	3	1,2,3,5,6,7,8	2012-1
Course Descript	ion: The student will study, analyze, and	administer inf	ormal and formal ass	sessments to
students with sp	ecial needs. The student will learn to p	repare and pre	sent assessment data	for use in

instructional planning and developing individualized educational plans for students with disabilities. Fifteen hours of clinical experience are required. (3 hr. lecture). Pre-requisites: EDF4430, EDG3321 **Curriculum Action Rationale**: To update course description and course competencies so that they are

aligned with the Florida Department of Education. No change requested to existing course fee.

Course No.	<u>Course Title</u>	Credits	<u>Campus</u>	Term
EME3430	Instructional Technology in Mathematics	2	1,2,3,5,6,7,8	2012-1
	and Science			

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<u>Course Description</u>: Student will learn to use to use knowledge of mathematics and science content to select appropriate technology tools for diverse populations in the secondary classroom. The student will utilize tools such as spreadsheets, statistical packages, graphing calculators, data-collection devices, probeware, virtual manipulatives, virtual labs, simulations, software, Internet resources, and assistive technologies. (2 hr. lecture) Pre-requisites: EME2040, Pre/Co-requisites: EEX3071, EDG3321.

Curriculum Action Rationale: To update course description and course competencies so that they are aligned with the Florida Department of Education. No change requested to existing course fee.

				<u>Eff.</u>
Course No.	<u>Course Title</u>	<u>Credits</u>	<u>Campus</u>	Term
MAE4360	Methods of Teaching Mathematics	3	1,2,3,5,6,7,8	2012-1

Course Description: The student will learn to develop theoretical knowledge and skills that are essential for successful K-12 mathematics instruction. The student will design, implement, and assess mathematics instruction and curriculum utilizing the problem-solving approach in mathematics and research-based practices that accommodate the learning needs of a diverse population. Fifteen hours of clinical experience are required. Special fee. (3 hr. lecture) Pre-requisites: EDG3321, EDF4430.

Curriculum Action Rationale: To update course description and course competencies so that they are aligned with the Florida Department of Education Skills and Competencies in Science Education (Sixteenth Edition). No change requested to existing course fee

Course No.	<u>Course Title</u>	Credits	<u>Campus</u>	<u>Term</u>
MAE4940	Advanced Topics in Mathematics	3	1,2,3,5,6,7,8	2012-1
	Education Practicum			

<u>Course Description</u>: The student will learn to conduct classroom research. The student will use action research strategies to identify and address issues related to mathematics learning and implement research-based instructional practices that address diverse needs of students' in grades 6-12. Forty hours of clinical experience are required. Prerequisite: MAE 4360. Special fee. (3 hr. lecture). Pre-requisites: MAE4360.

Curriculum Action Rationale: Update course description to meet MDC guidelines and input Learning outcomes. No change to existing course fee.

				<u>Eff.</u>
Course No.	<u>Course Title</u>	Credits	<u>Campus</u>	Term
RED3013	Foundations of Reading Instruction	3	1,2,3,5,6,7,8	2012-1
Course Descri	ption: The student will learn about reading	g instruction fro	om birth to secor	ndary levels. The
student will lea	arn theory and current research-based appr	roaches. All as	spects of the real	ding process are
explored: phon	emic awareness, phonics, vocabulary, fluer	ncy, oral langu	age, and compre	ehension. Fifteen
hours of clinic	al experience are required. Special fee. (3	hr. lecture) (3	3 hr. lecture). F	Pre/Co-requisites:
EDG3321.				

Curriculum Action Rationale: To update course description and course competencies so that they are aligned with the Florida Department of Education. No change requested to existing course fee.

				<u>Eff.</u>
Course No.	<u>Course Title</u>	Credits	<u>Campus</u>	Term
SCE4362	Methods of Teaching Science	3	1,2,3,5,6,7,8	2012-1
Course Descrip	tion: Students will develop theoretic	al knowledge a	and skills that are	essential for
successful K-12	science instruction. The student will	learn to design,	implement, and as	sess science
instruction and a	mui and man weiliging the inconium mathead as	ad uses and base	d mus ations that append	and a data the

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instruction and curriculum utilizing the inquiry method and research-based practices that accommodate the learning needs of a diverse population. Fifteen hours of clinical experience are required. Special fee. (3 hr. lecture). Pre-requisites: EDF4430.

Curriculum Action Rationale: To update course description and course competencies so that they are aligned with the Florida Department of Education Skills and Competencies in Science Education (Sixteenth Edition). No change requested to existing course fee.

Course No.	Course Title	Credits	<u>Campus</u>	<u>Eff.</u> <u>Term</u>
SCE4363	Advanced Topics in Science	3	1,2,3,5,6,7,8	2012-1
	Education Practicum			

Course Description: The student will learn to conduct classroom research. The student will use action research strategies to identify and address issues related to science learning and students' science misconception in grades 6-12. Sixty hours of clinical experience are required. (3 hr. lecture). Pre-requisites: SCE4362, SCE3893.

Curriculum Action Rationale: To update course description and course competencies so that they are aligned with the Florida Department of Education Skills and Competencies in Science Education (Sixteenth Edition). This course does not have a fee.

APPROVE_____OPPOSE_____MORE INFORMATION_____

Add New Courses

Course No.	<u>Course Title</u>	Credits	<u>Campus</u>	Term
EEX3102	Language Development and Communication	n 3	1,2,3,5,6,7,8	2012-1
	Disorders			

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<u>Course Description</u>: The student will learn normal language and speech development and characteristics and manifestations of major communication disorders. The student will identify and plan supportive strategies and accommodations for students with speech and language disorders. (3 hr. lecture). Pre-requisites: EDG3321, Pre/Co-requisites: TSL3XXX

Curriculum Action Rationale: PLEASE NOTE: THIS IS A NEW COURSE REQUEST. EFFECTIVE 2012-1. Course is aligned with the Florida Department of Education Skills and Competencies.

Course No.	Course Title	Credits	Campus	<u>Eff.</u> Term
EEX4833	Practicum in Special Education	3	1,2,3,5,6,7,8	2012-1
2011 1035		5	1,2,3,3,0,7,0	2012 1

<u>Course Description</u>: The student will plan, develop, and implement literacy strategies and pedagogic methods that meet the needs of students with diverse learning styles in grades K-12. The student will learn to utilize action research methodology, assessment principles, and remediation strategies to determine the effectiveness of a literacy strategy. Sixty hours of clinical experience are required. (3 hr. lecture). Pre/Co-requisites: RED4519.

Curriculum Action Rationale: State Revisions in Mandated Competencies. PLEASE NOTE: THIS IS A NEW COURSE REQUEST. EFFECTIVE 2012-1.

				<u>Eff.</u>
Course No.	Course Title	Credits	<u>Campus</u>	Term
EEX4XXXX	Instructional and Assistive Technology	3	1,2,3,5,6,7,8	2012-1
	in Special Education			

Course Description: The student will acquire a basic foundation of the use of technology in special education. The student will learn about the educational and assistive technologies (AT) used to support low and high incidence special education students and select the best technology applications for the classroom. (3 hr. lecture) Pre-requisites: EDG3321, EME2040, Pre/Co-requisites: EEX3071.

Curriculum Action Rationale: PLEASE NOTE: THIS IS A NEW COURSE REQUEST. EFFECTIVE 2012-1. Course is aligned with the Florida Department of Education Skills and Competencies.

<u>Course No.</u>	<u>Course Title</u>	<u>Credits</u>	<u>Campus</u>	<u>En.</u> Term
TSL3XXXX	ESOL I: Second Language Acquisition,	3	1,2,3,5,6,7,8	2012-1
	Communication and Culture			

Course Description: The student will learn to analyze and apply linguistic theories for first and second language acquisition and literacy development, and study language and its structure. The student will plan and implement curriculum, instruction, and assessment activities to meet the needs of culturally and linguistically diverse learners. Fifteen hours of clinical experience are required. (3 hr. lecture) Pre/Co-requisites: EDG3321.

Curriculum Action Rationale: State Mandated Changes. PLEASE NOTE: THIS IS A NEW COURSE REQUEST. EFFECTIVE 2012-1.

Eff. Course No. **Course Title** Credits **Campus** Term TSL4311 ESOL II: Methods of Teaching ESOL Students 3 1,2,3,5,6,7,8 2012-1 Course Description: The student will learn to apply TESOL instructional methods and strategies, as well as, analyze, plan, design, and evaluate curriculum and materials. The student will learn to select, develop, and adapt assessment instruments, and examine standardized ESOL measurement tools. Fifteen hours of clinical experience are required. (3hr. lecture) (3 hr. lecture) Pre-requisites: TSL3XXX. Curriculum Action Rationale: State Mandated Changes. PLEASE NOTE: THIS IS A NEW COURSE REQUEST. EFFECTIVE 2012-1.

APPROVE _____ OPPOSE _____ MORE INFORMATION _____

Program Changes

Executive Summary – Modifications to Program

Program Title:	BS Secondary Science Education - Chemistry
Program Code:	S4101
Department:	Education
Effective Term:	Fall 2012-1
Degree Type:	Bachelor of Science
Affected Campuses:	1, 2, 3, 5, 6, 7, 8
Rationale:	Modify program to:
	 meet science pre-service teacher needs in teaching reading to secondary students; and
	• address the new Florida Educator Accomplished Practice standards required by the FLDOE for teacher preparation.
Modification:	
3. Professional Educat	tion Core:
• Delete: RED 301	3 – Foundations of Reading Instruction (3 credits)
• Add: RED 3393	– Differentiated Instruction in Content Reading (3 credits)
4. BS Courses :	
• Move: EME 343	0(2 credits) to Upper Division Science Education Discipline Content Area
APPROVE	OPPOSE MORE INFORMATION

MIAMI DADE COLLEGE SCHOOL OF EDUCATION

Bachelor of Science Degree Secondary Science Education – Chemistry Total credits required for the degree is 120

Upon completion of the Bachelor of Science Degree in Secondary Science Education in Chemistry program, the student will be eligible to obtain a Florida Educator Certification in Chemistry (grade 6-12).

CENEDAL EDUC	A TION DEOLIDEMENTS			
GENERAL EDUC Course	ATION REQUIREMENTS Course Title	Credits	Pre-/Co-F	Requisites
Communications -	6 credits			
ENC 1101	English Comp 1	3		
ENC 1102	English Comp 2	3	Pre-req	ENC 1101 or equivalent with a grade of "C" or better
Oral Communicat	ions – 3 credits			
Select three (3) cred	lits from the following oral communications courses:			
LIT 24801	Issues in Lit & Culture	3		
SPC 1026	Fund of Speech Communication	3		
ENC 2106	Advanced Communication Skills	3		
¹ Note: Lit 2480 me	ets 3 of 9 required credits of international / diversity	focus		
Humanities – 6 cre	dits			
	three (3) credits from Group A and three (3) credits fr	om Group B:		
Group A	(,),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
ARH 1000	Art Appreciation	3		
DAN 2100	Dance Appreciation	3		
HUM 1020	Humanities	3		
MUL 1010	Music Appreciation	3		
PHI 2604	Critical Thinking and Ethics	3	Pre-req	ENC 1101
Group B			1	
ARH 2740	Cinema Appreciation	3	Pre-req	HUM1020
LIT 2120	A Survey of World Literature	3	Pre-req	ENC 1101, ENC 1102, or equivalent
MUL 2380	Jazz & Pop Music in America	3	1	, , , ,
PHI 2010	Introduction to Philosophy	3		
THE 2000	Theatre Appreciation	3		
	Sciences – 6 credits	~ ~		
	three (3) credits from Group A and three (3) credits fr			
	000 level course from one group, they must select a 2	2000 level cou	rse from the	e other group.
Group A (3 credits)				
ANT 2410	Introduction to Cultural Anthropology	3		
DEP 2000 *	Human Growth and Development	3	* recomm	ended by SOE faculty
ISS 1161	The Individual in Society	3		
CLP1006	Psychology of Personal Effectiveness	3		
PSY 2012	Introduction to Psychology	3		
SYG 2000	Introduction to Sociology	3		
Group B (3 credits)				
AMH 2010	History of the U.S. to 1877	3		
AMH 2020	History of the U.S. since 1877	3		
ECO 2013	Principles of Economics	3		
ISS 1120	The Social Environment	3		
POS 2041	American Federal Government	3		
WOH 2012	History of World Civilizations to 1715	3		
WOH 2022	History of World Civilization from 1715	3		
Natural Calance	(
Natural Science – (2	Pre/Co-req	PSC 2010L CHM 1045
BSC 2010	Principles of Biology	3 3		BSC 2010L, CHM 1045 CHM 1025, or High school chemistry with a grade of "C" or
CHM 1045	General Chemistry	3	Pre-req better Co-re	eq CHM 1025, of Figh school chemistry with a grade of C of
				· · · · · ·
Mathematics – 6 cr	redits			
Any 6 credits exclue	ding labs:			
MÁC MAD	MAP MAS MGF MTG 2204	QMB 21	00	STA 2023
	Elective - 3 credits			
EDF 1005*	Introduction to Education	3		
Education Commo	n Prerequisites – 9 credits			
12/04/07				

