BROWARD COLLEGE LOCATIONS

A. Hugh Adams
Central Campus
3501 S.W. Davie Road
Davie, FL 33314

North Campus
1000 Coconut Creek Blvd.
Coconut Creek, FL 33066

Judson A. Samuels
South Campus
7200 Pines Blvd.
Pembroke Pines, FL 33024

Willis Holcombe Center
111 East Las Olas Blvd. (Bldg. 33)
225 East Las Olas Blvd. (Bldg. 31)
Fort Lauderdale, FL 33301

Coral Springs Academic Center
3500 N. University Drive
Coral Springs, FL 33065

Pines Center
16957 Sheridan Street
Pembroke Pines, FL 33351

Tigertail Lake Center
580 Gulfstream Way
Dania Beach, FL 33304

Cypress Creek Administrative Center
6400 N.W. 6th Way
Fort Lauderdale, FL 33309

Weston Center
4205 Bonaventure Blvd.
Weston, FL 33332

Marine Center of Excellence
7451 Rivera Blvd.
Miramar, FL 33025

AutoNation Center for Excellence in
Automotive Science and Technology
7451 Rivera Blvd
Miramar, FL 33023

Miramar Town Center
2050 Civic Center Place
Miramar, FL 33025

ACCREDITATION
Broward College is accredited by
The Commission on Colleges of the
Southern Association of Colleges and Schools
(1866 Southern Lane, Decatur, GA 30033-4097:
Telephone Number 404-679-4500, www.sacs.org)
To award Associate and Baccalaureate Degrees

MEMBER OF:
American Association of Community Colleges
American Association for Higher Education
American Council on Education
American Technical Education Association, Inc.
Association of Community College Trustees
Association of Governing Boards
College Consortium for International Studies
College Entrance Examination Board
Florida Association of Colleges and Universities
Florida Association of Community Colleges
National Association of Foreign Student Affairs
Southern Association of Colleges and Schools
Southern Association of Community and Junior Colleges

Broward College is an equal access/equal opportunity institution. Students with documented disabilities are assured participation in all college activities and services. Registrants seeking accommodations should contact the Campus Office of Disability Services at least two weeks prior to the first class session. This information is available in alternative format upon request.

This document is prepared and presented as an informational guide only. Course offerings, fee schedules and other representations provided are not controlling and are subject to change, amendment, or deletion by the College as deemed appropriate. The information is taken from Board Policies and Procedures. These sources can be accessed online at www.broward.edu.

NOTE: BC APPLICATION IS ONLINE AT WWW.BROWARD.EDU

Disclaimer: The most current catalog is available on the College’s website. The information in the printed catalog is current up to the print date.
Welcome to Broward College!

For more than half a century, we have served as Broward County’s primary source for educational opportunities. For more than 66,000 students each year who reflect all ages, points of origin and educational goals, our dedicated faculty and staff make your success our top goal.

I invite you to explore this catalog as well as our website and learn about the many opportunities available to you at Broward. As a member of the Florida College System, Broward College offers bachelor’s degree programs, enabling you to earn a four-year degree close to where you live and work. Further, we offer associate of arts degree programs to prepare students for university transfer and the associate of science degree programs and certification programs for careers in the nation’s fastest-growing professions. Whatever option you choose, our faculty and staff stand ready to make your educational dreams come true.

We take pride in working to impact and improve lives by turning possibilities into realities for each student we serve. Our dedicated faculty, administration and staff are dedicated and experienced in helping you reach your career and professional goals.

I wish you a great year, and I look forward to seeing you at graduation when you complete your educational goals.

Sincerely,

J. David Armstrong, Jr.,
President
ACADEMIC CALENDAR

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## TERM REGISTRATION DATES

### 2013-14 TERM I

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<tbody>
<tr>
<td>AUG 26 - DEC 17</td>
<td>AUG 26 - OCT 17</td>
<td>SEPT 9 - DEC 8</td>
<td>OCT 22 - DEC 17</td>
</tr>
</tbody>
</table>

**GRADUATION CANDIDATES**, HONORS, HEALTH SCIENCE, BACHELORS, COLLEGE ACADEMY, VETERANS: April 25 - Aug 25

**CONTINUING**: April 26 - Aug 25

**NEW AND RE-ENTRY, TRANSIENT AND NON DEGREE**: June 5 - Aug 23

**STATE EMPLOYEE WAIVER**: Aug 23

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### 2013-14 TERM 2

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<tr>
<th>Session I</th>
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<th>Session III</th>
<th>Session IV</th>
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</thead>
<tbody>
<tr>
<td>JAN 7 - MAY 5</td>
<td>JAN 7 - MARCH 2</td>
<td>JAN 23 - APRIL 25</td>
<td>MAY 12 - AUG 10</td>
</tr>
</tbody>
</table>

