July 18, 2014

MEMORANDUM

TO: Lenore Rodicio
FROM: Beverly Moore-Garcia

SUBJECT: CURRICULUM REPORT #110

All curriculum items included in this report were presented and discussed at the July 8, 2014, College CASSC meeting. However due to lack of quorum, all curriculum requiring approval were placed in motion to be distributed for electronic voting. Approval of curriculum items is for offering at all campuses and centers, all off campus sites, at Honors level and through Distance Education

Informational Items

1. School of Business
   Deletion of Programs
   - Program Title: Teller Operations – C.T.C. (55017)
     Administrator (s): Rafo Saldana/Ana Cruz
     Faculty:
   - Program Title: Business Administration – A.A.S. (A5086, A5087, A5088, A5089, A5090)/C.C.C. (65018, 65029, 65012, 65023, 65017, 65028, 65019, 65030)
     Administrator (s): Rafo Saldana/Cynthia Conteh
     Faculty:

2. Hospitality Management
   Program Deletion
   Program Title: Hospitality and Tourism Management – A.A.S. (A5096/A5095)
   Administrator (s): Billy Jones
   Faculty:

3. Radiography Technology
   Program Deletion
   Program Title: Radiography – A.A.S. (A3037/A3036/A3038)
   Administrator (s): Amy Pettigrew/Ken Lee
   Faculty: Merlin Zolfaghari

Curriculum Requiring Approval

4. School of Engineering Technology
   Program Modifications
   Program Title: Computer Programmer C.C.C. (66045)
   Administrator (s): Billy Jones/Diane King
   Faculty: Jack Lusby
Add New Courses

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP1120</td>
<td>Introduction to COBOL Programming</td>
</tr>
<tr>
<td>COP2129</td>
<td>Advanced COBOL Programming</td>
</tr>
</tbody>
</table>

5. School of Health Sciences

- Course Modifications
  - HIM1000  Introduction to Health Information Technology
  - HIM1110  Health Information Technology and Data Collection
  - HIM1110L Health Information Technology and Data Collection lab
  - HIM1800  Professional Practice Experience 1
  - HIM2211C Health Information Technologies
  - HIM2253C Current Procedural Terminology/CPT-4
  - HIM2400C Diversified Non-Hospital Health Records
  - HIM2472  Medical Terminology
  - HIM2500  Data Management & Quality Assessment
  - HIM2512C Supervision & Organization for Health Information Technology
  - HIM2810  Professional Practice Experience 2
  - HIM2820  Seminar and Professional Practice Experience 3

  Administrator (s): Amy Pettigrew/Debra Shannon
  Faculty: Mary Worsley

6. Fire and Environmental Science

Program Deletion

Program Title: Environmental Science Technology – A.S., All Tracks
  - Option 27021 – Conservation Ecology
  - Option 27022 – Environmental Science
  - Option 27023 – Assessment/Safety Compliance
  - Option 27024 – Watershed Management
  - Option 27025 – HAZMAT Technology

  Administrator (s): Jackie Peña/Mike McCann
  Faculty:
## Informational Items – No Voting Required

### 1. School of Business

<table>
<thead>
<tr>
<th>Program Deletion</th>
<th>Teller Operations (55017)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Title:</td>
<td>College Technical Certificate (C.T.C.)</td>
</tr>
<tr>
<td>Degree Type:</td>
<td>Fall 2014-1</td>
</tr>
<tr>
<td>Effective Term:</td>
<td>North, Wolfson, Kendall, Homestead, InterAmerican, Hialeah, MDC-West, Centers, all off campus sites, at Honors level and through Distance Education.</td>
</tr>
<tr>
<td>Affected Campus(es):</td>
<td>Rafo Saldana/Ana Cruz</td>
</tr>
<tr>
<td>Administrator(s):</td>
<td></td>
</tr>
<tr>
<td>Faculty:</td>
<td></td>
</tr>
</tbody>
</table>
**Program Sheet**

**Teller Operation (55017)**  
*Career Technical Certificate*  

Total contact hours required for the degree is **150**.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Contact Hours</th>
<th>Pre-/Co-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAN 0930</td>
<td>Banking for Tellers</td>
<td>45</td>
<td><em>(DELETE COURSE)</em></td>
</tr>
<tr>
<td>BRC 0109</td>
<td>Teller Training</td>
<td>105</td>
<td><em>(DELETE COURSE)</em></td>
</tr>
</tbody>
</table>

**Additional Information:**

A minimum cumulative grade point average of 2.0 is required for graduation *(Note: may be higher with appropriate rationale)*.

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.

**Program Changes**

1. **DELETE** the Teller Operation (55017) Career Technical Certificate (CTC)
2. The following courses will be **DELETED/REMOVED/END-TERMED** from Odyssey:
   - BAN 0930  Banking for Tellers
   - BRC 0109  Teller Training
Program Deletion

Program Title: Business Administration – A.A.S. (A5086, A5087, A5088, A5089, A5090)/ C.C.C. (65018, 65029, 65012, 65023, 65017, 65028, 65019, 65030)

Degree Type: Associate of Applied Science (A.A.S.)/College Credit Certificate (C.C.C.)

Effective Term: Fall 2014-1

Affected Campus(es): North, Wolfson, Kendall, Homestead, InterAmerican, Hialeah, MDC-West, Centers, all off campus sites, at Honors level and through Distance Education.