EDG 2701*2	Diverse Populations	3						
EEX 2000 *2	Introduction to Special Education	3						
EME 2040	Introduction to Educational Technology	3	Pre-req	EDF 1005				
² Note: EDG 2701 a	nd EEX 2000 meet 6 of 9 required credits of internation	onal/diversity	focus					
* Course requires a	minimum of 15 hours of field experience							
Program Prerequi			D (C					
BSC 2010L	Principles of Biology Lab	2	Pre-/Co-req	CHM1045L/BSC 2010				
BSC 2011	Principles of Biology 2	3	Pre-/Co-req	BSC2010/BSC 2011L				
BSC 2011L	Principles of Biology 2 Lab	2	Co-req	BSC 2011				
CHM 1045L	General Chemistry Lab	2	Co-req	CHM 1045				
CHM 1046	General Chemistry and Qualitative Analysis	3	Pre-/Co-req	CHM 1045/CHM1046L				
CHM 1046L	General Chemistry and Qualitative Analysis Lab	2	Pre-/Co- req	CHM 1045L/CHM 1046				
Professional Educ	ation Core - 18 credits							
EDG 3321*	General Teaching Skills	3	Pre-req	EDF 1005, EDG 2701, EEX 2000, EME 2040				
EDF 4430	Measurement & Assessment in Education	3	Pre-/Co-req	EDG 3321				
EDG 3411	Classroom Management for Comm. K-12	3	Pre-/Co-req	EDF 3111				
EEX 3071*	Teaching Exceptional and Diverse Populations in	3	Pre-req	EEX 2000				
	Inclusive Settings		•					
RED 3013*	Foundations of Reading Instruction	3	Pre-req	EDG 3321 (Remove from Program Only)				
RED 3393*	Differentiated Instruction in Content Reading	3	Pre-req	departmental approval				
TSL 4324C*	ESOL Strategies for Content Area Teachers	3	Pre-req	EDG 3321				
*Course requires a	minimum of 15 hours of field experience							
Discipline Content	t 20 gradits							
BCH 3023	Introduction to Biochemistry	3	Pre-/Co-req	CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L				
BCH 3023L	Introduction to Biochemistry Lab	1	Pre-/Co-req	CHM2200L or CHM 2210L and CHM2211L/BCH 3023;				
CHM 2200	Survey of Organic Chemistry	3	-	CHM 1046/CHM 2200L				
CHM 2200L		5						
	Survey of Organic Chemistry Lab	2	-					
CHM 3120	Survey of Organic Chemistry Lab	2	Pre-/Co-req	CHM 1046L,/CHM 2200				
CHM 3120 CHM 3120L	Introduction to Analytical Chemistry	3	Pre-/Co-req Pre-/Co- req	CHM 1046L,/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L				
CHM 3120L	Introduction to Analytical Chemistry Introduction to Analytical Chemistry Lab	3 2	Pre-/Co-req Pre-/Co- req Pre-/Co- req	CHM 1046L/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L CHM 1046L, CHM 3120				
CHM 3120L CHM 3610	Introduction to Analytical Chemistry Introduction to Analytical Chemistry Lab Advanced Inorganic Chemistry	3 2 3	Pre-/Co-req Pre-/Co- req Pre-/Co- req Pre- req	CHM 1046L/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L CHM 1046L, CHM 3120 CHM 1046L				
CHM 3120L CHM 3610 EME 3430	Introduction to Analytical Chemistry Introduction to Analytical Chemistry Lab Advanced Inorganic Chemistry Instructional Technology in Math and Science	3 2 3 2	Pre-/Co-req Pre-/Co- req Pre- req Pre- req Pre-req	CHM 1046L/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L CHM 1046L, CHM 3120				
CHM 3120L CHM 3610 EME 3430 ISC 4534C	Introduction to Analytical Chemistry Introduction to Analytical Chemistry Lab Advanced Inorganic Chemistry Instructional Technology in Math and Science Authentic Inquiry in Science	3 2 3 2 3	Pre-/Co-req Pre-/Co- req Pre-/Co- req Pre- req	CHM 1046L/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L CHM 1046L, CHM 3120 CHM 1046 departmental approval (Moved from Program Prerequisite)				
CHM 3120L CHM 3610 EME 3430 ISC 4534C SCE 3893	Introduction to Analytical Chemistry Introduction to Analytical Chemistry Lab Advanced Inorganic Chemistry Instructional Technology in Math and Science Authentic Inquiry in Science Teaching and Learning the Nature of Science	3 2 3 2 3 3 3	Pre-/Co-req Pre-/Co- req Pre-/Co- req Pre-req Pre-req Pre-req Pre-req	CHM 1046L,/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L CHM 1046L, CHM 3120 CHM 1046 departmental approval (Moved from Program Prerequisite) CHM 1046 departmental approval				
CHM 3120L CHM 3610 EME 3430 ISC 4534C SCE 3893 SCE 4362*	Introduction to Analytical Chemistry Introduction to Analytical Chemistry Lab Advanced Inorganic Chemistry Instructional Technology in Math and Science Authentic Inquiry in Science Teaching and Learning the Nature of Science Methods of Teaching Science 1	3 2 3 2 3	Pre-/Co-req Pre-/Co- req Pre-/Co- req Pre- req Pre-req Pre-req	CHM 1046L,/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L CHM 1046L, CHM 3120 CHM 1046 departmental approval (Moved from Program Prerequisite) CHM 1046				
CHM 3120L CHM 3610 EME 3430 ISC 4534C SCE 3893 SCE 4362* SCE 4363**	Introduction to Analytical Chemistry Introduction to Analytical Chemistry Lab Advanced Inorganic Chemistry Instructional Technology in Math and Science Authentic Inquiry in Science Teaching and Learning the Nature of Science Methods of Teaching Science 1 Advanced Topics in Science Education Practicum	3 2 3 2 3 3 3 3	Pre-/Co-req Pre-/Co- req Pre-/Co- req Pre-req Pre-req Pre-req Pre-req Pre-req	CHM 1046L,/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L CHM 1046L, CHM 3120 CHM 1046 departmental approval (Moved from Program Prerequisite) CHM 1046 departmental approval departmental approval				
CHM 3120L CHM 3610 EME 3430 ISC 4534C SCE 3893 SCE 4362* SCE 4363** *Course requires a	Introduction to Analytical Chemistry Introduction to Analytical Chemistry Lab Advanced Inorganic Chemistry Instructional Technology in Math and Science Authentic Inquiry in Science Teaching and Learning the Nature of Science Methods of Teaching Science 1	3 2 3 2 3 3 3 3	Pre-/Co-req Pre-/Co- req Pre-/Co- req Pre-req Pre-req Pre-req Pre-req Pre-req	CHM 1046L,/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L CHM 1046L, CHM 3120 CHM 1046 departmental approval (Moved from Program Prerequisite) CHM 1046 departmental approval departmental approval				
CHM 3120L CHM 3610 EME 3430 ISC 4534C SCE 3893 SCE 4362* SCE 4363** *Course requires a **Course requires a	Introduction to Analytical Chemistry Introduction to Analytical Chemistry Lab Advanced Inorganic Chemistry Instructional Technology in Math and Science Authentic Inquiry in Science Teaching and Learning the Nature of Science Methods of Teaching Science 1 Advanced Topics in Science Education Practicum minimum of 15 hours of field experience a minimum of 40 hours of field experience	3 2 3 2 3 3 3 3	Pre-/Co-req Pre-/Co- req Pre-/Co- req Pre-req Pre-req Pre-req Pre-req Pre-req	CHM 1046L,/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L CHM 1046L, CHM 3120 CHM 1046 departmental approval (Moved from Program Prerequisite) CHM 1046 departmental approval departmental approval				
CHM 3120L CHM 3610 EME 3430 ISC 4534C SCE 3893 SCE 4362* SCE 4363** *Course requires a **Course requires a	Introduction to Analytical Chemistry Introduction to Analytical Chemistry Lab Advanced Inorganic Chemistry Instructional Technology in Math and Science Authentic Inquiry in Science Teaching and Learning the Nature of Science Methods of Teaching Science 1 Advanced Topics in Science Education Practicum minimum of 15 hours of field experience a minimum of 40 hours of field experience Internship – 12 credits	3 2 3 2 3 3 3 3 3 3	Pre-/Co-req Pre-/Co- req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	CHM 1046L/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L CHM 1046L, CHM 3120 CHM 1046 departmental approval (Moved from Program Prerequisite) CHM 1046 departmental approval departmental approval SCE 4362				
CHM 3120L CHM 3610 EME 3430 ISC 4534C SCE 3893 SCE 4362* SCE 4363** *Course requires a **Course requires a Student Teaching/ SCE 4945***	Introduction to Analytical Chemistry Introduction to Analytical Chemistry Lab Advanced Inorganic Chemistry Instructional Technology in Math and Science Authentic Inquiry in Science Teaching and Learning the Nature of Science Methods of Teaching Science 1 Advanced Topics in Science Education Practicum minimum of 15 hours of field experience a minimum of 40 hours of field experience (Internship – 12 credits Student Teaching/Student Internship-Science	3 2 3 2 3 3 3 3 3 9	Pre-/Co-req Pre-/Co- req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	CHM 1046L/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L CHM 1046L, CHM 3120 CHM 1046 departmental approval (Moved from Program Prerequisite) CHM 1046 departmental approval departmental approval SCE 4362 SCE4943 and departmental approval				
CHM 3120L CHM 3610 EME 3430 ISC 4534C SCE 3893 SCE 4362* SCE 4363** *Course requires a **Course requires a Student Teaching/ SCE 4945*** SCE 4943***	Introduction to Analytical Chemistry Introduction to Analytical Chemistry Lab Advanced Inorganic Chemistry Instructional Technology in Math and Science Authentic Inquiry in Science Teaching and Learning the Nature of Science Methods of Teaching Science 1 Advanced Topics in Science Education Practicum minimum of 15 hours of field experience a minimum of 40 hours of field experience Internship – 12 credits	3 2 3 2 3 3 3 3 3 3	Pre-/Co-req Pre-/Co- req Pre- req Pre- req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	CHM 1046L/CHM 2200 CHM 1046, CHM 3120 L, CHM 1046 L CHM 1046L, CHM 3120 CHM 1046 departmental approval (Moved from Program Prerequisite) CHM 1046 departmental approval departmental approval SCE 4362				

Computer Competency: Upon completion of 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.

Courses taken to fulfill the general education requirements must be completed with a grade of "C" or better.

To be admitted to the baccalaureate degree in Education a student must have completed an A.A. degree **or** at least earned 60 semester credit hours from an accredited college or university with a minimum cumulative 2.5 Grade Point Average (GPA) on a 4.0 scale and present passing scores on all sections of the CLAST **or** the General Knowledge Test (GKT) without exceptions or waivers.

Fingerprint Requirement: Most courses in the teacher education program require school site-based field experiences, culminating in a full-time 12-week internship. School districts require a criminal background check for students completing service hours, field placement, practicum, or internships. Fingerprinting and FBI background check procedures are at the applicant's expense. Students with felony arrests may wish to consider these requirements carefully and, if necessary, seek advice from an advisor in the School of Education before applying to programs in the School of Education. Students without valid Social Security number will not be eligible for placement in the school district. The Director of Clinical Supervision and Internship Placement will assi students through these requirements.

A minimum of 30 semester hours of 3000-4000 level courses must be taken. Courses must be completed with a grade of "C" or better.

Foreign Language: Students admitted to the baccalaureate degree in Education without meeting the foreign language admission requirement of at least 2 courses of sequential foreign language at the secondary level or the equivalent of such instruction at the postsecondary level must earn such credits prior to graduation. Foreign language courses taken at the college level may be used to meet the diversity requirement.

Executive Summary – Modifications to Program

Program Title: Program Code: Department: Effective Term: Degree Type: Affected Campuses:	BS Secondary Sci S4102 Education Fall 2012-1 Bachelor of Scien 1, 2, 3, 5, 6, 7, 8	ence Education – Earth/Space Science ce
Rationale: Modification:	students; andaddress the ne	o: ore-service teacher needs in teaching reading to secondary w Florida Educator Accomplished Practice standards e FLDOE for teacher preparation.
1. Professional Educat	ion Core	
 Delete: RED 301 Add: RED 3393 - 2. BS Courses : 	3 – Foundations of – Differentiated Ins	Reading Instruction (3 credits) ruction in Content Reading (3 credits) er Division Science Education Discipline Content Area
APPROVE	OPPOSE	MORE INFORMATION



Bachelor of Science Degree Secondary Science Education – Earth/ Space Science Total credits required for the degree is 120

Upon completion of the Bachelor of Science Degree in Secondary Science Education in Earth/ Space Science program, the student will be eligible to obtain a Florida Educator Certification in Earth/ Space Science (grade 6-12).