**GRADUATION CANDIDATES**, HONORS, HEALTH SCIENCE, BACHELORS, COLLEGE ACADEMY, VETERANS: Oct 14 - Jan 6

**CONTINUING**: Oct 15 - Jan 6

**STATE EMPLOYEE WAIVER**: Jan 6

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### 2013-14 TERM 3

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<th>Session I</th>
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<tbody>
<tr>
<td>MAY 12 - AUG 10</td>
<td>MAY 12 - JUNE 23</td>
<td>JUN 26 - AUG 10</td>
</tr>
</tbody>
</table>

**GRADUATION CANDIDATES**, HONORS, HEALTH SCIENCE, BACHELORS, COLLEGE ACADEMY, VETERANS: Mar 17 - May 11

**CONTINUING**: Mar 18 - May 11

**STATE EMPLOYEE WAIVER**: May 9

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### ACADEMIC CALENDAR

**CLASSES BEGIN**: Aug 26 - Sept 9 - Oct 22

**WEEKEND COLLEGE CLASSES BEGIN**: Aug 30 - Sept 16 - Oct 29

**LAST DAY FOR 100% REFUND FOR DROPPED CLASS****: Sept 1 - Sept 15 - Oct 28

**ENROLLMENT VERIFICATION BEGINS**: Sept 2 - Sept 16 - Oct 29

**LAST DAY TO DROP FOR 100% REFUND WEEKEND COLLEGE**: Sept 1 - Sept 15 - Oct 28

**HOLIDAY (Labor Day)**: Sept 2 - Sept 2 - Sept 2

**MIDTERM**: Oct 18 - Sept 23 - Oct 21 - Nov 18

**LAST DAY TO WITHDRAW FROM ANY CLASS (60% point)**: Oct 31 - Sept 27 - Oct 30 - Nov 25

**LAST DAY TO CHANGE FROM CREDIT TO AUDIT**: Oct 31 - Sept 27 - Oct 30 - Nov 25

**HOLIDAY (Veterans Day)**: Nov 11 - Nov 11 - Nov 11

**HOLIDAY (Thanksgiving)**: Nov 27 - Nov 27 - Nov 27

**NO EVENING CLASSES**: Nov 28 - Dec 1 - Nov 28 - Dec 1

**NO DAY OR EVENING CLASSES**: Dec 2 - Dec 2 - Dec 2

**FINAl EXAMINATIONS**: Dec 10 - 17 - Last Class Meeting - Last Class Meeting

**GRADES DUE BY 3 p.m.**: Dec 18 - Dec 18 - Dec 18

**GRADUATION**: Dec 19 - Dec 19 - Dec 19

**2** Last day to withdraw from College Prep Classes and not have enrollment in class counted as an attempt.

**3** Students wishing to change from credit to audit, after the drop period has ended, must receive instructor permission. This will also count as an attempt in that subject area.

College Offices will be closed from December 20, 2013 through January 3, 2014. Limited on-campus services may be provided. Registration on the Web will be available except December 25, 2013 and January 1, 2014.
## Academic Calendar

### 2013-14 Term II

<table>
<thead>
<tr>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
<th>Session IV</th>
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</thead>
<tbody>
<tr>
<td>Jan 7-May 5</td>
<td>Jan 7-Feb 28</td>
<td>Jan 23-Apr 25</td>
<td>Mar 12-May 5</td>
</tr>
</tbody>
</table>

**Classes Begin**: Jan 7

**Weekend College Classes Begin**: Jan 5

**Last Day for 100% Refund for Dropped Class**: Jan 15

**Enrollment Verification Begins**: Jan 14

**Last Day to Drop for 100% Refund Weekend College**: Jan 15

**Holiday (Martin L. King, Jr. Birthday)**: Jan 20

**Professional Development Day (No day classes. Evening classes only at 3pm)**: Feb 21

**Holiday (Spring Break)**: Mar 3-9

**Midterm**: Mar 10

**Last Day to Withdraw from Any Class (60% point)**: Mar 24

**Last Day to Change from Credit to Audit**: Mar 24

**Final Examinations**: Apr 29-May 5

**Grades Due by Noon**: May 7

**Graduation**: May 7

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### 2013-14 Term III

<table>
<thead>
<tr>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
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</thead>
<tbody>
<tr>
<td>May 12-Aug 10</td>
<td>May 12-Jun 25</td>
<td>Jun 26-Aug 10</td>
</tr>
</tbody>
</table>