Administrator(s): Rafo Saldana/Cynthia Conteh

Faculty:
## I. GENERAL EDUCATION REQUIREMENTS

1. **COMMUNICATIONS** (3.00 credits)
   - ENG 1101 - English Composition 1 (3 credits)

2. **ORAL COMMUNICATIONS** (3.00 credits)
   - EN 1017 - Fundamentals of Speech Communication (3 credits)

3. **HUMANITIES** (3.00 credits)
   - PHI 2604 - Critical Thinking/Ethics (3 credits)

4. **SOCIAL ENVIRONMENT** (3.00 credits)
   - CLP 1006 - Psychology of Personal Effectiveness (3 credits)

5. **MATH/SCIENCE** (3.00 credits)
   - CHM 2100 - Basic Business Statistics (3 credits)
   - MTH 1103 - Business Mathematics (3 credits)

6. **COMPUTER COMPETENCY**
   - Test type(s) needed:
   - COS 1060 - Introduction to Microcomputer Usage (4 credits)

7. **MAJOR COURSE REQUIREMENTS** (29.00 credits)
   - Must take 3.0 credits from the following group:
     - ACO 2021 - Financial Accounting (3 credits)
     - ACO 2011 - Principles of Accounting 2 (3 credits)
   
   - Must take 3.0 credits from the following group:
     - BUS 2241 - Business Law 1 (3 credits)
     - BUS 2191 - Legal Environment (3 credits)

   - Must take 23.0 credits from the following group:
     - ACO 2024 - Microcomputers in Accounting (1.00 - 3.00 credits)
     - COS 1060 - Introduction to Microcomputer Usage (4 credits)
     - ECO 2013 - Principles of Economics (Macro) (3 credits)
DELETE PROGRAM
ASSOCIATE OF APPLIED SCIENCE
PROGRAM OF STUDY: BUSINESS ADMINISTRATION - INTERNATIONAL BUSINESS (A5086)
EFFECTIVE TERM: Summer 2013 (2012-3)

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. SOCIAL ENVIRONMENT (3.00 credits)
   - CLP 1006 - Psychology of Personal Effectiveness (3 credits)

5. MATH/SCIENCE (3.00 credits)
   - QMB 2100 - Basic Business Statistics (3 credits)
   - MTB 1102 - Business Mathematics (3 credits)

6. COMPUTER COMPETENCY
   Test type(s) needed: COS 1060 - Introduction to Microcomputer Usage (4 credits)

7. MAJOR COURSE REQUIREMENTS (29.00 credits)
   Must take 3.0 credits from the following group:
   - ACC 2021 - Financial Accounting (3 credits)
   - ACC 2011 - Principles of Accounting 2 (3 credits)

   Must take 3.0 credits from the following group:
   - BU 2341 - Business Law 1 (3 credits)
   - BUS 2101 - Legal Environment (3 credits)

   Must take 3.0 credits from the following group:
   - ACC 2021 - Financial Accounting Lab (1 credits)
   - ACC 2450 - Microcomputers in Accounting (1.00 - 3.00 credits)
   - COS 1060 - Introduction to Microcomputer Usage (4 credits)
   - ECO 2013 - Principles of Economics (Macro) (3 credits)

   Must take 3.00 credits from the following group:
   - DMR 1011 - Principles of Business (3 credits)
   - MAR 2011 - Principles of Management (3 credits)
   - MAR 1011 - Principles of Marketing (3 credits)
   - OIS 2332 - Business Writing (3 credits)
ASSOCIATE OF APPLIED SCIENCE
PROGRAM OF STUDY: BUSINESS ADMINISTRATION - MARKETING (AS088)
EFFECTIVE TERM: Summer 2013 (2012-3)

I. GENERAL EDUCATION REQUIREMENTS

1. COMMUNICATIONS (3.00 credits)
   - ENC 1101 - English Composition 1 (3 credits)

2. ORAL COMMUNICATIONS (3.00 credits)
   - SPE 1017 - Fundamentals of Speech Communication (3 credits)

3. HUMANITIES (3.00 credits)
   - PHI 2604 - Critical Thinking/Ethics (3 credits)

4. SOCIAL ENVIRONMENT (3.00 credits)
   - CIP 1006 - Psychology of Personal Effectiveness (3 credits)

5. MATH/SCIENCE (3.00 credits)
   - QMR 2100 - Basic Business Statistics (3 credits)
   - MTH 1102 - Business Mathematics (3 credits)

6. COMPUTER COMPETENCY
   - GST 1060 - Introduction to Microcomputer Usage (4 credits)

7. MAJOR COURSE REQUIREMENTS (29.00 credits)

   Must take 3.0 credits from the following group.
   - ACR 2021 - Financial Accounting (3 credits)
   - ACR 2011 - Principles of Accounting 2 (3 credits)

   Must take 3.0 credits from the following group.
   - BUL 2241 - Business Law 1 (3 credits)
   - BUL 2131 - Legal Environment (3 credits)

   Must take 23.0 credits from the following group.
   - ACR 2450 - Microcomputers in Accounting (1.00 - 3.00 credits)
   - GST 2050 - Introduction to Microcomputer Usage (4 credits)
   - ECO 2013 - Principles of Economics (Macro) (3 credits)
ASSOCIATE OF APPLIED SCIENCE
PROGRAM OF STUDY: BUSINESS ADMINISTRATION - NON-PROFIT MANAGEMENT (A5089)
EFFECTIVE TERM: Summer 2013 (2012-3)

I. GENERAL EDUCATION REQUIREMENTS

1. COMMUNICATIONS (3.00 credits)
   - [ ] ENG 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. SOCIAL ENVIRONMENT (3.00 credits)
   - [ ] CIP 1006 - Psychology of Personal Effectiveness (3 credits)

5. MATH/SCIENCE (3.00 credits)
   - [ ] QMB 2100 - Basic Business Statistics (3 credits)
   - [ ] MTH 1103 - Business Mathematics (3 credits)

6. COMPUTER COMPETENCY
   Test type(s) needed:
     - [ ] CIS 1060 - Introduction to Microcomputer Usage (4 credits)

7. MAJOR COURSE REQUIREMENTS (29.00 credits)
   Must take 3.0 credits from the following group:
     - [ ] ACG 2021 - Financial Accounting (3 credits)
     - [ ] ACG 2011 - Principles of Accounting 2 (3 credits)
     - [ ] ACG 2012 - Principles of Economics (Macro) (2 credits)

   Must take 3.0 credits from the following group:
     - [ ] BUL 2241 - Business Law 1 (3 credits)
     - [ ] BUL 2131 - Legal Environment (3 credits)