Course	Course Title	Credits	Pre-/Co	-Requisites		
Communicatio	ns – 6 credits					
ENC 1101	English Comp 1	3				
ENC 1102	English Comp 2	3	Pre-req	ENC 1101 or equivalent with a grade of "C" or better		
Oral Commun	ications – 3 credits					
Select three (3)	credits from the following oral communications co	urses:				
LIT 24801	Issues in Lit & Culture	3				
SPC 1026	Fund of Speech Communication	3				
ENC 2106	Advanced Communication Skills	3				
¹ Note: Lit 248	0 meets 3 of 9 required credits of international / div	ersity focus				
Humanities – (6 credits					
Students must t	ake three (3) credits from Group A and three (3) cre	edits from Group B	:			
Group A						
ARH 1000	Art Appreciation	3				
DAN 2100	Dance Appreciation	3				
HUM 1020	Humanities	3				
MUL 1010	Music Appreciation	3				
PHI 2604	Critical Thinking and Ethics	3	Pre-req	ENC 1101		
Group B						
ARH 2740	Cinema Appreciation	3	Pre-req	HUM1020		
LIT 2120	A Survey of World Literature	3	Pre-req	ENC 1101, ENC 1102, or equivalent		
MUL 2380	Jazz & Pop Music in America	3				
PHI 2010	Introduction to Philosophy	3				
THE 2000	Theatre Appreciation	3				
Behavioral/ So	cial Sciences – 6 credits					
	ake three (3) credits from Group A and three (3) cre ts a 1000 level course from one group, a 2000 level			the other group		
Group A (3 cre		course musi de se	iecieu jrom	me omer group.		
ANT 2410	Introduction to Cultural Anthropology	3				
DEP 2000 *	Human Growth and Development	3	* recom	mended by SOE faculty		
DEI 2000	framan orowin and Development	5	recommended by SOE faculty			

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12/4/07	
12/4/07	

ISS 1161

CLP 1006

PSY 2012

SYG 2000

AMH 2020 ECO 2013

ISS 1120

POS 2041

WOH 2012

WOH 2022

Group B (3 credits) AMH 2010

The Individual in Society

Introduction to Psychology

History of the U.S. to 1877

History of the U.S. since 1877

American Federal Government

History of World Civilizations to 1715

History of World Civilization from 1715

Introduction to Sociology

Principles of Economics

The Social Environment

Psychology of Personal Effectiveness

Natural Science – 6 credits

BSC 1003 CHM 104		Education B Chemistry	iology		3 3	Pre-/Coreq	CHM 1025 or High School Chemistry with a grade of "C" or better./CHM1045L
	atics – 6 cr edits exclue MAD	MAS	MGF	MTG 2204	C	QMB 2100	STA 2023

General Education Elective - 3 credits

EDF 1005*	Introduction to Education	3					
Education Common Prerequisites – 9 credits							
EDG 2701* ²	Diverse Populations	3					
EEX 2000 *2	Introduction to Special Education	3					
EME 2040	Introduction to Educational Technology	3	Pre-req	EDF 1005			
² Note: EDG 2701 and EEX 2000 meet 6 of 9 required credits of international/diversity focus * Course requires a minimum of 15 hours of field experience							

Duoguom Duouog	visitas 17 15 ovodita			
CHM 1045L	uisites – <mark>17 15 credits</mark> General Chemistry Lab	2	Pre/Co-req CHM 1025 or High School Chemis better./CHM1045	try with a grade of "C"or
CHM 1046	General Chemistry and Qualitative Analysis	3	Pre/Co-req MAC 1105/CHM1046L	
CHM 1046L	General Chemistry and Qualitative Analysis Lab	2	Pre/Co- req CHM 1045, 1045L, MAC1105/ CH	IM 1046
GLY 1010	Physical Geology	3	GLY 1010L	
GLY 1010L	Physical Geology Lab	1	Co-req GLY 1010	
GLY 1100	Historical Geology	3	Co-req GLY 1100L	
GLY 1100L	Historical Geology Lab	1	Co-req GLY 1100	
Professional Edu	acation Core - 18 credits			
EDG 3321*	General Teaching Skills	3	Pre-req EDF 1005, EDG 2701, EEX 2000, E	ME 2040
EDF 4430	Measurement & Assessment in Education	3	Pre-/Co-req EDG 3321	
EDG 3411	Classroom Management for Comm. K-112	3	Pre-/Co-req EDG 3321	
EEX 3071*	Teaching Exceptional and Diverse Populations in Inclusive Settings	3	Pre-req EEX 2000	
RED 3013*	Foundations of Reading Instruction	3	Pre-req EDG3321 (Remove from Program C	Only)
RED 3393*	Differentiated Instruction in Content Reading	3	Pre-req EDG3321	
TSL 4324C*	ESOL Strategies for Content Area Teachers	3	Pre-req EDG3321	
*Course magnings	a minimum of 15 hours of field armanian as			

*Course requires a minimum of 15 hours of field experience

Discipline Conter	ıt – <mark>28 30 credits</mark>			
EME 3430	Instructional Technology in Math and Science	2	Pre-req	departmental approval (Moved from Program Prequisite)
GLY 4700C	Geomorphology	4	Pre-req	GLY 1010, GLY 1100
ISC 4534C	Authentic Inquiry in Science	3	Pre-req	CHM1046
MET 3702	General Meteorology	3	Co-req	MET 3702L
MET 3702L	General Meteorology Lab	1	Co-req	MET 3702
OCE 3014	Oceanography	3	Co-req	OCE 3014L
OCE 3014L	Oceanography Lab	2	Co- req	OCE 3014
PHY 1025	Basic Physics	3		
SCE 3893	Teaching and Learning the Nature of Science	3	Pre-req	departmental approval
SCE 4362*	Methods of Teaching Science	3	Pre-req	departmental approval
SCE 4363**	Advanced Topics in Science Education Practicum	3	Pre-req	SCE 4362
*Course requires a	minimum of 15 hours of field experience			
**Course requires	a minimum of 40 hours of field experience			
Student Teaching	/Internship – 12 credits			
SCE 4945***	Student Teaching/Student Internship-Science	9	Co-req	SCE 4943 and departmental approval
SCE 4943***	Seminar	3	Co-req	SCE 4945 and departmental approval

*** Course requires full-time field experience

Computer Competency: Upon completion of 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.

Courses taken to fulfill the general education requirements must be completed with a grade of "C" or better.

To be admitted to the Baccalaureate Degree in Education a student must have completed an A.A. degree **or** at least earned 60 semester credit hours from an accredited college or university with a minimum cumulative 2.5 Grade Point Average (GPA) on a 4.0 scale and present passing scores on all sections of the CLAST **or** the General Knowledge Test (GKT) without exceptions or waivers.

Fingerprint Requirement: Most courses in the teacher education program require school site-based field experiences, culminating in a full-time 12-week internship. School districts require a criminal background check for students completing service hours, field placement, practicum, or internships. Fingerprinting and FBI background check procedures are at the applicant's expense. Students with felony arrests may wish to consider these requirements carefully and, if necessary, seek advice

from an advisor in the School of Education before applying to programs in the School of Education. Students without a valid Social Security number will not be eligible for placement in the school district. The Director of Clinical Supervision and Internship Placement will assist students through these requirements.

A minimum of 30 semester hours of 3000-4000 level courses must be taken. Courses must be completed with a grade of "C" or better.

Foreign Language: Students admitted to the baccalaureate degree in Education without meeting the foreign language admission requirement of at least 2 courses of sequential foreign language at the secondary level or the equivalent of such instruction at the postsecondary level must earn such credits prior to graduation. Foreign language courses taken at the college level may be used to meet the diversity requirement.

Executive Summary – Modifications to Existing Program

Program Title: Program Code: Department: Effective Term: Degree Type: Affected Campuses:	BS Secondary Science Education – Biology S4100 Education Fall 2012-1 Bachelor of Science 1, 2, 3, 5, 6, 7, 8
Rationale: Modification:	 Modify program to: meet science pre-service teacher needs in teaching reading to secondary students; and address the new Florida Educator Accomplished Practice standards required by the FLDOE for teacher preparation.
	<i>ion Core</i> : 3 – Foundations of Reading Instruction (3 credits) – Differentiated Instruction in Content Reading (3 credits)

• Move: EME 3430(2credits) to Upper Division Science Education Discipline Content Area

APPROVEOPPOSEI	MORE INFORMATION
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MIAMI DADE COLLEGE SCHOOL OF EDUCATION

Bachelor of Science Degree Secondary Science Education – Biology Total credits required for the degree is 120

Upon completion of the Bachelor of Science Degree in Secondary Science Education in Biology program, the student will be eligible to obtain a Florida Educator Certification in Biology (grade 6-12).

GENERAL EDUCATION REQUIREMENTS									
Course	Course Title	Credits	Pre-/Co	-Requisites					
Communication	s – 6 credits								
ENC 1101	English Comp 1	3							
ENC 1102	English Comp 2	3	Pre-req	ENC 1101 or equivalent with a grade of "C" or better					
Oral Communications – 3 credits									
Select three (3) cr	edits from the following oral communications courses:								
LIT 24801	Issues in Lit & Culture	3							
SPC 1026	Fund of Speech Communication	3							
ENC 2106	Advanced Communication Skills	3							
¹ Note: Lit 2480 r	neets 3 of 9 required credits of international / diversity	focus							
Humanities – 6 d	rodite								
	ke three (3) credits from Group A and three (3) credit.	s from Groun	R.						
Group A		sjrom droup	Б.						
ARH 1000	Art Appreciation	3							
DAN 2100	Dance Appreciation	3							
HUM 1020	Humanities	3							
MUL 1010	Music Appreciation	3							
PHI 2604	Critical Thinking and Ethics	3	Pre-req	ENC 1101					
Group B									
ARH 2740	Cinema Appreciation	3	Pre-req	HUM1020					
LIT 2120	A Survey of World Literature	3	Pre-req	ENC 1101, ENC 1102, or equivalent					
MUL 2380	Jazz & Pop Music in America	3							
PHI 2010	Introduction to Philosophy	3							
THE 2000	Theatre Appreciation	3							
Pohewiowal / Soc	ial Sciences – 6 credits								
	ke three (3) credits from Group A and three (3) credit.	s from Groun	R.						
	urse is selected from one group, a 2000 level course m			other aroun					
Group A (3 credit	, , , , , , , , , , , , , , , , , , , ,		La ji oni tile	oner group.					
ANT 2410	Introduction to Cultural Anthropology	3							
DEP 2000 *	Human Growth and Development	3	* recom	mended by SOE faculty					
221 2000		-	recom	included by bold facally					

DEP 2000 *	Human Growth and Development	3	* recommended by SOE faculty
ISS 1161	The Individual in Society	3	
CLP 1006	Psychology of Personal Effectiveness	3	
PSY 2012	Introduction to Psychology	3	
SYG 2000	Introduction to Sociology	3	
Group B (3 o	credits)		
AMH 2010	History of the U.S. to 1877	3	
AMH 2020	History of the U.S. since 1877	3	
ECO 2013	Principles of Economics	3	
ISS 1120	The Social Environment	3	
POS 2041	American Federal Government	3	
WOH 2012	History of World Civilizations to 1715	3	
WOH 2022	History of World Civilization from 1715	3	

Natural Science – 6 credits

*recommended by SOE and Natural Science faculty								
BSC 2010	Principles of Biology*	3	Pre/Co-req	BSC 2010L, CHM 1045				
CHM 1045	General Chemistry*	3	Pre-/Co-req or better; CHN	CHM 1025 or high school chemistry with a grade of "C" 1 1045L, MAC 1105				
Mathamatics	6 aradits							

Mathematics – 6 credits

Any 6 cro	edits exclu	ding labs:						
MAC	MAD	MAP	MAS	MGF	MTG 2204	QMB 2100	STA 2023	
Students	are encour	aged to tak	e the appro	priate pre-re	equisites to meet l	Natural Science requireme	ents	