**Classes Begin**: May 12

**Weekend College Classes Begin**: May 16

**Last Day for 100% Refund for Dropped Class**: May 18

**Enrollment Verification Begins**: May 19

**Last Day to Drop for 100% Refund Weekend College**: May 19

**Holiday (Memorial Day)**: May 26

**Midterm**: Jun 26

**Holiday (Independence Day)**: July 4

**Last Day to Withdraw from Any Class (60% point)**: July 7

**Last Day to Change from Credit to Audit**: July 7

**Last Day of Classes**: Aug 10

**Final Examinations**: Last Class

**Grades Due by Noon**: Aug 11

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*Alternate Friday classes are divided as follows:

**Session 2**
Monday and Wednesday classes will meet on May 16, May 30 and June 13, 2014. Tuesday and Thursday classes will meet on May 23, June 6 and June 20, 2014.

**Session 3**
Monday and Wednesday classes will meet on July 18, and August 1, 2014. Tuesday and Thursday classes will meet on June 27, July 11 and July 25, 2014.

**Last day to withdraw from College Prep Classes and not have enrollment in class counted as an attempt.**

**Students wishing to change from credit to audit after the drop period has ended, must receive instructor permission. This will also count as an attempt in that subject area.**

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College Offices will be closed from December 20, 2013 through January 3, 2014. Limited on-campus services may be provided. Registration on the Web will be available except December 25, 2013 and January 1, 2014.
## WEEKEND COLLEGE CALENDAR
### 2013-14

<table>
<thead>
<tr>
<th>SESSION I</th>
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<th>SESSION IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUG 26-DEC 17</td>
<td>AUG 26-OCT 17</td>
<td>SEPT 9-DEC 8</td>
<td>OCT 22-DEC 17</td>
</tr>
<tr>
<td>Aug 50</td>
<td>Aug 50</td>
<td>Sept 15</td>
<td>Oct 25</td>
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</tbody>
</table>

**TERM I**

**LAST DAY TO DROP WITH 100% REFUND**
- Sept 1

**ATTENDANCE VERIFICATION BEGINS**
- Sept 2

**HOLIDAY (Labor Day)**
- Sept 2

**LAST DAY TO WITHDRAW FROM ANY CLASS WITHOUT REFUND**
- Oct 31

**LAST DAY TO CHANGE FROM CREDIT TO AUDIT**
- Oct 31

**HOLIDAY (Veteran's Day)**
- Nov 11

**HOLIDAY (Thanksgiving)**
- Nov 11

**No evening classes**
- Nov 27

**No day or evening classes**
- Nov 28- Dec 1

**CLASSES END**
- Dec 17

**FINAL GRADES DUE**
- BY 5:00 PM
- Dec 18

<table>
<thead>
<tr>
<th>TERM II</th>
<th>SESSION I</th>
<th>SESSION II</th>
<th>SESSION III</th>
<th>SESSION IV</th>
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<tbody>
<tr>
<td>JAN 7-MAY 5</td>
<td>JAN 7-MAR 2</td>
<td>JAN 25-APR 25</td>
<td>MAR 12-MAY 5</td>
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<tr>
<td>Jan 10</td>
<td>Jan 15</td>
<td>Jan 24</td>
<td>Mar 14</td>
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**TERM II**

**LAST DAY TO DROP WITH 100% REFUND**
- Jan 10

**ATTENDANCE VERIFICATION BEGINS**
- Jan 14

**HOLIDAY (Martin L. King, Jr. birthday)**
- Jan 20

**PROFESSIONAL DEVELOPMENT DAY**
- Feb 21

**NO DAY CLASSES**
- Feb 21

**HOLIDAY (Spring Break)**
- Mar 3-9

**LAST DAY TO WITHDRAW FROM ANY CLASS WITHOUT REFUND**
- Mar 24

**LAST DAY TO CHANGE FROM CREDIT TO AUDIT**
- Mar 24

**CLASSES END**
- May 5

**FINAL GRADES DUE**
- BY 5:00 PM
- May 6

<table>
<thead>
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<th>SESSION I</th>
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<th>SESSION III</th>
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<tbody>
<tr>
<td>MAY 12-AUG 10</td>
<td>MAY 12-JUN 25</td>
<td>JUN 26-AUG 10</td>
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<tr>
<td>May 16</td>
<td>May 16</td>
<td>June 30</td>
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**TERM III**