   Must take 23.0 credits from the following group:
     - [ ] ACG 2470 - Microcomputers in Accounting (1.00 - 3.00 credits)
     - [ ] CSE 1060 - Introduction to Microcomputer Usage (4 credits)
     - [ ] ACG 1011 - Principles of Business (3 credits)
     - [ ] MAN 2021 - Principles of Management (3 credits)
     - [ ] MAR 1011 - Principles of Marketing (3 credits)
     - [ ] GST 2335 - Business Writing (3 credits)
ASSOCIATE OF APPLIED SCIENCE
PROGRAM OF STUDY: BUSINESS ADMINISTRATION - REAL ESTATE (A5090)
EFFECTIVE TERM: Summer 2013 (2012-3)

I. GENERAL EDUCATION REQUIREMENTS

1. COMMUNICATIONS (3.00 credits)
   - ENC 1101 - English Composition I (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. SOCIAL ENVIRONMENT (3.00 credits)
   - CLP 1006 - Psychology of Personal Effectiveness (3 credits)

5. MATH/SCIENCE (3.00 credits)
   - OMB 2100 - Basic Business Statistics (3 credits)
   - MTR 1103 - Business Mathematics (3 credits)

6. COMPUTER COMPETENCY
   Test type(s) needed:
   - CSG 1060 - Introduction to Microcomputer Usage (4 credits)

7. MAJOR COURSE REQUIREMENTS (29.00 credits)
   Must take 3.0 credits from the following group.
   - ACG 2021 - Financial Accounting (3 credits)
   - ACG 2011 - Principles of Accounting 2 (3 credits)

   Must take 3.0 credits from the following group.
   - BUS 2241 - Business Law I (3 credits)
   - BUS 2131 - Legal Environment (3 credits)

   Must take 23.0 credits from the following group.
   - ACG 2021L - Financial Accounting Lab (1 credits)
   - ACG 2450 - Microcomputers in Accounting (1.00 - 1.00 credits)
   - CSG 1060 - Introduction to Microcomputer Usage (4 credits)
   - CCO 2013 - Principles of Economics (Macro) (3


2/28/2013
### 2. Hospitality Management

**Program Deletion**

<table>
<thead>
<tr>
<th>Program Title:</th>
<th>Hospitality and Tourism Management (A5096/A5095)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree Type:</td>
<td>Associate of Applied Science (A.A.S.)</td>
</tr>
<tr>
<td>Effective Term:</td>
<td>Fall 2014-1</td>
</tr>
<tr>
<td>Affected Campus (es):</td>
<td>North, Wolfson, Kendall, Homestead, InterAmerican, Hialeah, MDC-West, Centers, all off campus sites, at Honors level and through Distance Education.</td>
</tr>
</tbody>
</table>

**Administrator (s):** Billy Jones

**Faculty:**
College CASSC Meeting - Tuesday, July 8, 2014  
Curriculum Report # 110

HOSPITALITY & TOURISM MANAGEMENT – FOOD SERVICE MANAGEMENT  (A5096)  
ASSOCIATE IN APPLIED SCIENCE  
C.I.P. (0252000100)

Total credits required for the degree is 64.

The Hospitality and Tourism Management program provides professional preparation for a career in the hospitality industry. Hospitality management is presented as a core curriculum with emphasis on hotel management specialization, a restaurant/food service management specialization and a cruise line management specialization. An internship program is required to provide practical experience in the field of the student’s choice. To transfer to a four-year institution, please see the Hospitality and Tourism Management Associate in Science degree requirements or your program advisor. This A.A.S. does not transfer to a four-year institution.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-/Co-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LOWER DIVISION REQUIREMENTS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education</td>
<td></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Communications – 3 Credits Required</td>
<td>ENC 1101 English Composition 1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Oral Communication – 3 Credits Required</td>
<td>SPC 1017 Fundamentals of Speech Communications</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities – 3 Credits Required</td>
<td>PHI 2604 Critical Thinking &amp; Ethic</td>
<td>3</td>
<td>Pre-requisite: ENC 1101</td>
</tr>
<tr>
<td>Social/Behavioral Science – 3 Credits Required</td>
<td>CLP 1006 The Psychology of Personal Effectiveness</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics – 2 Credits Required</td>
<td>QMB 2100 Basic Business Statistics</td>
<td>3</td>
<td>Co-requisite: QMB 2100L</td>
</tr>
<tr>
<td></td>
<td>MTB 1103 Business Mathematics</td>
<td>3</td>
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<tr>
<td>Computer Science</td>
<td>CGS 1069 Introduction to Microcomputer Usage**</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**This course must be satisfied for completion of the Associate in Science Degree. Course satisfaction can be accomplished through examination or by successful class attendance in the course.

**Major Course Requirements – 28 Credits**

- **Must take 3 credits from the following group:**
  - ACG 2021 Financial Accounting
  - ACG 2011 Principles of Accounting 2

- **AND**

- **Must take 1 credit from the following group:**
  - ACG 2021L Financial Accounting Lab
  - ACG 2011L Principles of Accounting 2 Lab

- **AND**

- **Must take 3 credits from the following group:**
  - HFT 2506 Marketing of Hospitality Services
  - MAR 1011 Principles of Marketing

- **AND**

- **Must take 3 credits from the following group:**
  - MNA 1345 Effective Supervision

- **AND**

- **Must take 18 credits from the following group:**
  - ECO 2013 Principles of Economics (Macro)
  - HFT 1000 Introduction to Hospitality
  - HFT 1212 Safety and Sanitation
  - HFT 1949 Co-op Work-study Internships I
  - MAN 2300 Human Resources Management
<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-/Co-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKA 1161</td>
<td>Introduction to Customer Service</td>
<td>3</td>
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</tbody>
</table>

**Area Specialization – 15 Credits Required**

**Must take 3.0 credits from the following group.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-/Co-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 2261</td>
<td>Restaurant Management</td>
<td>3</td>
<td>Prerequisite: HFT 1000</td>
</tr>
<tr>
<td>HFT 2750</td>
<td>Event and Meeting Management</td>
<td>3</td>
<td></td>
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</tbody>
</table>