General Education Elective - 3 credits

General	ducation Elective - 3 credits			
EDF 1005*	Introduction to Education	3		
Education Comm	non Prerequisites – 9 credits			
EDG 2701* ²	Diverse Populations	3		
EEX 2000 * ²	Introduction to Special Education	3		
EME 2000	Introduction to Educational Technology	3	Pre-req	CGS 1060 or computer competency
	25		•	COS 1000 of computer competency
	and EEX 2000 meet 6 of 9 required credits of internati	ional/diversit	y locus	
* Course requires	a minimum of 15 hours of field experience			
Program Prerequ	uisites – <mark>1614 credits</mark>			
BSC 2010L	Principles of Biology Lab	2	Pre-/Co-req	CHM1045L/BSC 2010
BSC 2011	Principles of Biology 2	3	Pre-/Co-req	BSC2010/BSC 2011L
BSC 2011L	Principles of Biology 2 Lab	2	Co-req	BSC 2011
CHM 1045L	General Chemistry Lab	2	Co-req	CHM 1045
CHM 1046	General Chemistry and Qualitative Analysis	3	Pre-/Co-req	CHM 1045/CHM1046L
CHM 1046L	General Chemistry and Qualitative Analysis Lab	2	•	CHM 1045L/CHM 1046
CIIIVI 1040L	General Chemistry and Quantative Analysis Lab	2	110-/ CO- 10q	
Professional Edu	<i>ication Core</i> - 18 credits			
EDG 3321*	General Teaching Skills	3	Pre-req	EDF 1005, EDG 2701, EEX 2000, EME 2040
EDF 4430	Measurement & Assessment in Education	3	Pre-/Co-req	EDG 3321
EDG 3443	Classroom Management for Regular and	3	Pre-req	EDG3321
	Exceptional Students		•	
EEX 3071*	Teaching Exceptional and Diverse Populations in	3	Pre-req	EDF2085 and EEX 2000
	Inclusive Settings		1	
DED 2012*	Foundations of Reading Instruction	2	D	EDG 3321 (Remove From Program Only)
RED 3013*	Foundations of Reading instruction	3	Pre-req	LDG 5521 (Remove From Frogram Only)
RED 3393*	Differentiated Instruction in Content Reading	3	Pre-req Pre-req	departmental approval
RED 3393*			· · · · ·	
RED 3393* TSL 4324C*	Differentiated Instruction in Content Reading	3	Pre-req	departmental approval
RED 3393* TSL 4324C*	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers	3	Pre-req	departmental approval
RED 3393* TSL 4324C*	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience	3	Pre-req	departmental approval
RED 3393* TSL 4324C* *Course requires a	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience	3	Pre-req	departmental approval
RED 3393* TSL 4324C* *Course requires a Discipline Conter	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience ant – 29 31 credits	3 3	Pre-req Pre-req	departmental approval EDG 3321
RED 3393* TSL 4324C* *Course requires a Discipline Conter BCH 3023	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab	3 3 3	Pre-req Pre-req Pre-/Co-req Pre-/Co-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023;
RED 3393* TSL 4324C* *Course requires a Discipline Conter BCH 3023 BCH 3023L	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry	3 3 3 1 3	Pre-req Pre-req Pre-/Co-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L
RED 3393* TSL 4324C* *Course requires a Discipline Conter BCH 3023 BCH 3023L CHM 2200 CHM 2200L	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Lab	3 3 1 3 2	Pre-req Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L,/CHM 2200
RED 3393* TSL 4324C* *Course requires a Discipline Conter BCH 3023 BCH 3023L CHM 2200	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Lab Microbiology	3 3 3 1 3	Pre-req Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L/CHM 2200 BSC 2010, BSC 2010L, BSC 2011
RED 3393* TSL 4324C* *Course requires a Discipline Conter BCH 3023 BCH 3023L CHM 2200 CHM 2200L MCB 2010	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Survey of Organic Chemistry Lab Microbiology Instructional Technology in Math and Science	3 3 1 3 2 3	Pre-req Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L,/CHM 2200
RED 3393* TSL 4324C* *Course requires a Discipline Content BCH 3023 BCH 3023L CHM 2200 CHM 2200L MCB 2010 EME 3430 MCB 2010L	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Survey of Organic Chemistry Lab Microbiology Instructional Technology in Math and Science Microbiology Lab	3 3 1 3 2 3 2 2 2	Pre-req Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L/CHM 2200 BSC 2010, BSC 2010L, BSC 2011 departmental approval (Moved From Program Prerequisite)
RED 3393* TSL 4324C* *Course requires a Discipline Content BCH 3023 BCH 3023L CHM 2200 CHM 2200L MCB 2010 EME 3430 MCB 2010L PCB 3043	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Survey of Organic Chemistry Lab Microbiology Instructional Technology in Math and Science Microbiology Lab Foundations of Ecology	3 3 1 3 2 3 2 2 3	Pre-req Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-req Pre-req Pre-/Co-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L,/CHM 2200 BSC 2010, BSC 2010L, BSC 2011 departmental approval (Moved From Program Prerequisite) BSC 2010L /MCB 2010 BSC2011 and BSC 2011L
RED 3393* TSL 4324C* *Course requires a Discipline Content BCH 3023 BCH 3023L CHM 2200 CHM 2200L MCB 2010L EME 3430 MCB 2010L PCB 3043 PCB 3060	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Survey of Organic Chemistry Lab Microbiology Instructional Technology in Math and Science Microbiology Lab Foundations of Ecology Principles of Genetics	3 3 1 3 2 3 2 2 3 3 3	Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L,/CHM 2200 BSC 2010, BSC 2010L, BSC 2011 departmental approval (Moved From Program Prerequisite) BSC 2010L/MCB 2010 BSC 2010L and BSC 2011L BSC2010 and BSC 2010L
RED 3393* TSL 4324C* *Course requires a Discipline Content BCH 3023 BCH 3023L CHM 2200 CHM 2200L MCB 2010 EME 3430 MCB 2010L PCB 3043 PCB 3060 SCE 3893*	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Survey of Organic Chemistry Lab Microbiology Instructional Technology in Math and Science Microbiology Lab Foundations of Ecology Principles of Genetics Teaching and Learning the Nature of Science	3 3 1 3 2 3 2 2 3 3 3 3	Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L,/CHM 2200 BSC 2010, BSC 2010L, BSC 2011 departmental approval (Moved From Program Prerequisite) BSC 2010 /MCB 2010 BSC2011 and BSC 2011L BSC2010 and BSC2010L departmental approval
RED 3393* TSL 4324C* *Course requires a Discipline Conter BCH 3023 BCH 3023L CHM 2200 CHM 2200L MCB 2010L PCB 3043 PCB 3060 SCE 3893* SCE 4362*	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Survey of Organic Chemistry Lab Microbiology Instructional Technology in Math and Science Microbiology Lab Foundations of Ecology Principles of Genetics Teaching and Learning the Nature of Science Methods of Teaching Science	3 3 1 3 2 3 2 2 3 3 3 3 3 3	Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-req Pre-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L/CHM 2200 BSC 2010, BSC 2010L, BSC 2011 departmental approval (Moved From Program Prerequisite) BSC 2010 And BSC 2011L BSC2011 and BSC 2011L BSC2010 and BSC2010L departmental approval departmental approval
RED 3393* TSL 4324C* *Course requires a Discipline Conter BCH 3023 BCH 3023L CHM 2200 CHM 2200L MCB 2010 EME 3430 MCB 2010L PCB 3043 PCB 3060 SCE 4362* SCE 4363**	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Survey of Organic Chemistry Lab Microbiology Instructional Technology in Math and Science Microbiology Lab Foundations of Ecology Principles of Genetics Teaching and Learning the Nature of Science Methods of Teaching Science Advanced Topics in Science Education Practicum	3 3 1 3 2 3 2 2 3 3 3 3	Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L,/CHM 2200 BSC 2010, BSC 2010L, BSC 2011 departmental approval (Moved From Program Prerequisite) BSC 2010 AMCB 2010 BSC2011 and BSC 2011L BSC2010 and BSC2010L departmental approval
RED 3393* TSL 4324C* *Course requires a Discipline Conter BCH 3023 BCH 3023L CHM 2200 CHM 2200L MCB 2010 EME 3430 MCB 2010L PCB 3043 PCB 3060 SCE 4362* SCE 4363** *Course requires a	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Survey of Organic Chemistry Lab Microbiology Instructional Technology in Math and Science Microbiology Lab Foundations of Ecology Principles of Genetics Teaching and Learning the Nature of Science Methods of Teaching Science Advanced Topics in Science Education Practicum a minimum of 15 hours of field experience	3 3 1 3 2 3 2 2 3 3 3 3 3 3	Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-req Pre-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L/CHM 2200 BSC 2010, BSC 2010L, BSC 2011 departmental approval (Moved From Program Prerequisite) BSC 2010 I and BSC 2011L BSC2011 and BSC 2011L BSC2010 and BSC2010L departmental approval departmental approval
RED 3393* TSL 4324C* *Course requires a Discipline Conter BCH 3023 BCH 3023L CHM 2200 CHM 2200L MCB 2010 EME 3430 MCB 2010L PCB 3043 PCB 3060 SCE 4362* SCE 4363** *Course requires a	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Survey of Organic Chemistry Lab Microbiology Instructional Technology in Math and Science Microbiology Lab Foundations of Ecology Principles of Genetics Teaching and Learning the Nature of Science Methods of Teaching Science Advanced Topics in Science Education Practicum	3 3 1 3 2 3 2 2 3 3 3 3 3 3	Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-req Pre-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L/CHM 2200 BSC 2010, BSC 2010L, BSC 2011 departmental approval (Moved From Program Prerequisite) BSC 2010 And BSC 2011L BSC2011 and BSC 2011L BSC2010 and BSC2010L departmental approval departmental approval
RED 3393* TSL 4324C* *Course requires a Discipline Conten BCH 3023 BCH 3023L CHM 2200 CHM 2200L MCB 2010 EME 3430 MCB 2010L PCB 3043 PCB 3060 SCE 3893* SCE 4362* SCE 4363** *Course requires a **Course requires	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Survey of Organic Chemistry Lab Microbiology Instructional Technology in Math and Science Microbiology Lab Foundations of Ecology Principles of Genetics Teaching and Learning the Nature of Science Methods of Teaching Science Advanced Topics in Science Education Practicum a minimum of 40 hours of field experience	3 3 1 3 2 3 2 2 3 3 3 3 3 3	Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-req Pre-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L/CHM 2200 BSC 2010, BSC 2010L, BSC 2011 departmental approval (Moved From Program Prerequisite) BSC 2010 And BSC 2011L BSC2011 and BSC 2011L BSC2010 and BSC2010L departmental approval departmental approval
RED 3393* TSL 4324C* *Course requires a Discipline Conten BCH 3023 BCH 3023L CHM 2200 CHM 2200L MCB 2010 EME 3430 MCB 2010L PCB 3043 PCB 3060 SCE 3893* SCE 4362* SCE 4363** *Course requires a **Course requires	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Survey of Organic Chemistry Lab Microbiology Instructional Technology in Math and Science Microbiology Lab Foundations of Ecology Principles of Genetics Teaching and Learning the Nature of Science Methods of Teaching Science Advanced Topics in Science Education Practicum a minimum of 15 hours of field experience a minimum of 40 hours of field experience	3 3 1 3 2 3 2 2 3 3 3 3 3 3	Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-req Pre-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L/CHM 2200 BSC 2010, BSC 2010L, BSC 2011 departmental approval (Moved From Program Prerequisite) BSC 2010 And BSC 2011L BSC2011 and BSC 2011L BSC2010 and BSC2010L departmental approval departmental approval
RED 3393* TSL 4324C* *Course requires a BCH 3023 BCH 3023L CHM 2200 CHM 2200L MCB 2010 EME 3430 MCB 2010L PCB 3043 PCB 3060 SCE 3893* SCE 4362* SCE 4363** *Course requires a **Course requires a	Differentiated Instruction in Content Reading ESOL Strategies for Content Area Teachers a minimum of 15 hours of field experience nt – 29 31 credits Introduction to Biochemistry Introduction to Biochemistry Lab Survey of Organic Chemistry Survey of Organic Chemistry Lab Microbiology Instructional Technology in Math and Science Microbiology Lab Foundations of Ecology Principles of Genetics Teaching and Learning the Nature of Science Methods of Teaching Science Advanced Topics in Science Education Practicum a minimum of 40 hours of field experience	3 3 1 3 2 3 2 3 3 3 3 3 3 3	Pre-req Pre-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-/Co-req Pre-req Pre-/Co-req Pre-req Pre-req Pre-req Pre-req Pre-req	departmental approval EDG 3321 CHM 2000, or CHM 2210 and CHM 2211/BCH 3023 L CHM2200L or CHM 2210L and CHM2211L/BCH 3023; CHM 1046/CHM 2200L CHM 1046L/CHM 2200 BSC 2010, BSC 2010L, BSC 2011 departmental approval (Moved From Program Prerequisite) BSC 2010L /MCB 2010 BSC 2010L /MCB 2010 BSC 2010 and BSC 2011L BSC 2010 and BSC 2010L departmental approval departmental approval SCE4362

*** Course requires full-time field experience

Computer Competency: Upon completion of 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.

Courses taken to fulfill the general education requirements must be completed with a grade of "C" or better.

To be admitted to the Baccalaureate Degree in Education a student must have completed an A.A. degree **or** at least earned 60 semester credit hours from an accredited college or university with a minimum cumulative 2.5 Grade Point Average (GPA) on a 4.0 scale and present passing scores on all sections of the CLAST **or** the General Knowledge Test (GKT) without exceptions or waivers.

Fingerprint Requirement: Most courses in the teacher education program require school site-based field experiences, culminating in a full-time 12-week internship. School districts require a criminal background check for students completing service hours, field placement, practicum, or internships. Fingerprinting and FBI background check procedures are at the applicant's expense. Students with felony arrests may wish to consider these requirements carefully and, if necessary, seek advice

from an advisor in the School of Education before applying to programs in the School of Education. Students without a valid Social Security number will not be eligible for placement in the school district. The Director of Clinical Supervision and Internship Placement will assist students through these requirements.