**LAST DAY TO DROP WITH 100% REFUND**
- May 18

**ATTENDANCE VERIFICATION BEGINS**
- May 20

**HOLIDAY (Memorial Day)**
- May 26

**LAST DAY TO WITHDRAW FROM ANY CLASS WITHOUT REFUND**
- July 7

**LAST DAY TO CHANGE FROM CREDIT TO AUDIT**
- July 7

**HOLIDAY (Independence Day)**
- July 4

**CLASSES END**
- Aug 10

**FINAL GRADES DUE**
- BY 5:00 PM
- Aug 11

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## INTERNATIONAL STUDENT ADMISSION DEADLINES
### 2013-14

<table>
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<tr>
<th>TERM I</th>
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<tbody>
<tr>
<td>Last day for all admission documents June 1, 2013 to be received</td>
<td>First time admission for International Students will not be allowed for Session II, Session III, or Session IV</td>
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<tr>
<th>TERM II</th>
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<tbody>
<tr>
<td>Last day for all admission documents October 1, 2013 to be received</td>
<td>First time admission for International Students will not be allowed for Session II, Session III, or Session IV</td>
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<tr>
<th>TERM III</th>
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<tbody>
<tr>
<td>Last day for all admission documents March 1, 2014 to be received</td>
<td>First time International Students must register for either Session I or for both Session II and Session III</td>
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**NOTE:** The Vice President for Student Affairs or College Registrar must approve any exceptions to the above schedule.
All examinations will be held in regular classrooms unless the professor notifies students to the contrary. Please consult with your professors if: (1) examination times conflict, (2) class start times are not listed, or (3) your class normally meets one hour per week.

Final examinations for Session 4 classes will be held the last class meeting. Faculty must coordinate the scheduling of their Session 4 finals through their Associate Dean’s Office.

TUESDAY, DECEMBER 10, 2013

8:30 pm to 10:20 pm  For classes normally starting Tuesday and Thursday at 8:00pm or 8:30pm
4:30 pm to 6:20 pm  For classes normally starting Tuesday and Thursday at 4:00pm or 4:30pm
2:30 pm to 4:20 pm  For classes normally starting Tuesday and Thursday at 2:00pm or 2:30pm
12:30 pm to 2:20 pm  For classes normally starting Tuesday and Thursday at 12:00pm or 12:30pm
10:30 am to 12:20 pm  For classes normally starting Tuesday and Thursday at 11:00am or 11:30am
8:30 am to 10:20 am  For classes normally starting Tuesday and Thursday at 8:00am or 8:30am

WEDNESDAY, DECEMBER 11, 2013

8:30 am to 10:20 am  For classes normally starting Monday and Wednesday at 8:00am or 8:30am
10:30 am to 12:20 pm  For classes normally starting Monday and Wednesday at 10:00am or 11:00am
12:30 pm to 2:20 pm  For classes normally starting Monday and Wednesday at 12:00pm or 1:00pm
2:30 pm to 4:20 pm  For classes normally starting Monday and Wednesday at 2:00pm or 3:00pm
4:30 pm to 6:20 pm  For classes normally starting Monday and Wednesday at 4:00pm or 5:00pm
6:30 pm to 8:20 pm  For classes normally starting Monday and Wednesday at 6:00pm or 7:00pm
8:30 pm to 10:20 pm  For classes normally starting Monday and Wednesday at 8:00pm or 9:00pm

THURSDAY, DECEMBER 12, 2013

8:30 am to 10:20 am  For classes normally starting Tuesday and Thursday at 7:00am or 7:30am or 8:00am
10:30 am to 12:20 pm  For classes normally starting Tuesday and Thursday at 11:00am or 11:30am
12:30 pm to 2:20 pm  For classes normally starting Tuesday and Thursday at 1:00pm or 2:00pm
2:30 pm to 4:20 pm  For classes normally starting Tuesday and Thursday at 3:00pm or 4:00pm
4:30 pm to 6:20 pm  For classes normally starting Tuesday and Thursday at 5:00pm or 6:00pm
6:30 pm to 8:20 pm  For classes normally starting Tuesday and Thursday at 6:00pm or 7:00pm
8:30 pm to 10:20 pm  For classes normally starting Tuesday and Thursday at 8:00pm


For classes normally meeting on Friday or Saturday, your Final Exam will be at your regular class time.