**Must take 12.0 credits from the following group.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-/Co-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 1841</td>
<td>Dining Room Service</td>
<td>3</td>
<td>Co-requisite: HFT 1000</td>
</tr>
<tr>
<td>HFT 1841L</td>
<td>Dining Room Service Laboratory</td>
<td>1</td>
<td>Co-requisite: HFT 1041</td>
</tr>
<tr>
<td>HFT 1441</td>
<td>Point of Service</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>HFT 1611</td>
<td>Responsible Beverage Vendor</td>
<td>1</td>
<td>Prerequisite: HFT 1000</td>
</tr>
<tr>
<td>HFT 1852</td>
<td>Menu and Facilities Planning</td>
<td>3</td>
<td>Co-requisite: HFT 1000</td>
</tr>
<tr>
<td>HFT 2806</td>
<td>Food and Beverage Management</td>
<td>3</td>
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</table>

**Electives – 6 Credits Required**

<table>
<thead>
<tr>
<th>ACG*</th>
<th>GEB*</th>
<th>MAR*</th>
<th>SBM*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUL*</td>
<td>HFT*</td>
<td>MNA*</td>
<td>TAX*</td>
</tr>
<tr>
<td>ECO*</td>
<td>MAC*</td>
<td>OST*</td>
<td></td>
</tr>
<tr>
<td>FIN*</td>
<td>MAN*</td>
<td>PUR*</td>
<td></td>
</tr>
</tbody>
</table>

**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.

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.
3. Radiography Technology

**Program Deletion**

**Program Title:** Radiography (A3037/A3036/A3038)

**Degree Type:** Associate of Applied Science (A.A.S.)

**Effective Term:** Fall 2014-1

**Affected Campus(es):** North, Wolfson, Kendall, Homestead, InterAmerican, Hialeah, MDC-West, Centers, all off campus sites, at Honors level and through Distance Education.

**Administrator(s):** Amy Pettigrew/Ken Lee

**Faculty:** Merlin Zolfghari
RADIOGRAPHY A3037/ A3036 /A3038
ASSOCIATE IN APPLIED SCIENCE

C.I.P. (0351090700)

Total credits required for the degree is 77.

A radiographer, also known as a Radiologic Technologist, is responsible for producing radiographs as prescribed by a physician. In order to successfully produce a radiograph, the radiographer must position the patient between the image receptor and the x-ray tube, select the proper amount of radiation, and then energize the x-ray tube. Radiographic image processing and evaluation, radiation protection, and basic patient assessment are within the scope of practice of a radiographer.

### LOWER DIVISION REQUIREMENTS

**General Education**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 English Composition 1</td>
<td>3</td>
</tr>
</tbody>
</table>

**Communications – 6 Credits Required**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SPC 1017 Fundamentals of Speech Communications</td>
<td>3</td>
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</table>

**Oral Communication – 3 Credits Required**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHI 2604 Critical Thinking &amp; Ethic</td>
<td>3</td>
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</table>

**Humanities – 3 Credits Required**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLP 1006 The Psychology of Personal Effectiveness</td>
<td>3</td>
</tr>
</tbody>
</table>

**Social/Behavioral Science – 3 Credits Required**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1105 College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mathematics – 3 Credits Required**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTE 1000 Introduction to Radiography Technology 2</td>
<td>2</td>
</tr>
<tr>
<td>RTE 1613 Radiology Physics</td>
<td>2</td>
</tr>
<tr>
<td>RTE 1503 Radiographic Positioning 1</td>
<td>3</td>
</tr>
<tr>
<td>RTE 1503L Radiology Positioning 1 lab</td>
<td>1</td>
</tr>
<tr>
<td>RTE 1804 Radiology Clinical 1</td>
<td>5</td>
</tr>
<tr>
<td>RTE 1513 Radiology Positioning 2</td>
<td>3</td>
</tr>
<tr>
<td>RTE 1513L Radiology Positioning 2 lab</td>
<td>1</td>
</tr>
<tr>
<td>RTE 1418 Radiology Technique 1</td>
<td>3</td>
</tr>
<tr>
<td>RTE 1814 Radiographic Clinical 2</td>
<td>5</td>
</tr>
<tr>
<td>RTE 1824 Radiographic Clinical 3</td>
<td>5</td>
</tr>
<tr>
<td>RTE 2457 Radiologic Technology 2</td>
<td>3</td>
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<tr>
<td>RTE 2563 Radiographic Positioning 3</td>
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<tr>
<td>RTE 2834 Radiographic Clinical 4</td>
<td>5</td>
</tr>
<tr>
<td>RTE 2385 Radiation Biology</td>
<td>2</td>
</tr>
<tr>
<td>RTE 2844 Radiographic Clinical 5</td>
<td>8</td>
</tr>
<tr>
<td>RTE 2010 New Imaging Modalities in Radiology</td>
<td>1</td>
</tr>
<tr>
<td>RTE 2854 Radiographic Clinical 6</td>
<td>3</td>
</tr>
</tbody>
</table>

**Computer Science**

CGS 1060 Introduction to Microcomputer Usage** - This course must be satisfied for completion of the Associate in Science Degree. Course satisfaction can be accomplished through examination or by successful class attendance in the course.

**Discipline Content Core – 62 Credits Required**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Pre-/Co-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2085 Human Anatomy &amp; Physiology 1</td>
<td>3</td>
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<tr>
<td>BSC 208S5L Human Anatomy &amp; Physiology 1</td>
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<td>Pre/Co-Req BSC 2085L</td>
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<td>BSC 2086 Human Anatomy &amp; Physiology 1</td>
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<tr>
<td>RTE 1000 Introduction to Radiography Technology 2</td>
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<tr>
<td>RTE 1613 Radiology Physics</td>
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<tr>
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<td>3</td>
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<td>RTE 1513 Radiology Positioning 2</td>
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<td>RTE 1418 Radiology Technique 1</td>
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<tr>
<td>RTE 2010 New Imaging Modalities in Radiology</td>
<td>1</td>
<td>Pre/Co-Req RTE 2010</td>
</tr>
<tr>
<td>RTE 2854 Radiographic Clinical 6</td>
<td>3</td>
<td>Pre/Co-Req RTE 2854</td>
</tr>
</tbody>
</table>

**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.

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.