A minimum of 30 semester hours of 3000-4000 level courses must be taken. Courses must be completed with a grade of "C" or better.

Foreign Language: Students admitted to the baccalaureate degree in Education without meeting the foreign language admission requirement of at least 2 courses of sequential foreign language at the secondary level or the equivalent of such instruction at the postsecondary level must earn such credits prior to graduation. Foreign language courses taken at the college level may be used to meet the diversity requirement.

Executive Summary – Modifications to Existing Program

Program Title:	BS Secondary Mathematics Education
Program Code:	S4200
Department:	Education
Effective Term:	Fall 2012-1
Degree Type:	Bachelor of Science
Affected Campuses:	1, 2, 3, 5, 6, 7, 8

Rationale:

Modify program to:

- meet mathematics pre-service teacher needs in teaching reading to secondary students; and
- address the new Florida Educator Accomplished Practice standards required by the FLDOE for teacher preparation.

Modification:

1. Professional Education Core:

- Delete: RED 3013 Foundations of Reading Instruction (3 credits)
- Add: RED 3393 Differentiated Instruction in Content Reading (3 credits)

APPROVE	OPPOSE	MORE INFORMATION

A. MIAMI DADE COLLEGE SCHOOL OF EDUCATION

B.S. - Secondary Mathematics Education

CIP: 1101313111 S4200

Total credits required for the degree is 120

Upon completion of the Bachelor of Science Degree in Secondary Mathematics Education program, the student will be eligible to obtain a Florida Educator Certification in Mathematics (grade 6-12).

Course	Course Title	Credits	Pre-/Co-Requisites					
Communications	e – 6 credits							
ENC 1101	English Comp 1	3						
ENC 1102	English Comp 2	3	Pre-req	ENC 1101 or equivalent with a grade of "C" or better				
Oral Communications – 3 credits								
Select three (3) cre	edits from the following oral communications courses:							
LIT 24801	Issues in Lit & Culture	3						
SPC 1026	Fund of Speech Communication	3						
ENC 2106	Advanced Communication Skills	3						
¹ Note: Lit 2480 m	neets 3 of 9 required credits of international / diversity	focus						
Humanities – 6 c	redits							
	e three (3) credits from Group A and three (3) credit	s from Group	B:					
Group A								
ARH 1000	Art Appreciation	3						
DAN 2100	Dance Appreciation	3						
HUM 1020	Humanities	3						
MUL 1010	Music Appreciation	3						
PHI 2604	Critical Thinking and Ethics	3	Pre-req	ENC 1101				
Group B								
ARH 2740	Cinema Appreciation	3	Pre-req	HUM1020				
LIT 2120	A Survey of World Literature	3	Pre-req	ENC 1101, ENC 1102, or equivalent				
MUL 2380	Jazz & Pop Music in America	3	-	-				
PHI 2010	Introduction to Philosophy	3						
THE 2000	Theatre Appreciation	3						
	**							

Behavioral/Social Sciences - 6 credits

Students must take three (3) credits from Group A and three (3) credits from Group B: If student selects a 1000 level course from one group, a 2000 level course must be selected from the other group. **Group A** (3 credits)

ANT 2410	Introduction to Cultural Anthropology	3	
DEP 2000 *	Human Growth and Development	3	* recommended by SOE faculty
ISS 1161	The Individual in Society	3	
CLP 1006	Psychology of Personal Effectiveness	3	
PSY 2012	Introduction to Psychology	3	
SYG 2000	Introduction to Sociology	3	
Group B (3 credits)			
AMH 2010	History of the U.S. to 1877	3	
AMH 2020	History of the U.S. since 1877	3	
ECO 2013	Principles of Economics	3	
ISS 1120	The Social Environment	3	
POS 2041	American Federal Government	3	
WOH 2012	History of World Civilizations to 1715	3	
WOH 2022	History of World Civilization from 1715	3	
	•		

Natural Science – 6 credits

Students must take three (3) credits from Life Sciences and three (3) credits from Physical Sciences, excluding labs.Life SciencesBOT, BSC, OCB, PCB, ZOO3Physical SciencesAST, CHM, ESC, GLY, MET, OCE, PHY, PSC3

Mathematics - 6 credits

MAC 1147	Pre-Calculus, Algebra, & Trigonometry	5	Pre-req	MAC 1105 with a grade of "C" or better or departmental
STA 2023	Statistical Methods	3	permission Pre-req permission	MAC 1105 with a grade of "C" or better or departmental

*the additional 2 credit hours will be counted as Elective credits within the program prerequisite credits

General Education Elective - 3 credits

EEV 2000*	Interdention to Consist Education	2				
EEX 2000*	Introduction to Special Education	3				
Education Common Prerequisites – 9 credits						
EDG 2701* ²	Diverse Populations	3				
EDG 2701 EDF 1005 $*^2$	Introduction to Education	3	Pre-req	EDF 1005		
EME 2040	Introduction to Educational Technology	3	1	CGS 1060 or computer competency exam		
	and EEX 2000 meet 6 of 9 required credits of interna		1	conficting exam		
* Course requires a minimum of 15 hours of field experience						
course requires t	i minimum of 15 hours of field experience					
Program Prerequ	isites – 15 credits					
MAC 1147*	Pre-Calculus, Algebra, & Trigonometry	GE (2)	Pre-req	MAC 1105 with a grade of "C" or better or departmental		
			permission			
MAC 2311	Calculus and Analytical Geometry 1	5	Pre-req	MAC 1114 and MAC 1140 or MAC 1147 with a grade of		
				r or departmental permission		
MAC 2312	Calculus and Analytical Geometry 2	4	Pre-req	MAC 2311 with a grade of "C" or better		
MAC 2313	Calculus and Analytical Geometry 3	4	Pre-req	MAC 2312 with a grade of "C" or better		
*2credit hours of N	Aathematics (Overage from Gen. Ed. requirements) v	vill be counted	i as program p	re-requisite credits.		
D (' 151						
	cation Core - 18 credits	2	Dec /Comme	EDC 2221		
EDF 4430	Measurement & Assessment in Education	3	1	EDG 3321		
EDG 3321	General Teaching Skills	3	Pre-req	EDF 1005, EDG 2701, EEX 2000, EME 2040		
EDG 3411*	Classroom Management for Regular and	3				
FFW 2071*	Exceptional Students	2	Decement	EDC2701 EEV 2000		
EEX 3071*	Teaching Exceptional and Diverse Students in	3	Pre-req	EDG2701, EEX 2000		
DED 2012*	Inclusive Settings Foundations of Reading Instruction	3	Dro rog			
RED 3013*		÷	Pre-req	- EDG 5521		
DED 2202*	Differentiated Instruction for Content Reading	2	Pre-reg	departmental approval		
RED 3393*	Differentiated Instruction for Content Reading ESOL Strategies for Content Area Teachers	3	Pre-req Pre-req	departmental approval		
TSL 4324C*	ESOL Strategies for Content Area Teachers	3 3	Pre-req Pre-req	departmental approval EDG 3321		
TSL 4324C*			•			
TSL 4324C* *Course requires a	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience		•			
TSL 4324C* *Course requires a Discipline Conten	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits	3	Pre-req	EDG 3321		
TSL 4324C* *Course requires a Discipline Conten EME 3410	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science	3	•	EDG 3321 Departmental permission		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures	3 2 3	Pre-req Pre-req	EDG 3321		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360*	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics	3 2 3 3	Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures	3 2 3	Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360*	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum	3 2 3 3 3	Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940**	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations	3 2 3 3	Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations Linear Algebra	3 2 3 3 3 3 3	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302 MAS 3105	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations	3 2 3 3 3 3 3 3 3	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent MAC 2312 with a "C" or better or equivalent		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302 MAS 3105 MAS 3301	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations Linear Algebra Algebraic Structures Number Theory	3 2 3 3 3 3 3 3 3 3 3	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent MAC 2312 with a "C" or better or equivalent MAC 2312 with a "C" or better or equivalent		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302 MAS 3105 MAS 3301 MAS 4203	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations Linear Algebra Algebraic Structures Number Theory History of Mathematics	3 2 3 3 3 3 3 3 3 3 3 3 3	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent MAC 2312 with a "C" or better or equivalent MAC 2312 with a "C" or better or equivalent MAC 2312 with a "C" or better or equivalent		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302 MAS 3105 MAS 3105 MAS 3301 MAS 4203 MHF 4404 MTG 3214	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations Linear Algebra Algebraic Structures Number Theory History of Mathematics Euclidean Geometry	3 2 3 3 3 3 3 3 3 3 3 3 3 3	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent MAC 2312 with a "C" or better or equivalent		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302 MAS 3105 MAS 3301 MAS 4203 MHF 4404 MTG 3214 *Course requires a	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations Linear Algebra Algebraic Structures Number Theory History of Mathematics Euclidean Geometry minimum of 15 hours of field experience	3 2 3 3 3 3 3 3 3 3 3 3 3 3	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent MAC 2312 with a "C" or better or equivalent		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302 MAS 3105 MAS 3301 MAS 4203 MHF 4404 MTG 3214 *Course requires a	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations Linear Algebra Algebraic Structures Number Theory History of Mathematics Euclidean Geometry	3 2 3 3 3 3 3 3 3 3 3 3 3 3	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent MAC 2312 with a "C" or better or equivalent		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302 MAS 3105 MAS 3301 MAS 4203 MHF 4404 MTG 3214 *Course requires a	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations Linear Algebra Algebraic Structures Number Theory History of Mathematics Euclidean Geometry minimum of 15 hours of field experience a minimum of 40 hours of field experience	3 2 3 3 3 3 3 3 3 3 3 3 3 3	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent MAC 2312 with a "C" or better or equivalent		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302 MAS 3105 MAS 3301 MAS 4203 MHF 4404 MTG 3214 *Course requires a **Course requires a	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations Linear Algebra Algebraic Structures Number Theory History of Mathematics Euclidean Geometry minimum of 15 hours of field experience a minimum of 40 hours of field experience	3 2 3 3 3 3 3 3 3 4	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent MAC 1105 with a grade of "C" or better or departmental		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302 MAS 3105 MAS 3301 MAS 4203 MHF 4404 MTG 3214 *Course requires a	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations Linear Algebra Algebraic Structures Number Theory History of Mathematics Euclidean Geometry minimum of 15 hours of field experience a minimum of 40 hours of field experience	3 2 3 3 3 3 3 3 3 3 3 3 3 3	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent MAC 2312 with a "C" or better or equivalent		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302 MAS 3105 MAS 3105 MAS 3301 MAS 4203 MHF 4404 MTG 3214 *Course requires a *Course requires a Student Teaching MAE 4942	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations Linear Algebra Algebraic Structures Number Theory History of Mathematics Euclidean Geometry minimum of 15 hours of field experience a minimum of 40 hours of field experience XInternship – 12 credits Seminar in Mathematics	3 2 3 3 3 3 3 3 3 3 4 3 3 3 3 3 3 3 3 3	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent MAC 1105 with a grade of "C" or better or departmental		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302 MAS 3105 MAS 3301 MAS 4203 MHF 4404 MTG 3214 *Course requires a **Course requires a	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations Linear Algebra Algebraic Structures Number Theory History of Mathematics Euclidean Geometry minimum of 15 hours of field experience a minimum of 40 hours of field experience	3 2 3 3 3 3 3 3 3 4	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent MAC 1105 with a grade of "C" or better or departmental		
TSL 4324C* *Course requires a Discipline Conten EME 3410 MAD 3107 MAE 4360* MAE 4940** MAP 2302 MAS 3105 MAS 3105 MAS 3301 MAS 4203 MHF 4404 MTG 3214 *Course requires a **Course requires a Student Teaching MAE 4945***	ESOL Strategies for Content Area Teachers minimum of 15 hours of field experience t – 30 credits Instructional Technology in Math and Science Discrete Structures Methods of Teaching Mathematics Advanced Topics in Mathematics Education Practicum Introduction to Differential Equations Linear Algebra Algebraic Structures Number Theory History of Mathematics Euclidean Geometry minimum of 15 hours of field experience a minimum of 40 hours of field experience XInternship – 12 credits Seminar in Mathematics	3 2 3 3 3 3 3 3 3 3 4 3 3 3 3 3 3 3 3 3	Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req Pre-req	EDG 3321 Departmental permission MAC 2312 with a "C" or better or equivalent EDF 4430, EDG 3321 MAE 4360 MAC 2312 with a "C" or better or equivalent MAC 1105 with a grade of "C" or better or departmental		

Computer Competency: Upon completion of 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.

Courses taken to fulfill the general education requirements must be completed with a grade of "C" or better.

To be admitted to the Baccalaureate Degree in Education a student must have completed an A.A. degree or at least earned 60 semester credit hours from an accredited college or university with a minimum cumulative 2.5 Grade Point Average (GPA) on a 4.0 scale and present passing scores on all sections of the CLAST or the General Knowledge Test (GK without exceptions or waivers.