MONDAY, DECEMBER 16, 2013

8:30 am to 10:20 am  For classes normally starting Monday and Wednesday at 8:00am or 9:00am or 9:30am
10:30 am to 12:20 pm  For classes normally starting Monday and Wednesday at 10:00am or 10:30am
12:30 pm to 2:20 pm  For classes normally starting Monday and Wednesday at 12:00pm or 1:00pm
2:30 pm to 4:20 pm  For classes normally starting Monday and Wednesday at 2:00pm or 3:00pm
4:30 pm to 6:20 pm  For classes normally starting Monday and Wednesday at 4:00pm or 5:00pm
6:30 pm to 8:20 pm  For classes normally starting Monday and Wednesday at 6:00pm or 7:00pm
8:30 pm to 10:20 pm  For classes normally starting Monday and Wednesday at 8:00pm

TUESDAY, DECEMBER 17, 2013

8:30 am to 10:20 am  For classes normally starting Tuesday and Thursday at 8:00am or 9:00am or 9:30am
10:30 am to 12:20 pm  For classes normally starting Tuesday and Thursday at 10:00am or 10:30am
12:30 pm to 2:20 pm  For classes normally starting Tuesday and Thursday at 12:00pm or 1:00pm
2:30 pm to 4:20 pm  For classes normally starting Tuesday and Thursday at 2:00pm or 3:00pm

WEDNESDAY, DECEMBER 18, 2013

Last day to report grades by 5:00 pm

NOTE: For classes normally meeting one hour per week, please consult your instructor.
VISION, MISSION, CORE VALUES AND PHILOSOPHY

Vision Statement
Broward College will be a destination for academic excellence, serving students from local communities and beyond. The college will embrace diversity — student, faculty, staff, and business partnerships — and foster welcoming, affirming, and empowering culture of respect and inclusion. The college will stand at the leading edge of technological and environmentally sound innovation, providing attainable, high-quality educational programs. Broward College will be recognized for its recruitment and retention of diverse, outstanding faculty and staff whose primary focus will be to promote the success of each individual student while supporting lifelong learning for all students. As a model post-secondary institution, the college will connect its students to diverse local and global communities through technical, professional, and academic careers.

Mission Statement
The mission of Broward College is to achieve student success by developing informed and creative students capable of contributing to a knowledge and service-based global society. As a public community college accredited to offer associate degrees, selected baccalaureate degrees, and certificate programs, the institution and its District Board of Trustees are committed to fostering a learning-centered community that celebrates diversity and inclusion by empowering and engaging students, faculty, and staff.

Core Values
Academic Excellence and Student Success
Achieving student success through high-quality, learning-centered programs and services while continuously evaluating and improving student learning outcomes that reflect the highest academic standards. This is accomplished by providing flexible educational opportunities accessible to all students, regardless of time or place.

Diversity and Inclusion
Creating a community that celebrates diversity and cultural awareness while promoting the inclusion of all its members.

Innovation
Developing and implementing the most emergent technologies and teaching/learning methods and strategies to create learning environments that are flexible and responsive to local, national, and international needs.

Integrity
Fostering an environment of respect, dignity, and compassion that affirms and empowers all its members while striving for the highest ethical standards and social responsibility.

Sustainability
Ensuring effective, efficient use of college resources while implementing fiscal sound practices and environmentally sustainable initiatives that can be modeled in collaboration with our community.

Lifelong Learning
Promoting the educational growth and development of all individuals through a variety of post-secondary professional, technical, and academic programs and services.

Philosophy
As an institution committed to the ideal of the value and dignity of all people, Broward College recognizes the religious, ethnic, and cultural diversity of its students and staff and endeavors to provide equal educational opportunity for all students. Furthermore, the college fosters the value of lifelong learning as it strives through teaching excellence to enable students to appreciate knowledge and to acquire an education that will assist them in assuming positive roles in a changing society. Believing that educated people should be guided in their behavior by decency and civility, the college values honesty, integrity, and social responsibility among its staff and its students. Furthermore, it aspires to empower students with the critical thinking and problem-solving skills, global perspective, clarified values, and creativity that will enable them to make moral choices and ethical decisions in all aspects of their lives. In addition, the college embraces a commitment to American democratic values and culture, the principles of responsible citizenship, life enrichment, and self-awareness.

The College
As the public higher education institution in the county, Broward College functions as the principal provider of undergraduate higher education for the residents of Broward County. The college provides associate and baccalaureate degrees, and technical and occupational training for the citizens of Broward County, its district by law. As one of the 28 public college communities in the Florida system, Broward College is designed to be a community-based institution that offers a comprehensive range of programs responsive to changes in the community and in technology. Where appropriate, these programs are articulated with the public school system, area vocational schools, and upper-level institutions to ensure that students can move smoothly from one system to another.