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.
Curriculum Requiring Approval

4. School of Engineering Technology
Program Modifications

Program Title: Computer Programmer (66045)
Degree Type: College Credit Certificate (C.C.C.)
Effective Term: Spring 2014-2
Affected Campus(es): North, Wolfson, Kendall, Homestead, InterAmerican, Hialeah, MDC-West, Centers, all off campus sites, at Honors level and through Distance Education.

Administrator(s): Billy Jones/Diane King
Faculty: Jack Lusby

Motion: Approve to add existing course ACG2021 and program options – Business Applications and Mobile Applications Development.

Add New Courses

Administrator(s): Billy Jones/Diane King
Faculty: Jack Lusby

Motion: Approve two new courses and associated fees to meet the demands for programmers proficient in the COBOL language to support mission-critical, legacy applications.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Campus</th>
<th>Eff. Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP1120</td>
<td>Introduction to COBOL Programming</td>
<td>4</td>
<td>1, 2, 3, 5, 6, 7/Ctr.</td>
<td>2014-2</td>
</tr>
</tbody>
</table>

Course Description: This is an introductory course in COBOL programming recommended for students majoring in Information Technology and Computer Information Systems. Students will learn how to design, code, compile, and execute structured programs for business applications. Recommended preparation: CGS1060 or experience working with computers and knowledge of elementary algebra. Laboratory fee. (3 hr. lecture 2 hr. lab) Pre/Co-requisites: CGS1060.

Curriculum Action Rationale: Responding to industry demand for programmers proficient in the COBOL language to support mission-critical, legacy applications. Industry demand due to retirements of an aging workforce.

Proposed Fee: $63.00
Rationale/Justification: Course requires laboratory personnel, materials, equipment, software licenses and consumables.
<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Campus</th>
<th>Eff. Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP2129</td>
<td>Advanced COBOL Programming</td>
<td>4</td>
<td>1, 2, 3, 5, 6, 7/Ctr.</td>
<td>2014-2</td>
</tr>
</tbody>
</table>

**Course Description:** This is a second level course in COBOL programming recommended for Information Technology and Computer Information Systems majors. Students will learn advanced techniques of structured programming. Emphasis will be on design and execution of structured programming using various access methods. (3 hr. lecture 2 hr. lab) Pre-requisites: COP1120.

**Curriculum Action Rationale:** Responding to industry demand for programmers proficient in the COBOL language to support mission-critical, legacy applications. Industry demand due to retirements of an aging workforce.

**Proposed Fee:** $63.00

**Rationale/Justification:** Course requires laboratory personnel, materials, equipment, software licenses and consumables.
**ATTACHMENT 1 – COMPUTER PROGRAMMER (PROPOSED)**

**COLLEGE CREDIT CERTIFICATE**

**PROGRAM OF STUDY: COMPUTER PROGRAMMER (66045)**

**EFFECTIVE TERM: Fall 2014 (2014-1)**

**MAJOR COURSE REQUIREMENTS (20.00 credits)**
- CGS 1060 - Introduction to Microcomputer Usage (4 credits)
- CGS 1540 - Database Concepts Design (4 credits) Pre-req CGS1060
- CIS 1321 - Introduction to Systems Analysis and Design (4 credits) Pre-req CGS1060
- COP 1334 - Introduction to C++ Programming (4 credits) Pre/co-req CGS1060
- COP 2800 - Java Programming (4 credits) Pre-req COP1334

**CERTIFICATE OPTIONS – CHOOSE ONE**

**OPTION A. BUSINESS APPLICATIONS (16 CREDITS) - 66033**

**Certificate Core Required (8 Credits)**
- ACG2021 Financial Accounting (3 credits) Co-req ACG2021L
- ACG2012L Financial Accounting Lab (1 credit) Co-req ACG2021
- COP1332 Introduction to Visual Basic Programming (4 credits) Pre/co-req CGS1060

**Option “A” Electives**

*Must take 8.0 credits from the following group:*
- CIS 2322 Systems Analysis Design and Implementation (4 credits)
- COP 2333 Advanced Programming Concepts using Visual Basic (4 credits) Pre-req COP1332
- COP2335 Object Oriented Programming using C++ (4 credits) Pre-req COP1334
- COP 2805 Advanced Java Programming (4 credits) Pre-req COP2800
- COP 2842 Developing Websites using PHP/MYSQL (4 credits)

**OPTION B: MOBILE APPLICATIONS DEVELOPMENT OPTION (16 CREDITS) - 66036**

**Certificate Core Required (16 Credits)**
- COP 2660 Android Application 1 (4 credits) Pre-req COP1334
- COP 2662 Android Application 2 (4 credits) Pre-req COP2660, COP2800
- COP 2654 iPhone App Development 1 (4 credits) Pre-req COP1332 or COP1334
- COP 2658 iPhone App Development 2 (4 credits) Pre-req COP2654
5. School of Health Sciences

- Health Information Technology, A.S. – Course Modifications

  Effective Term: Spring 2014-2
  Affected Campus: Medical

  Administrator(s): Amy Pettigrew/Debra Shannon
  Faculty: Mary Worsley

  Motion: Approve 12 revised health information technology courses that include: descriptions (changed to SLO format) and associated Learning Outcomes and course titles updates to reflect the name change from “Management” to “Technology

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Campus</th>
<th>Eff. Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM1000</td>
<td>Introduction to Health Information Technology</td>
<td>2</td>
<td>4</td>
<td>2014-2</td>
</tr>
</tbody>
</table>

  **Course Description:** This course examines the role and functions of a health information technician. Students will learn about the structure, organization, and maintenance of the medical record. Students will also learn about the organization and function of various types of health care facilities, the responsibilities of national, state and local health agencies, and the organization and mission of the American Health Information Management Association. (2 hr. lecture)

  **Curriculum Action Rationale:** Updates to course description and competencies to reflect current curriculum practices.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Campus</th>
<th>Eff. Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM1110</td>
<td>Health Information Technology &amp; Data Collection</td>
<td>2</td>
<td>4</td>
<td>2014-2</td>
</tr>
</tbody>
</table>