Fingerprint Requirement: Most courses in the teacher education program require school site-based field experiences, culminating in a full-time 12-week internship. School districts require a criminal background check for students completing service hours, field placement, practicum, or internships. Fingerprinting and FBI background check procedure are at the applicant's expense. Students with felony arrests may wish to consider these requirements carefully and, if necessary, seek advice from an advisor in the School of Education before applying to programs in the School of Education. Students without a valid Social Security number will not be eligible for placement in the school district. The Director of Clinical Supervision and Internship Placement will assist students through these requirements.

A minimum of 30 semester hours of 3000-4000 level courses must be taken. Courses must be completed with a grade of "C" or better.

Foreign Language: Students admitted to the baccalaureate degree in Education without meeting the foreign language admission requirement of at least 2 courses of sequential foreign language at the secondary level or the equivalent of such instruction at the postsecondary level must earn such credits prior to graduation. Foreign language courses taken at the college level may be used to meet the diversity requirement.

Diversity: Students must complete 9 credits of courses with an international/ diversity focus of which 6 credits are satisfied by EDG2701 and EEX2000. Accepted courses are noted with a number.

Executive Summary – Modifications to Existing Program

Program Title:	BS Exceptional Student Education (K-12)
Program Code:	S4300
Department:	Education
Effective Term:	Fall 2012-1
Degree Type:	Bachelor of Science
Affected Campuses:	1, 2, 3, 5, 6, 7, 8

Rationale:

Modify program to:

- meet science pre-service teacher needs in teaching reading to secondary students; and
- address the new Florida Educator Accomplished Practice standards • required by the FLDOE for teacher preparation.

Modification:

5. Discipline Content:

- Remove from **program only** the following courses:
 - 1. EEX 3103 Survey of Language Development & Common Disorders (1 credits)
 - 2. EEX 3760 Instructional & assistive Technology in Special Education (2 credits)
 - 3. EEX 4834 Practicum in Special Education (3 credits)
 - 4. TSL 3331 ESOL: Language Principles and Acquisition (3 credits)
 - 5. TSL 3520 ESOL II: Communication and Culture (3 credits)
 - 6. TSL 4347 ESOL III: Methods of Teaching ESOL Students (3 credits)
- Add:
 - 1. EEX 3102 Language Development & Communication Disorders (3 credits)
 - 2. EEX 4XXX Instructional & Assistive Technology in Special Education (3 credits)
 - 3. EEX 4833 Practicum in Special Education (3 credits)
 - 4. TSL 3XXX ESOL I: Second Language Acquisition, Communication, & Culture (3 credits)
 - 5. TSL4311 ESOL II: Methods of Teaching ESOL Students (3 Credits)

APPROVE_____OPPOSE_____MORE INFORMATION_____

B. MIAMI DADE COLLEGE SCHOOL OF EDUCATION

Bachelor of Science Degree Exceptional Student Education Total credits required for the degree is 120

Upon completion of the Bachelor of Science Degree in Exceptional Student Education program, the student will be eligible to obtain a Florida Educator Certification in Exceptional Student Education (K-12).

GENERAL EDUCATION REQUIREMENTS

Course	Course Title	Credits	Pre-/Co	-Requisites
Communications				
ENC 1101	English Comp 1	3	_	
ENC 1102	English Comp 2	3	Pre-req	ENC 1101 or equivalent with a grade of "C" or better
Oral Communicat	ions – 3 cradits			
	lits from the following oral communications courses:			
LIT 2480 ¹	Issues in Lit & Culture	3		
SPC 1026	Fund of Speech Communication	3		
ENC 2106	Advanced Communication Skills	3		
	eets 3 of 9 required credits of international / diversity			
1000. En 2400 m	sol s of s required creaks of international s diversity	locus		
Humanities – 6 cr	edits			
Students must take	three (3) credits from Group A and three (3) credit	s from Group	B:	
Group A		, I		
ARH 1000	Art Appreciation	3		
DAN 2100	Dance Appreciation	3		
HUM 1020	Humanities	3		
MUL 1010	Music Appreciation	3		
PHI 2604	Critical Thinking and Ethics	3	Pre-req	ENC 1101
11112000	Children Thinking and Eanes	0	1	
Group B				
ARH 2740	Cinema Appreciation	3	Pre-req	HUM1020
LIT 2120	A Survey of World Literature	3	Pre-req	ENC 1101, ENC 1102, or equivalent
MUL 2380	Jazz & Pop Music in America	3		
PHI 2010	Introduction to Philosophy	3		
THE 2000	Theatre Appreciation	3		
Behavioral/ Socia	l Sciences – 6 credits			
Students must take	three (3) credits from Group A and three (3) credit	s from Group	B:	
If student selects a	1000 level course from one group, a 2000 level cour	rse must be sei	lected fron	n the other group.
Group A (3 credits)			
ANT 2410	Introduction to Cultural Anthropology	3		
DEP 2000 *	Human Growth and Development	3	* recom	mended by SOE faculty
ISS 1161	The Individual in Society	3		
PPE 1005	Psychology of Personal Effectiveness	3		
PSY 2012	Introduction to Psychology	3		
SYG 2000	Introduction to Sociology	3		
Group B (3 credits))			
AMH 2010	History of the U.S. to 1877	3		
AMH 2020	History of the U.S. since 1877	3		
ECO 2013	Principles of Economics	3		
ISS 1120	The Social Environment	3		
POS 2041	American Federal Government	3		
WOH 2012	History of World Civilizations to 1715	3		
WOH 2022	History of World Civilization from 1715	3		
	•			
Natural Sc	ience – 6 credits			
	three (3) credits from Life Sciences and three (3) cr	radits from Dh	usical Scie	ncos oveludina labs
Life Sciences	BOT, BSC, OCB, PCB, ZOO	3	ysicui scie	inces, excluding lubs.
Physical Sciences	AST, CHM, ESC, GLY, MET, OCE, PHY, PSC	3		
i nysicai sciences	A_{D1} , CHIVI, ESC, OL 1, MIE 1, OCE, FR 1, PSC	5		
Mathematics – 6 c	redits			
1 6 1 1	1. 1.1			

MÁC

Any 6 credits excluding labs:

MAP

MAS

MGF

MAD

QMB 2100

STA 2023

MTG 2204

General Education Elective - 3 credits

EDF 1005*	Introduction to Education	3			
Education Common Prerequisites – 9 credits					
EDF 2085*2	Diverse Populations	3			
EEX 2000 *2	Introduction to Special Education	3	Pre-req	EDF 1005	
EME 2040	Introduction to Educational Technology	3	Pre-req	EDF 1005	
² Note: EDF 2085 at	² Note: EDF 2085 and EEX 2000 meet 6 of 9 required credits of international/diversity focus				

* Course requires a minimum of 15 hours of service learning experience

Electives – 15 credits

Courses that are not used for General Education Requirements may be used for electives here (refer to list below).

Students are encouraged to check with their advisor or go to www.FACTS.org for transfer information.

ACG, AFH, AFR, AMH, AML, ANT, ARC, ARE, ARH, ART, ASC, ASH, AST, ATF (except 26301), AVM (except 1062, 1520, 1521), AVS, BCN, BOT, BRC1001,BSC, BUL, CCJ (except 1102), CDA 2528, CGS (except 1400, 1500, 1501, 1510, 511, 1541, 1543, 1560, 1564, 1571, 1580, 1810, 1871, 2140C, 2423, 2567), CHI, CHM, CIS 1000, CJD (except 1442, 1940), CJT (except 2994), CLP, COE1949, COP (except 1160, 1340, 2122, 2123, 2162, 2334, 2336, 2345, 2400, 2401, 2700, 2704), COT, CPO, CRW, CTE (except 2781L, 2782L, 2783L, 2862, 2863, 2864), DAA, DAN (except 1500, 1501), DEH, DEP, DES, DIE, ECO, ECP, ECS, EDF, EDG, EEC, EEL, EET (except 1949, 2949), EEX, EGS, EHD (except 1402, 1941), EME, ENC 1210, 2302, ENG, ENL, EST, ETC, ETD, ETE, ETG, ETI, ETM, ETN (except 1350, 1351, 2352, 2455), EUH, FIL (except 2278, 2945), FIN 2000, FOT, FRE, FRW, FSS 1115, 2431, GEA, GEB, GEO, GER, GEY (except 2000), GLY, GRA, (except 1949, 2949), HAL, HBR, HFT (except 1949, 2949), HLP (except 1082), HOS, HSA, HSC (except 1200, 2531, 2532, 2554), HUM 2513, 2574, HUN, HUS, IDH, IND, INP, INR, ISC, ISS, ITA, JOU, PN, JST, LAH, LEI, LIN, LIS, LIT, MAC, MAD, MAN (except 1949, 2949), MAP, MAR, MAS, MCB, MET, MGF, MIS, MKA (except 1949, 2949), MMC, MRE (except 2920, 2930), MTG 2204, 2204L, MUC, MUE, MUG, MUH, MUL, MUM, MUO, MUS, MUT, MVB, MVJ, MVK, MVO, MVP, MVS, MW, MVW, NUR, OCB, OCE, OPT, ORH (except 2234, 2277, 2932, 2949), ORI 2000, OST (except 1741, 1741L, 1742, 1742L, 1821, 1949, 2224, 2387, 2388, 2822, 2930, 2949), PAD, PCB, PCO, PEP, PEQ, PET (except 2303, 2303L, 2940), PGY, PHH, PHI, PHM, PHT (except 2120, 2120L, 2931), PHY, PLA, POR, POS, POT, PPE, PSB, PSC, PSY, PUR, QMB, RAT, REA1106, 1205, REE, REL, RET (except 1273, 1273L, 1830, 1841, 2930, 2931, 2932), RTE (except 2061), RUS, RTV, SLS 1401, SOP, SOW, SPA, SPC (except 2440, 24471), SPN (except 1030, 1031), SPT, SPW, STA, SUR, SYG, TAX, THE, TPA; TPP, TRA, VIC, WOH, ZOO

Professional Edi	ucation Core - 15 credits			
EDG 3321	General Teaching Skills	3	Pre-req EDF 1005, EDF2085, EEX 2000, EME 2040	
EDF 4430	Measurement & Assessment in Education	3	Pre-req EDG 3321	
EDG 3443*	Classroom and Behavior Management	3	Co/Pre-req EDG 3321	
EEX 3071*	Teaching Exceptional and Diverse Populations in Inclusive Settings	3	Co/Pre-req EEX 2000, EDG3443	
RED 3013*	Foundations of Reading Instruction	3	Co/Pre-req EDG 3321	
*Course requires	a minimum of 15 hours of clinical experience			
Ĩ				
Discipline Conte				
EDG 4376*	Integrating Language Arts and Social Sciences	3	Co/Pre-req EDG 3321, EDF 4430, RED 3393	
EEX3103	Survey of Language Development & Common Disorders Remove from program ONLY,	+		
EEX 3102	Language Development and Communication	3	Co/Pre-reg EDG3321,TSL3XXX	
	Disorders			
EEX3760	Instructional & Assistive Technology in Special	2		
	Education Remove from program ONLY.			
EEX 4XXX	Instructional and Assistive Technology in Special	3	Pre-/Co- req EME 2040,EDG3321,EEX 3071	
	Education			
EEX 4221*	Assessment in Special Education	3	Pre-req EDG3321, EDF4430	
EEX4834	Practicum in Special Education Remove from program O	NLY. 3		
EEX 4833**	Practicum in Special Education	3	Pre-/Co-req EDG 3443, EDG 4376, RED 4519	
MAE 4360*	Methods of Teaching Mathematics	3	Pre-req EDF 4430, EDG 3321	
RED 3393*	Differentiated Instruction in Content Reading	3		
RED 4519*	Diagnosis and Instructional Intervention in Reading	3	Co/Pre-req RED 3013,EEX4833	
SCE 4362*	Methods of Teaching Science	3	Pre-req EDF 4430, EDG 3321	
TSL 3331	ESOL: Language Principles and Acquisition Remove	from 3		
TSL3520	program ONLY.	3		
TSL 4347	ESOL II: Communication and Culture Remove from	3		
	program ONLY. ESOL III: Methods of Teaching ESOL Students <mark>Rem</mark>	ove		
TSL 3XXX*	from program ONLY. ESOL I: Second Language Acquisition,	3	Co/Pre-req EDG 3321	
	Communication, and Culture			
TSL 4311*	ESOL II: Methods of Teaching ESOL Students	3	Pre-req TSL 3XXX	
*Course requires	a minimum of 15 hours of clinical experience			
	s a minimum of 60 hours of clinical experience			
Standard Taxab	- (Justannahim 12 and its			
EEX 4940***	g/Internship – 12 credits	9	Pre-req/Co-req All coursework and state exams completed and passed/EEX	
EEA 4940****	Internship in Special Education	7	rie-req/co-req All coursework and state exams completed and passed/EEX	

 EEX 4940***
 Internship in Special Education
 9
 Pre-req/Co-req All coursework and state exams completed and passed/EEX 4930

 EEX 4930***
 Seminar in Special Education
 3
 Pre-req/Co-req All coursework and state exams completed and passed/EEX 4930

*** Course requires full-time clinical experience

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Executive Summary – Modifications to Existing Program

Program Title: Program Code: Department: Effective Term: Degree Type: Affected Campuses:	Secondary Science Education - Physics S4103 Education Fall 2012-1 Bachelor of Science 1, 2, 3, 5, 6, 7, 8
• Add: RED 3393 - 2. BS Courses :	 Modify program to: meet science pre-service teacher needs in teaching reading to secondary students; and address the new Florida Educator Accomplished Practice standards required by the FLDOE for teacher preparation. <i>ion Core:</i> 3 – Foundations of Reading Instruction (3 credits) Differentiated Instruction in Content Reading (3 credits) 0 (2 credits) to Upper Division Science Education Discipline Content Area
	5 to Program Prerequisites Area

APPROVE OPPOSE MORE INFORMATION

• MIAMI DADE COLLEGE SCHOOL OF EDUCATION

Bachelor of Science Degree Secondary Science Education – Physics Total credits required for the degree is 120

Upon completion of the Bachelor of Science Degree in Secondary Science Education in Physics program, the student will be eligible to obtain a Florida Educator Certification in Physics (grade 6-12).