The college’s district board of trustees, its legal governing body, serves as a corporate body with all powers necessary for governance and operation. The college operates under statutory authority and rules of the Florida Department of Education. State appropriations and student fees provide operational funding for college programs. Construction and building maintenance funds are provided through statewide capital outlay bonds, not through local property taxes.

THE CAMPUSES AND CENTERS

A. Hugh Adams Central Campus
The A. Hugh Adams Central Campus is located west of the Florida Turnpike and south of Interstate 595 on Southwest Davie Road in Davie. The Adams Campus is situated on 150 acres in a traditional college setting equipped with an aquatic complex and athletic facilities. The campus has more than 25 buildings housing the Buehler Planetarium and Observatory, the Ralph R. Bailey Concert Hall, the Fine Arts Theatre, the Institute of Public Safety, a student services center, state-of-the-art science laboratories, health science simulation equipment, and computer science laboratories, as well as facilities to support academic disciplines. The campus also operates three other sites: the Willis Holcombe Center, the Institute for Economic Development and the Tigerlil Lake Center. In addition, the Adams Central Campus houses the University/College Library, a research facility jointly funded by Broward College and Florida Atlantic University. The campus hosts two educational partners on site: Florida Atlantic University, Davie Campus, and the College Academy @ Broward College, a high school operated in partnership with the Broward County Public Schools.

Judson A. Samuels South Campus
Located west of the Florida Turnpike at 7200 Pine Island Boulevard in the city of Pembroke Pines, the Judson A. Samuels South Campus buildings are nestled on 185 acres of land, servicing south Broward County and situated just east of the North Perry General Aviation Airport. North Perry Airport is also a joint partner with the Broward College Aviation Institute, housed at South Campus. The campus boasts a Center for Academic Success, designed with six state-of-the-art learning labs and home to the South Campus Nursing program as well as the English and ESL Departments. In addition, South Campus has partnered with Broward County to fund the joint-use Broward County South Regional/Broward College Library. Along with academic resources, the campus is home to the Performing and Cultural Arts Theatre (PCAT) a 354-seat multipurpose venue capable of hosting a variety of college and community events, such as small theatrical performances, musical concerts and lectures for audiences to experience...
The Aviation Institute, located adjacent to North Perry Airport, offers Tigertail Lake Recreational Center the college's Human Resources, the Institute for Economic Development, a foot building at 6400 N.W. 6th Way in Fort Lauderdale that is home to The Cypress Creek Administrative Center is a three-story, 73,280-square-foot building at 6400 N.W. 6th Way, Ft. Lauderdale, FL. The college offers a variety of continuing education courses, technical certificates. Additionally, Broward College Online – Florida's Global Campus offers blended degree and certificate program offerings. With an emphasis on innovation, supporting the viability, vitality and robust growth of the communities they serve is an important part of the mission of Florida's publicly supported community colleges. With a half century of service to its community, none of the "Great 28" fulfills its mission better than Broward College.
As the College’s equity coordinator, the Associate Vice President for Human Resources and equity coordinates compliance with civil rights protections and is the State’s designated Equity officer for the College.

Broward College does not discriminate on the basis of race, color, ethnicity, genetic information, national origin, sex, disability, or age in its programs and activities. Inquiries regarding the non-discrimination policies may be directed to: Denise Edsall, Associate Vice President, Human Resources, 6400 NW 6th Way, Ft. Lauderdale, Fl 33309, (954) 201-7592, dedsalldh@broward.edu.

Employees, applicants, and students are regularly notified of this information and this information is posted in conspicuous locations on all campuses, is provided annually to all employees and students through college publications including, but not limited to, the following: College Newsletter, Salary Schedule, College Catalog, Course Schedule, Student Handbook, and the Annual Equity Report.

Any employee, applicant for employment, student, or candidate for admission who has concerns about equitable treatment may contact the College’s Equity Officer. Students and employees should use College Procedure 3.34 Reporting Violations and Conducting Investigations of Complaints Alleging Discrimination, Harassment, and/or Retaliation.

The college affirms its commitment to ensure that each member of the college community shall be permitted to work in an environment free from any form of discrimination, harassment, or retaliation according to the college policies and procedures. The authority is delegated from the college president to the associate vice president for human resources and equity. The college, in fulfilling this obligation, adheres to the college’s policies prohibiting discrimination, harassment, and retaliation.