  **Course Description:** This course is designed to provide the skills necessary to function in a health information management department. Students will learn health record data collection and informatics. Students will also learn about the various components and approaches of the electronic health record. Prerequisite: HIM 1000, 2472; corequisite: HIM 1110L. (2 hr. lecture)

  **Curriculum Action Rationale:** Course updates to include Learning Outcomes.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Campus</th>
<th>Eff. Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM1110L</td>
<td>Health Information Technology &amp; Data Collection Lab</td>
<td>3</td>
<td>4</td>
<td>2014-2</td>
</tr>
</tbody>
</table>

  **Course Description:** This course is designed to apply basic requirements imposed by regulatory agencies to health record data. Students will learn how clinical data repositories store health information. Students will also learn the concepts relating to confidentiality, ethics, and release of information. Prerequisite: HIM 1000, 2472; corequisite HIM 1110. (6 hr. lab)

  **Curriculum Action Rationale:** Course updates to Learning Outcomes.
### Course Description:
The course will provide the student with a supervised professional practice experience in a health care setting, utilizing electronic health records and reports to manage health information data. Students will learn an in-depth knowledge of applying the minimum basic requirements for handling records imposed by regulatory agencies. Prerequisite: HIM 1000; corequisite: HIM 1110, 1110L.

### Curriculum Action Rationale:
Course updates to Learning Outcomes.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Campus</th>
<th>Eff. Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM1800</td>
<td>Professional Practice Experience 1</td>
<td>2</td>
<td>4</td>
<td>2014-2</td>
</tr>
</tbody>
</table>

**Course Description:** This course will provide the student with a supervised professional practice experience in a health care setting, utilizing electronic health records and reports to manage health information data. Students will learn an in-depth knowledge of applying the minimum basic requirements for handling records imposed by regulatory agencies. Prerequisite: HIM 1000; corequisite: HIM 1110, 1110L.

### Curriculum Action Rationale:
Course updates to Learning Outcomes.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Campus</th>
<th>Eff. Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM2211C</td>
<td>Health Information Technologies</td>
<td>2</td>
<td>4</td>
<td>2014-2</td>
</tr>
</tbody>
</table>

**Course Description:** This course is designed to examine computer technology used to collect and store health information. The student will learn a variety of applications used to maintain and secure health care data. Prerequisites: HIM 1110, 1110L, 1800. (1 hr. lab)

### Curriculum Action Rationale:
Course updates to Learning Outcomes.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Campus</th>
<th>Eff. Term</th>
</tr>
</thead>
</table>

**Course Description:** This course provides an in-depth knowledge of coding and reporting using Current Procedural Terminology classification. Students will learn to read and interpret ambulatory health record documentation to classify and assign services and procedure codes, use encoder and grouper software, HCPCS, APCs, and RBRVS. Prerequisites: BSC 2085, 2085L and HIM 2472. (2 hr. lecture)

### Curriculum Action Rationale:
Course updates to Learning Outcomes.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Campus</th>
<th>Eff. Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM2400C</td>
<td>Diversified Non-Hospital Health Records</td>
<td>2</td>
<td>4</td>
<td>2014-2</td>
</tr>
</tbody>
</table>

**Course Description:** This course emphasizes the importance of quality record-keeping practices, data flow, and management of health information systems in a non-acute care setting. The student will learn the documentation requirements based on Federal and State statutes, accreditation standards, Medicare Conditions of Participation, payment systems, funding, Health Insurance Portability Accountability Act, and the evolution of the electronic health record. Prerequisites: HIM 1110, 1110L, 1800. (2 hr. lecture)

### Curriculum Action Rationale:
Course updates to Learning Outcomes.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Campus</th>
<th>Eff. Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM2472</td>
<td>Medical Terminology</td>
<td>3</td>
<td>4</td>
<td>2014-2</td>
</tr>
</tbody>
</table>

**Course Description:** This course provides an analysis of medical terms. Students will learn the basic roots, prefixes and suffixes necessary to have a working knowledge of the language of medicine. Prerequisite: Department permission. (3 hr. lecture)

### Curriculum Action Rationale:
Updates to course description (SLO FORMAT ONLY) and course competencies (Learning Outcomes inclusion).
### Course Description:

**Course Description:** This course examines the basic principles of quality assessment, quality improvement and utilization review. Students will learn about the accreditation process, risk management, managed care models, and the methodologies and relationships of these key areas within a health care facility. Prerequisites: HIM 1110, 1110L, 2211C. Corequisite: HIM 2500L. (2 hr. lecture)

**Curriculum Action Rationale:** Updates to course description (SLO FORMAT ONLY) and course competencies (Learning Outcomes inclusion).

### Course Description:

**Course Description:** This course examines the basic principles of management and organizational life in a health information management department and the interrelationships within the healthcare organization. Students will learn about the supervisory role of the health information professional, including basic motivation and communication principles essential to the practice of health information management. Students will also learn how to identify and use specific motivational and communication techniques in health information supervision. Prerequisites: HIM 1800 (1 hr. lecture 2 hr. lab)

**Curriculum Action Rationale:** Updates to course description (SLO FORMAT ONLY) and course competencies (Learning Outcomes inclusion).