GENERAL EDUC	ATION REQUIREMENTS						
Course	Course Title	Credits	Pre-/Co-	Requisites			
Communications –	- 6 credits						
ENC 1101	English Comp 1	3					
ENC 1102	English Comp 2	3	Pre-req	ENC 1101 or equivalent with a grade of "C" or better			
Oral Communications – 3 credits							
	lits from the following oral communications courses:	2					
LIT 2480 ¹	Issues in Lit & Culture	3					
SPC 1026	Fund of Speech Communication	3					
ENC 2106	Advanced Communication Skills	3					
¹ Note: Lit 2480 me	eets 3 of 9 required credits of international / diversity	locus					
Humanities – 6 cre	dits						
	three (3) credits from Group A and three (3) credits fr	om Group B.					
Group A	linee (3) creatts from Group 74 and tinee (3) creatts in	om Group B.					
ARH 1000	Art Appreciation	3					
DAN 2100	Dance Appreciation	3					
HUM 1020	Humanities	3					
		3					
MUL 1010	Music Appreciation	3	Due ue e	ENC 1101			
PHI 2604	Critical Thinking and Ethics	3	Pre-req	ENC 1101			
Group B		2	D	HID (1020			
ARH 2740	Cinema Appreciation	3	Pre-req	HUM1020			
LIT 2120	A Survey of World Literature	3	Pre-req	ENC 1101, ENC 1102, or equivalent			
MUL 2380	Jazz & Pop Music in America	3					
PHI 2010	Introduction to Philosophy	3					
THE 2000	Theatre Appreciation	3					
Behavioral/ Social	Sciences – 6 credits						
	three (3) credits from Group A and three (3) credits fr	om Group B:					
	1000 level course from one group, a 2000 level course		rted from t	he other group			
Group A (3 credits)	• •	indice of seree		lie oulei Broupi			
ANT 2410	Introduction to Cultural Anthropology	3					
DEP 2000 *	Human Growth and Development	3	* recomm	nended by SOE faculty			
ISS 1161	The Individual in Society	3	reconn	hended by SOE faculty			
CLP 1006	Psychology of Personal Effectiveness	3					
PSY 2012	Introduction to Psychology	3					
SYG 2000	Introduction to Sociology	3					
		3					
Group B (3 credits) AMH 2010		3					
	History of the U.S. to 1877						
AMH 2020	History of the U.S. since 1877	3					
ECO 2013	Principles of Economics	3					
ISS 1120	The Social Environment	3					
POS 2041	American Federal Government	3					
WOH 2012	History of World Civilizations to 1715	3					
WOH 2022	History of World Civilization from 1715	3					
Natural Science –	6 credits						
BSC 1005		3					
PSC 1515	General Education Biology Energy in the Nature Environment	3					
1 30 1313	Energy in the mature Environment	5					
Mathematics – 6 c	redits						
MAC 2311	Calculus and Analytical Geometry 1	5	Pre-req	MAC 1114 and MAC 1140 or MAC 1147 with a grade of			
				ter or departmental permission			
MAC 2312	Calculus and Analytical Geometry 2	4	Pre-req	MAC 2311 with a grade of "C" or better			
It is expected that st	It is expected that students pursuing a BS-Physics Education degree will possess appropriate math skills for placement in MAC 2311.						

It is expected that students pursuing a BS-Physics Education degree will possess appropriate math skills for placement in MAC 2311. * 3 credit hours of Mathematics (overage from Gen Ed Math requirements) will be counted as program pre-requisite credits

General Education Elective - 3 credits						
EDF 1005*	Introduction to Education	3				
Education Common	1 Prerequisites – 9 credits					
EDG 2701*2	Diverse Populations	3				
EEX 2000 *2	Introduction to Special Education	3				
EME 2040	Introduction to Educational Technology	3	Pre-req	CGS 1060 or computer competency		
² Note: EDG 2701 and EEX 2000 meet 6 of 9 required credits of international/diversity focus						
* Course requires a r	ninimum of 15 hours of field experience	-				

Program Prerequisites – 15 16 credits

i rogram i rerequ	isites 15 fo cicults			
CHM 1045	General Chemistry	3	(Moved from	Discipline Content)
MAC 2311*	Calculus and Analytical Geometry 1	GE (3)	Pre-req	MAC 1114 and MAC 1140 or MAC 1147 with a grade of "C" or better or departmental permission
PHY 2048	Physics with Calculus I	4	Pre-/Co-req	High school physics or PHY 1025, PHY 2053, or departmental approval and MAC 2311/PHY 2048L
PHY 2048L	Physics with Calculus I Lab	1	Pre-/Co-req	High school physics or PHY 1025, or PHY 2053, or departmental approval and MAC 2311/PHY 2048
PHY 2049	Physics with Calculus II	4	Pre/Co-req	PHY 2048/MAC 2312, PHY 2049L
PHY 2049L	Physics with Calculus II Lab	1	Pre/Co-req	PHY 2048L/MAC 2312, PHY 2049
* 3 credit hours of Mathematics (overage from Gen Ed Math requirements) will be counted as program pre-requisite credits				

I I OI OBDIOINTI LIGUION						
EDG 3321*	General Teaching Skills	3	Pre-req	EDF 1005, EDG 2701, EEX 2000, EME 2040		
EDF 4430	Measurement & Assessment in Education	3	Pre-/Co-req	EDG 3321		
EDG 3411	Classroom Management for Comm. K-12	3	Pre-req	EDG 3321		
EEX 3071*	Teaching Exceptional and Diverse Populations in	3	Pre-req	EEX 2000		
	Inclusive Settings					
RED 3013*	Foundations of Reading Instruction	3	Pre-req	EDG 3321(Remove From Program Only)		
RED 3393*	Foundations of Reading Instruction	3	Pre-req	departmental approval		
TSL 4324C*	ESOL Strategies for Content Area Teachers	3	Pre-req	EDG 3321		
*Course requires a r	*Course requires a minimum of 15 hours of field experience					

Course requires a minimum of 15 hours of field experience

Discipline Content – 30 credits

AST 1002	Astronomy	3		
EME 3430	Instructional Technology in Math and Science	2	Pre-req	departmental approval (Moved from Program Prerequisites)
MAP 2302	Introduction to Differential Equations	3	Pre-req	MAC 2312 with a "C" or better or equivalent
PHY 2504	Thermodynamics and Waves	2	Pre-req	MAP 2302 and PHY 2049
PHY 3101	Modern Physics	3	Pre-req	MAP 2302 and PHY 2049, PHY 2048
PHY 3802L	Intermediate Physics Lab	1	Pre-req	MAP 2302 and PHY 2049, PHY 2048
PHY 4220	Classical Mechanics	3	Pre-req	MAP 2302 and PHY 2049, PHY 2048
PHY4424	Optics	3	Pre-req	MAP 2302 and PHY 2049, PHY 2048
SCE 3893	Teaching and Learning the Nature of Science	3	Pre-req	departmental approval
SCE 4362*	Methods of Teaching Science	3	Pre-req	departmental approval
SCE 4363**	Advanced Topics in Science Education Practicum	3	Pre-req	SCE 4262
*Course requires a	minimum of 15 hours of field experience			
**Course requires	a minimum of 40 hours of field experience			
0	/Internship – 12 credits			
SCE 4945***	Student Teaching/Student Internship-Science	9	Co-req	SCE4943 and departmental approval
SCE 4943***	Seminar in Science Education	3	Co-req	SCE4945 and departmental approval

*** Course requires full-time field experience

Computer Competency: Upon completion of 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.

Courses taken to fulfill the general education requirements must be completed with a grade of "C" or better.

To be admitted to the Baccalaureate Degree in Education a student must have completed an A.A. degree or at least earned 60 semester credit hours from an accredited college or university with a minimum cumulative 2.5 Grade Point Average (GPA) on a 4.0 scale and present passing scores on all sections of the CLAST or the General Knowledge Test (GK without exceptions or waivers.

Fingerprint Requirement: Most courses in the teacher education program require school site-based field experiences, culminating in a full-time 12-week internship. School districts require a criminal background check for students completing service hours, field placement, practicum, or internships. Fingerprinting and FBI background check procedure are at the applicant's expense. Students with felony arrests may wish to consider these requirements carefully and, if necessary, seek advice from an advisor in the School of Education before applying to programs in the School of Education. Students without a valid Social Security number will not be eligible for placement in the school district. The Director of Clinical Supervision and Internship Placement will assist students through these requirements.

A minimum of 30 semester hours of 3000-4000 level courses must be taken. Courses must be completed with a grade of "C" or better.

Foreign Language: Students admitted to the baccalaureate degree in Education without meeting the foreign language admission requirement of at least 2 courses of sequential foreign language at the secondary level or the equivalent of such instruction at the postsecondary level must earn such credits prior to graduation. Foreign language courses taken at the college level may be used to meet the diversity requirement.

Executive Summary – Modifications to Existing Program

Program Title: Program Code: Department: Effective Term: Degree Type: Affected Campuses:	 B.S. with a major in Biological Sciences: Science Education Option S5202/S9202 Education Fall 2012-1 Bachelor of Science 1, 2, 3, 5, 6, 7, 8 			
Rationale:	 Modify program to: Meet science pre-service teacher needs in teaching reading to secondary students; and Address the new Florida Educator Accomplished Practice standards required by the FLDOE for teacher preparation. 			
Modification: 1. BIOLOGICAL SCIENCES SPECIALTY AREA – SCIENCE EDUCATION:				
 Remove from Program Only: RED 3013 – Foundations of Reading Instruction (3 credits) 				
• Add: RED 3393 – Differentiated Instruction in Content Reading (3 credits)				

APPROVE	OPPOSE	MORE INFORMATION	



Biological Sciences Bachelor of Science

C.I.P. (1102601011)

Total credits required for the degree is 120.

The Bachelor in Science (B.S.) in Biological Sciences is designed to provide students with a broad foundation in biology. Miami Dade College students will explore structure, function, genetics, and evolution of cells and organisms, while being provided the hands-on skills necessary to obtain jobs in the Biological/Life Science fields. Students take the core courses in biology, chemistry, physics and mathematics, and must meet the same General Education Requirements of all students seeking an AA degree. Students may choose from a variety of electives in science and general education to complete their degree requirements.