The equity office in human resources shall investigate complaints of discrimination, harassment, and retaliation according to the college policies and procedures. This authority is delegated from the college president to the associate vice president for human resources and equity and carries the obligation to ensure that the college community adheres to the college’s policies prohibiting discrimination, harassment, and retaliation.

The college affirms its commitment to ensure that each member of the college community shall be permitted to work in an environment free from any form of discrimination or harassment based upon race, color, sex, national origin, religion, age, disability, marital status, sexual orientation or other legally protected classification. Please see Broward College Policy 3.34, 3.44 for further details.

The Broward College District Board of Trustees brings together community leaders with diverse backgrounds who provide dedicated leadership to the college and its activities. Florida’s governor appoints this group of outstanding local citizens. As the governing board of the college, they are the stewards of BC’s commitment to excellence, while they guide the college and implement the goals enumerated in their mission statement. Their desire to provide students with the academic skills needed for transferring to universities, to enhance skills to be competitive in the rapidly changing job market, and to offer opportunities for continuing education, personal growth and enrichment is a challenge they approach with enthusiasm. As a team, these dynamic community leaders are fully engaged in providing a future that offers increased higher education opportunities for Broward County residents.

Sean Guerin, Chair
Fort Lauderdale

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Hollywood

Pam Stephany
Fort Lauderdale

DistRICT BOARD OF TRUSTEES

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Think Critically

WWW.BROWARD.EDU
Since its inception in 1971, the Broward College Foundation has transformed lives through education by providing community awareness, advocacy and financial resources to Broward College. The foundation is a 501(c)(3) not-for-profit organization led by a volunteer board of directors composed of business and civic leaders, donors and college representatives. Through their efforts, the foundation raises funds, conducts programs and practices stewardship that provides an affordable, quality education for many students who could not otherwise afford to attend college. The foundation also supports an endowed teaching chair program to reward outstanding professors and encourage innovation in the classroom.

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SCHOLARSHIPS
The Broward College Foundation serves as the conduit of private contributions to the college. Each year the foundation provides more than $2 million in scholarship funds to the college through the generosity of individuals, families, foundations, companies and organizations. Scholarships are available for financially needy students and merit awards are available for students with outstanding academic records.

ENDOWED TEACHING CHAIRS PROGRAM
The Broward College Foundation was the nation’s first community college foundation to complete an endowed teaching chair capital campaign; to recognize, support and encourage the efforts of outstanding professors in their classrooms. The campaign was initiated to honor the college’s 30th anniversary with a goal of 30 chairs. Today, the program has 36 chairs, and more than 100 professors have been named recipients.

MERITORIOUS SERVICE AWARDS
Periodically, Broward College and the Broward College Foundation recognize individuals for their outstanding leadership, service and philanthropy to the college. The college recognizes their efforts with the following awards:

DISTINGUISHED SERVICE AWARD

DISTINGUISHED ALUMNI AWARD


* Deceased
ENTRANCE SERVICES

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ENTRANCE SERVICES

Admissions Procedures
The Board of Trustees establishes Admissions Policies at Broward College (BC) aligned to State Statute 1007.265 and accompanying Board Rules. Broward College gives all students the opportunity to pursue an education beyond high school.

High school graduates with a standard high school diploma, a General Equivalency Diploma (GED), accepted Certificate of Completion (see specific Florida high school acceptable withdrawal codes in this section), and applicants who completed the requirements for home education may apply for admission to the College. Students without a standard high school diploma or GED may be admitted to specific vocational certificate programs.

Broward College has developed guidelines to determine the validity of high school diplomas in compliance with Federal Title IV Regulations. Student Financial Aid has developed minimum standards outlined in College Policy 5.01 and the accompanying procedure. All students are required to complete the requirements and procedures outlined for admission.

How to Apply
To gain admission to BC all students must complete the following steps.

1. Complete an online application for admission.
Log onto www.broward.edu. If a student has a Social Security Number (SSN) or a Taxpayer Identification Number (TIN), federal law requires that it is furnished to Broward College (BC) so that it may be included on all documents filed by the institution with the Internal Revenue Service. Students who fail to furnish BC with the correct SSN or TIN may be subject to an IRS penalty of $50 unless the failure is due to reasonable cause and not to willful neglect.