### Course Description:

**Course Description:** This course is a supervised professional practice experience in a health care setting utilizing health records and reports to perform medical coding functions. Students will learn to assign Medicare Severity-Diagnosis Related Groups/Ambulatory Payment Classifications using the organization's information systems, encoder and grouper software. Students will also learn about the process for sequencing International Classification of Disease (ICD) and Current Procedural Terminology (CPT) coding systems. Prerequisite: HIM 2222, 2222L; corequisite: HIM 2234, 2234L. (6 hr. lecture)

**Curriculum Action Rationale:** Course updates to Learning Outcomes.

### Course Description:

**Course Description:** This course is designed to provide students with structured learning experiences necessary for them to enter the health information management field. Students will learn preparation skills for the national examination by analyzing major examination topics offered in the curriculum. A professional practice experience will be a component of this course. Prerequisite: HIM 2810; corequisites: HIM 2500, 2500L. (6 hr. lecture)

**Curriculum Action Rationale:** Course updates to Learning Outcomes. No other changes requested.
## Summary

### Health Information Management Program - Changes to Course Descriptions and Course Competencies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM 1000</td>
<td>Introduction to Health Information Management</td>
<td>Course description updated to reflect SLO format; revised competencies to reflect Learning Outcomes</td>
</tr>
<tr>
<td>HIM 1110</td>
<td>Health Information Management &amp; Data Collection</td>
<td>Course description updated to reflect SLO format; revised competencies to reflect Learning Outcomes</td>
</tr>
<tr>
<td>HIM 1110L</td>
<td>Health Information Management &amp; Data Collection Laboratory</td>
<td>Course description updated to reflect SLO format; revised competencies to reflect Learning Outcomes</td>
</tr>
<tr>
<td>HIM 1800</td>
<td>Professional Practice Experience 1</td>
<td>Course description updated to reflect SLO format; revised competencies to reflect Learning Outcomes</td>
</tr>
<tr>
<td>HIM 2211C</td>
<td>Health Information Technologies</td>
<td>Course description updated to reflect SLO format; revised competencies to reflect Learning Outcomes</td>
</tr>
<tr>
<td>HIM 2253C</td>
<td>Current Procedural Terminology Coding</td>
<td>Course description updated to reflect SLO format; revised competencies to reflect Learning Outcomes</td>
</tr>
<tr>
<td>HIM 2400C</td>
<td>Division of Non-Hospital Health Records</td>
<td>Course description updated to reflect SLO format; revised competencies to reflect Learning Outcomes</td>
</tr>
<tr>
<td>HIM 2472</td>
<td>Medical Terminology</td>
<td>Course description updated to reflect SLO format; revised competencies to reflect Learning Outcomes</td>
</tr>
<tr>
<td>HIM 2500</td>
<td>Data Management &amp; Quality Assessment</td>
<td>Course description updated to reflect SLO format; revised competencies to reflect Learning Outcomes</td>
</tr>
<tr>
<td>HIM 2512C</td>
<td>Supervision &amp; Organization for Health Information Management</td>
<td>Course description updated to reflect SLO format; revised competencies to reflect Learning Outcomes</td>
</tr>
<tr>
<td>HIM 2810</td>
<td>Professional Practice Experience 2</td>
<td>Course description updated to reflect SLO format; revised competencies to reflect Learning Outcomes</td>
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<tr>
<td>HIM 2820</td>
<td>Seminar and Professional Practice Experience 3</td>
<td>Course description updated to reflect SLO format; revised competencies to reflect Learning Outcomes</td>
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</tr>
<tr>
<td>HIM 1110 Health Information Management &amp; Data Collection</td>
<td>Change course title to Health Information Technology &amp; Data Collection</td>
<td></td>
</tr>
<tr>
<td>HIM 1110 L Health Information Management &amp; Data Collection Laboratory</td>
<td>Change course title to Health Information Technology &amp; Data Collection Laboratory</td>
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</tr>
<tr>
<td>HIM 2512C Supervision &amp; Organization for Health Information Management</td>
<td>Change course title to Supervision &amp; Organization for Health Information Technology</td>
<td></td>
</tr>
</tbody>
</table>

Summary

Health Information Management Program - Changes to Course Titles (from “Management” to “Technology.”)
6. Fire and Environmental Science

Program Deletion

**Program Title:** Environmental Science Technology – All Tracks
- Option 27021 – Conservation Ecology
- Option 27022 – Environmental Science
- Option 27023 – Assessment/Safety Compliance
- Option 27024 – Watershed Management
- Option 27025 – HAZMAT Technology

**Degree Type:** Associate of Science (A.S.)

**Effective Term:** Fall 2014-1

**Affected Campus (es):** North, Wolfson, Kendall, Homestead, InterAmerican, Hialeah, MDC-West, Centers, all off campus sites, at Honors level and through Distance Education.

**Curriculum Action Rationale:** Due to industry trends, given the condition of the market and low enrollment, permission is being requested to delete the multiple tracks in the Environmental Science Technology degree.

**Motion:** Approve deletion of A.S. in Environmental Science Technology including all track options and associated courses with the exception of EVR1001 – Introduction to Environmental Sciences as it is part of the A.A. 24 hr. elective block.

**Administrator (s):** Jackie Peña/Mike McCann

**Faculty:**
Program Changes

1. **DELETE** the AS in Environmental Sciences including track options.
   - Option 27021 – Conservation Ecology
   - Option 27022 – Environmental Science
   - Option 27023 – Assessment/Safety Compliance
   - Option 27024 – Watershed Management
   - Option 27025 – HAZMAT Technology

2. The following courses will be **DELETED/REMOVED(END-TERMED)** from odyssey:
   - EVR 1010  Environmental Compliance
   - EVR 1015  Hazardous Materials and the Environment
   - EVR 1030  Soil and Ground Water Monitoring
   - EVR 1190  Environmental Sampling Procedures
   - EVR 1262  Introduction to Ecology & Urban Industrial Pollutants
   - EVR 1633  Hazardous Materials Emergency Response 1
   - EVR 1640  Hazardous Materials Regulations 1
   - EVR 1802  Industrial Processes
   - EVR 1895  Environmental Pollutants
   - EVR 1930  Environmental Seminar
   - EVR 2613  Hazardous Materials Emergency Response 2
   - EVR 2625  Infectious and Nuclear Materials
   - EVR 2630  Hazardous Materials Risk Analysis
   - EVR 2647  Environmental Site Assessment
   - EVR 2680  Hazardous Materials Packing & Shipping
   - EVR 2805  Hazardous Materials Health Effects
   - EVR 2820  Hazardous Materials Corporate Program Development
   - EVR 2840  Hazardous Materials Emergency Response 3

3. The following EVR course will be **RETAINED** and is part of the A.A. 24 hr. Elective Block:
   - EVR 1001  Introduction to Environmental Sciences