Course <u>GENERAL EDUCATION</u>	Course Title <u>REQUIREMENTS – 36 Credits Required</u>	Credits	Pre-/Co-Requisites
Communications – 6 C	Credits Required		
ENC 1101 ENC 1102	English Composition 1 English Composition 2	3 3	Pre-Req ENC 1101
Oral Communication –	· 3 Credits Required		
Select 3 Credits from t			
ENC 2300	Advanced Composition & Communication	3	Pre-Req ENC 1101, 1102
LIT 2480	Issues in Literature & Culture	3	Pre-Req ENC 1102
SPC 1017	Fundamentals of Speech Communications	3	
Humanities – 6 Credit			
Group A – Select 3 Cre	edits from the following:		
ARH 1000	Art Appreciation	3	
DAN 2100	Dance Appreciation	3	
HUM 1020	Humanities	3	
MUL 1010	Music Appreciation	3	
PHI 2010	Introduction to Philosophy	3	
	ND*		
агоир в – Select з сте ARH 2740	edits from the following: Cinema Appreciation	3	
MUL 2380	Jazz & Popular Music in America	3	
PHI 2604	Critical Thinking/Ethics	3	Pre-Req ENC 1102
THE 2000	Theatre Appreciation	3	
Group A – Select 3 Cre	Science – 6 Credits Required edits from the following:	-	
ANT 2410	Introduction to Cultural Anthropology	3	
CLP 1006	Psychology of Personal Effectiveness	3	
DEP 2000 ISS 1161	Human Growth & Development Individual in Society	3 3	
PSY 2012	Introduction to Psychology	3	
SYG 2000	Introduction to Psychology	3	
	ND*		
Group B – Select 3 Cre	edits from the following:		
AMH 2010	History of the United States to 1877	3	
AMH 2020	History of the United States since 1877	3	
ECO 2013	Principles of Economics (Macro)	3	
ISS 1120	The Social Environment	3	
POS 2041	American Federal Government	3	
WOH 2012	History of World Civilizations to 1715	3	
WOH 2022	History of World Civilizations from 1715	3	
Natural Science – 6 Cr Group A – Select 3 Cro	edits Required edits from the following		
BOT 1010	Botany	3	Pre/Co-Reg BOT 1010L
BSC 1005	General Education Biology	3	BSC 1005L (Optional Laboratory)
BSC 1005	Social Issues in Biology	3	
BSC 1050	Biology & Environment	3	
BSC 1084	Functional Human Anatomy	3	BSC 1084 (Optional Laboratory)
BSC 2010	Principles of Biology 1 (CP)	3	Pre/Co-Req BSC 2010L, CHM 1045

Course	Course Title	Credits	Pre-/Co-Requisites
Natural Science – C	ontinued		
BSC 2020	Human Biology:		
	Fundamental of Anatomy & Physiology	3	BSC 2020L (Optional Laboratory)
BSC 2085	Human Anatomy & Physiology 1	3	Pre/Co-Reg BSC 2085L
BSC 2250	Natural History of South Florida	3	
HUN 1201	Essentials of Nutrition	3	HUN 1201L (Optional Laboratory)
OCB 1010	Introduction to Marine Biology	3	OCB 1010L (Optional Laboratory)
PCB 2033	Introduction to Ecology	3	
PCB 2340C	Field Biology	3	
ZOO 1010	Zoology	3	Co-Req ZOO 1010L
*	AND*		
Group B – Select 3	Credits from the following		
AST 1002	Descriptive Astronomy	3	
CHM 1045*	General Chemistry/		
	Qualitative Analysis 1 (CP)	3	Co-Req CHM 1045L
GLY*			
MET*			
OCE*			
PHY*			
PSC 1121	General Education Physical Science	3	Pre-Req MAT 1033
PSC 1515	Energy in the Natural Environment	3	
	following prefix excluding labs.		
Mathematics – 6 Cr			
Select 6 Credits from		2	Due Dee MAT 1022 en Anne muiste Testine
MAC 1105*	College Algebra (RECOMMENDED)	3	Pre-Req MAT 1033 or Appropriate Testing
MAD* MAP*			
MAS*			
MGF*			
MTG 2204	Geometry for Educators	3	
QMB 2100	Basic Business Statistics	3	Co-Reg QMB 2100L
STA 2023	Statistical Methods (CP)	3	Pre-Reg MAT 1033 or Appropriate Testing
01112020		5	The field that 1000 of Appropriate resting
* Any course with the	following prefix excluding labs.		
General Education I	Elective – 3 Credits Required		
BSC 2011	Principles of Biology 2 (CP)	3	Pre-Reg BSC 2010,2010L; Co-Reg BSC 2011L
LOWER DIVISION O	COMMON PREREQUISITE REQUIREMENTS		
BSC 2010L	Principles of Biology 1 Lab	2	Pre/Co-Req CHM 1045/L; Co-Req BSC 2010
BSC 2011L	Principles of Biology 2 Lab	2	Pre-Req BSC 2010/L; Co-Req BSC 2011
CHM 1045L	General Chemistry/		
	Qualitative Analysis 1 Lab	2	Co-Req CHM 1045
CHM 1046	General Chemistry/	_	
	Qualitative Analysis 2	3	Pre-Req CHM 1045/L; Co-Req CHM 1046L
CHM 1046L	General Chemistry/	2	
0114 224 2	Qualitative Analysis 2 Lab	2	Pre-Req CHM 1045/L; Co-Req CHM 1046
CHM 2210	Organic Chemistry 1	3	Pre-Req CHM 1046/L; Co-Req CHM 2210L
CHM 2210L	Organic Chemistry 1 Lab	2	Pre-Req CHM 1046/L; Co-Req CHM 2210
CHM 2211	Organic Chemistry 2	3	Pre-Req CHM 1046/L; Co-Req CHM 2210L
CHM 2211L	Organic Chemistry 2 Lab	2	Pre-Req CHM 1046/L; Co-Req CHM 2210
MAC 2241	Life Science Calculus	3	Pre-Req MAC 1105

ALL SUBSEQUENT LOWER DIVISION COURSEWORK CAN BE TAKEN WITH UPPER DIVISION COURSEWORK

	Course Title EOUIREMENTS – 8 Credits Required	Credits	Pre-/Co-Requisites				
PHY 2053	Physic 1 (without Calculus)	3	Pre-Reg MAC 2241; Co-Reg PHY 2053L				
PHY 2053L	Physic 1 (without Calculus) Lab	1	Pre-Reg MAC 2241; Co-Reg PHY 2053				
PHY 2054	Physic 2 (without Calculus)	3	Pre-Reg PHY 2053; Co-Reg PHY 2054L				
PHY 2054L	Physic 2 (without Calculus) Lab	1	Pre-Req PHY 2053L; Co-Req PHY 2054				
UPPER DIVISION B	IOLOGICAL SCIENCES CORE CURRICUL	.UM – <mark>25</mark> Credits F	Required				
BCH 3023	Biochemistry	3	Pre-Reg BSC 2011/L, CHM 2211/L; Co-Reg				
	,		BCH 3023L				
BCH 3023L	Biochemistry Lab	2	Pre-Req BSC 2011/L, CHM 2211/L;				
			Co-Reg BCH 3023				
BSC 3930	Biological Sciences Seminar	1	Pre-Reg BSC 2011/L, CHM 2211/L				
MCB 3023	Principles of Microbiology	3	Pre-Reg BSC 2011/L, CHM 2211/L;				
			Co-Reg MCB 3023L				
MCB 3023L	Microbiology Lab	2	Pre-Req BSC 2011/L, CHM 2211/L;				
			Co-Req MCB 3023				
PCB 3060	Genetics	3	Pre-Req BSC 2011/L				
PCB 3060L	Genetics Lab	2 3 3	Pre-Req BSC 2011/L; Co-Req PCB 3060				
PCB 4023	Molecular and Cell Biology	3	Pre-Req BSC 2011/L				
PCB 4674	Evolution	3	Pre-Req BSC 2011/L, PCB 3060, 3060L				
BSC 4910	Senior Capstone Research Project	3	Pre-Req Completion of BS-BS Core				
			Curriculum & Approval by BS-BS Faculty				
	BIOLOGICAL SCIENCES SPECIALTY AREA Students must complete ONE of the following Specialty Areas:						
Stadents mast compie	ere of the following opecially Areas:						

AREA 1: BIOTECHNOLOGY (S5200/S9200) - 19 Credits Required				
BSC 2426	Biotechnology 1	3		
BSC 2426L	Biotechnology 1 Lab	2		
BSC 2427	Biotechnology 2	2 3 2 3		
BSC 2427L	Biotechnology 2 Lab	2		
BSC 4422	Biotechnology	3		
BSC 4422L	Biotechnology Lab	2		
PCB 4233C	Immunology	4		
AREA 2: BIOPHARMA	<u> CEUTICAL (S5201/S9201) – 19 Cro</u>	edits Required		
BOT 3015	Plant Diversity	3		
ZOO 3021	Animal Diversity	3		
BOT 3015L	Plant Diversity Lab	1		
OR				
ZOO 3021L	Animal Diversity Lab	1		
BSC 4434	Bioinformatics for Biologists	4		
OR				
MCB 4503	Virology	3		
PCB 4233C	Immunology	4		
PCB 4097	Human Physiology	3		
General Election	ve	1		
<u>AREA 3: SCIENCE EDUCATION (S5202/S9202) – 18 Credits Required</u>				

EDG 2311	Substitute Teacher Training	1
EDG 3321	General Teaching Skills	3
EDG 3443	Classroom Management	3
EDF 4430	Assessment in Education	3
EME 3430	Instructional Technology in Math/Science	2
RED 3013	Foundations of Reading Instructions	3
RED 3393	Differentiated Instruction in	-
	Content Reading	3
Upper Division Biological Science Elective		

Co-Req BSC 2426L Co-Reg BSC 2426
•
Pre-Req BSC 2426; Co-Req BSC 2427L
Pre-Req BSC 2426L; Co-Req BSC 2427
Pre-Req BCH 3023, BSC 2427, PCB 3060;
Co-Req BSC 4422L
Pre-Req BCH 3023L, BSC 2427L, PCB 3060L;
Co-Req BSC 4422L
Pre-Req MCB 3023, 3023L

Pre-Req BSC 2011/L, CHM 1046/L
Pre-Req BSC 2011/L, CHM 1046/L
Pre-Req BSC 2011/L, CHM 1046/L;
Co-Req BOT 3015
Pre-Req BSC 2011/L, CHM 1046/L;
Co-Req ZOO 3021
Pre-Req BSC 2010/L, 2011/L, 3060/L

Pre-Req BSC 3023/L Pre-Req MCB 3023, 3023L Pre-Req BCH 3023, 3023L, PCB 4024, PHY 2054/L **See General Electives Below**

Departmental Permission Required Pre-Req EDG 3321

Departmental Permission Required See General Electives Below

Course	Course Title	Credits	Pre-/Co-Requisites
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GENERAL ELECTIVES - 8-9 Credits Required

Students may use this elective block to complete the foreign language requirement. Those who have already completed this requirement may elect to take additional upper division science courses, the following courses or speak with an advisor to see additional approved course selection:

BOT 3015	Plant Diversity	3	Pre-Reg BSC 2011/L, CHM 1046/L
BOT 3015L	Plant Diversity Lab	1	Pre-Reg BSC 2011/L, CHM 1046/L;
DOT SUISE		1	Co-Reg BOT 3015
BSC 4422	Biotechnology	3	Pre-Reg BCH 3023, BSC 2427, PCB 3060;
D3C 4422	Biotechnology	5	•
	Distante statut de la	2	Co-Req BSC 4422L
BSC 4422L	Biotechnology Lab	2	Pre-Req BCH 3023L, BSC 2427L, PCB 3060L;
			Co-Req BSC 4422L
BSC 4434	Bioinformatics for Biologists	4	Pre-Req BSC 2010/L, 2011/L, 3060/L
BSC 4910	Senior Capstone Research Project	3	Pre-Req Completion of BS-BS Core Curriculum
			& Approval by BS-BS Faculty
MCB 4503	Virology	3	Pre-Reg BSC 3023/L
PCB 3043	Fundamentals of Ecology	3	Pre-Reg BSC 2011/L, CHM 1046/L
PCB 4097	Human Physiology	3	Pre-Reg BCH 3023, 3023L, PCB 4024,
100 1007		0	PHY 2054/L
PCB 4233C	Immunology	4	Pre-Reg MCB 3023, 3023L
PHI 3633	Bioethics	- -	THE REQ MED 3023, 3023E
		2	Dec Dec 2011/L CUM 1046/L
ZOO 3021	Animal Diversity	3	Pre-Req BSC 2011/L, CHM 1046/L
ZOO 3021L	Animal Diversity Lab	1	Pre-Req BSC 2011/L, CHM 1046/L;
			Co-Req ZOO 3021
Foreign Language Requirement		8	See Advisor for Appropriate Selection or
			Testing
			-

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.

Foreign Language Requirement: Students admitted to the baccalaureate degree program without meeting the foreign language admission requirement of 2 credits of sequential foreign language at the secondary level or the equivalent of such instruction (8-10 credit hours) at the postsecondary level must earn such credits prior to graduation.

Additional Information:

Students entering with an AS or AAS degree may have more than 24 elective credits and may need additional General Education credits to meet the 36 General Education credits required for the baccalaureate degree. Students entering with an AA degree may need additional electives to provide appropriate background for the baccalaureate program.

A minimum cumulative grade point average of 2.0 is required for graduation.

Students must successfully complete 30 semester hours of 3000-4000 level course work.

Students should check their individualized Degree Audit Report to determine the specific graduation policies in effect for their program of study for the year and term they entered Miami Dade. This outline includes current graduation requirements.

The final responsibility for meeting graduation requirements rests with the student.

4. <u>Testing</u>

Placement Criteria Document (2012-2013)

https://www.mdc.edu/ir/CPT_CLAST/Placement_Document_2012-2013_Draft.pdf

APPROVE_____OPPOSE_____MORE INFORMATION_____

Informational Items -

Testing Fees 2012-2013

ACCUPLACER (CPT) and PERT): Eliminate the July 1 start date for assessing a retesting fee to High school graduates. Effective with June 7, 2012 graduates: use the 1st day after the M-DCPS Last Day of School to begin charging a re-test fee to high school graduates.