4. **Note:** All courses not beginning with the EVR prefix are to be **RETAINED**. Those courses are part of the A.A. degree pathway.
College CASSC Meeting - Tuesday, July 8, 2014  
Curriculum Report # 110

Environmental Science  
Associate in Science

Total credits required for the degree is 64.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-/Co-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Education:</strong></td>
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<td></td>
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</tr>
<tr>
<td>Communications – 3 Credits Required</td>
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<td></td>
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<tr>
<td>ENC 1101</td>
<td>English Composition 1</td>
<td>3</td>
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<tr>
<td>Oral Communication – 3 Credits Required</td>
<td></td>
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<tr>
<td>SPC 1017</td>
<td>Fundamentals of Speech Communications</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities – 3 Credits Required</td>
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<td></td>
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<tr>
<td>PHI 2604</td>
<td>Critical Thinking/Ethics</td>
<td>3</td>
<td>Pre-Req ENC 1101</td>
</tr>
<tr>
<td>Behavioral and Social Science – 3 Credits Required</td>
<td></td>
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<tr>
<td>CLP 1006</td>
<td>Psychology of Personal Effectiveness</td>
<td>3</td>
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<td>Mathematics/Natural Science – 3 Credits Required</td>
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<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
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<td>Pre-Req MAT 1033 or Appropriate Testing</td>
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<td><strong>Computer Competency</strong></td>
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<td>Or:</td>
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<tr>
<td>CGS 1060</td>
<td>Introduction to Microcomputer Usage</td>
<td>4</td>
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<td><strong>MAJOR CORE REQUIREMENTS – 28 Credits Required</strong></td>
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<td>ECO 2023</td>
<td>Principles of Economics (Micro)</td>
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<tr>
<td>GEB 1011</td>
<td>Principles of Business</td>
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<td>MAN 2021</td>
<td>Principles of Management</td>
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<td>CGS 1060</td>
<td>Introduction to Microcomputer Usage</td>
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<td>CHM 1025</td>
<td>Introductory Chemistry</td>
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<td>CHM 1025L</td>
<td>Introductory Chemistry Lab</td>
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<td>ENC 1210</td>
<td>Technical Writing</td>
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<tr>
<td>EVR 1001</td>
<td>Introduction to Environmental Sciences</td>
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<td><em>(RETAINT, COURSE USED IN AA ELECTIVE BLOCK)</em></td>
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<tr>
<td>EVR 1100</td>
<td>Environmental Sampling Procedures</td>
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<td>EVR 1930</td>
<td>Environmental Seminar</td>
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<td>GLY 1010</td>
<td>Physical Geology</td>
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<tr>
<td>MAC 1114</td>
<td>Trigonometry</td>
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**Program Core Requirements**

Option 27021 – Conservation Ecology-21 Credits  
Must take 3.0 credits from the following group.  

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-/Co-Requisites</th>
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<tbody>
<tr>
<td>BSC 2250</td>
<td>Natural History of South Florida</td>
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<tr>
<td>EVR 1015</td>
<td>Hazardous Materials and the Environment</td>
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<tr>
<td>EVR 1262</td>
<td>Introduction to Ecology &amp; Urban Industrial Pollutants</td>
<td>3</td>
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<td>Must take 28.0 credits from the following group</td>
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<td>BOT 1010</td>
<td>Botany</td>
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<td>BOT 1010L</td>
<td>Botany Laboratory</td>
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<tr>
<td>EVR 1010</td>
<td>Environmental Compliance</td>
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<td>PCB 2033</td>
<td>Introduction to Ecology</td>
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<td>ZOO 1010</td>
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(Over)

Page 2 of 3
College CASSC Meeting - Tuesday, July 8, 2014
Curriculum Report # 110

### Option 27022 – Environmental Science-21 Credits
**Must take 18.0 credits from the following group.**
- EVR 1010 Environmental Compliance 3
- EVR 1262 Introduction to Ecology & Urban Industrial Pollutants 3
- EVR 2625 Infectious and Nuclear Materials 3
- EVR 2630 Hazardous Materials Risk Analysis 3
- EVR 2680 Hazardous Materials Packing & Shipping 3
- EVR 2805 Hazardous Materials Health Effects 3

**AND**
**Must take 3.0 credits from the following group.**
- EVR* 3

### Option 27023 – Assessment/Safety Compliance-21 Credits
**Must take 3.0 credits from the following group.**
- EVR 1010 Environmental Compliance 3
- EVR 1262 Introduction to Ecology & Urban Industrial Pollutants 3
- EVR 1895 Environmental Pollutants 3
- EVR 2625 Infectious and Nuclear Materials 3

**Must take 18.0 credits from the following group.**
- EVR 1633 Hazardous Materials Emergency Response 1 4
- EVR 1640 Hazardous Materials Regulations 1 3
- EVR 1802 Industrial Processes 4
- EVR 1930 Environmental Seminar 3
- EVR 2647 Environmental Site Assessment 3
- EVR 2820 Hazardous Materials Corporate Program Development 3

### Option 27024 – Watershed Management-21 Credits
**Must take 3.0 credits from the following group.**
- BSC 2250 Natural History of South Florida 3
- EVR 1262 Introduction to Ecology & Urban Industrial Pollutants 3

**AND**
**Must take 18.0 credits from the following group.**
- EVR 1010 Environmental Compliance 3
- EVR 1030 Soil and Ground Water Monitoring 3
- EVR 2647 Environmental Site Assessment 3
- PCB 2033 Introduction to Ecology 3

### Option 27025 – HAZMAT Technology-21 Credits
- CHM 2032 Survey of General Chemistry 3
- CHM 2032L Survey of General Chemistry Lab 1
- EVR 1010 Environmental Compliance 3
- EVR 1633 Hazardous Materials Emergency Response 1 4
- EVR 2613 Hazardous Materials Emergency Response 2 4
- EVR 2630 Hazardous Materials Risk Analysis 3
- EVR 2840 Hazardous Materials Emergency Response 3 3

*(END OF PROGRAM SHEET)*