2. Determine Your Tuition Rate
Florida Residency for Tuition Purposes.
As a State institution, there are two tuition rates: one for residents of the State of Florida and one for non-residents. Every applicant for admission must submit and complete the Residency Affidavit for Florida Tuition Purposes as a statement of his or her length of residence in the state. Students are coded upon entry until they meet this statutory requirement and submit the required affidavit attesting to their length of residence in the state or supporting documentation to determine their residency for tuition purposes.

All residency documentation must be reviewed and validated before residency for tuition purposes can be established. Students who are unable to provide sufficient and acceptable documentation to provide residency their initial classification will remain coded as non-resident for tuition purposes and will be charged out-of-state tuition rates. Any changes to students’ initial residency determination must be made prior to the first day of classes for the semester enrolled. Thereafter, any residency status changes during enrollment, students must request that their residency is reclassified, which will impact all subsequent enrollment periods. Documentation to support residency reclassification must be submitted to any campus or center admissions offices. Students who fail to submit documentation and still want to register for courses, tuition will be charged at the out-of-state rate. See tuition rates in the fee section of the catalog.

The Residency Affidavit may be obtained from the BC website at www.broward.edu/admissions/Documents/residency.pdf.

Information Note: Initial residency can generally be proven by providing two (2) of the documents listed above as acceptable. However, residency reclassification requires three (3) acceptable documents.

Residency for Tuition Purposes and Florida Statute
In determining a Florida resident for tuition purposes, the burden of proof rests with the applicant.

A Florida resident, or if a dependent child, his/her parent(s), must have established and maintained a legal residence in the state for at least 12 consecutive months immediately prior to the first day of classes. The applicant must provide clear and convincing documentary evidence that his/her length of residence, or if a dependent child, his/her parent(s) length of residence, was for the purpose of maintaining a bona fide domicile and not for the purpose of maintaining a temporary residence for tuition purposes. Each student is required to provide a statement of residency through the submission of a Florida Resident for Tuition Purposes Affidavit.

A dependent child whose parents are divorced or separated may qualify as a resident for tuition purposes if either parent is a legal resident of Florida regardless of which parent claims the child as a dependent for federal income tax purposes.

A dependent child living with an adult relative other than his/her parent(s) may qualify as a Florida resident for tuition purposes if the adult relative has maintained a legal residence in the State of Florida for 12 consecutive months immediately prior to the student’s first day of classes. The dependent child must have lived with the relative for five consecutive years immediately preceding the term in which residency classification is being requested and claimed by that relative as a “dependent” under the Federal Income Tax Code.

The following categories will be considered as Florida residents for tuition purposes:
- Active duty members of the armed forces stationed in Florida, or whose home of record is in Florida, and their dependents.
- Active duty members who are stationed outside of Florida who take courses online.
- Full-time instructional and administrative personnel employed by a public educational institution and their dependents.
- Qualified beneficiaries under the Florida Pre-Paid Post- secondary Expense Program.
- Others as permitted by Florida statute or rule.

Residency for Tuition Purposes Documentation
The applicant may be asked to submit the following documentation for himself/herself, parent(s) or the qualifying person.

- A copy of a Florida driver’s license.
- Proof of continuous physical presence in Florida for 12 consecutive months immediately preceding the first day of classes.
- Proof of being self-supporting for the 12 consecutive months immediately prior to the first day of classes.
- Any other documentation required to support a claim of Florida residency for tuition purposes.

Reclassification: Any student who seeks reclassification as a Florida resident must complete and submit a Florida Residency Appeal form obtained online at http://www.broward.edu/admissions/Documents/req-002.pdf. At least three supporting documents must be submitted with the Appeal for reclassification prior to the first day of classes for the term in which reclassification is sought. All Florida Residency Appeals will be reviewed by the Florida Residency Appeal Committee and a decision provided to the student in writing. The Committee’s decision is final.

Residency requirements are determined by the State Legislators and are subject to change.
Policy Statement: Pursuant to College admission policy 5.01, students who falsify their residency or citizenship status upon admission or re-admission may be denied admission or dismissed permanently at the point of the College’s discovery. Any money owed to the College must be paid in full.

Acceptance of Applications
Upon completion of all admission forms and assuming eligibility, the applicant will receive an acceptance letter. Provisional admission status may be granted to students whose transcripts have not been received or whose transcripts do not meet the established requirements. These students will be required to submit their transcript(s) for evaluation, aid will not be packaged and awarded or will be revoked. See the catalog for additional information.

Application Fee
All official transcripts are required PRIOR to the start of classes. Unofficial transcripts can be used for advising prior to the start, but cannot be accepted for admission or in any decision relating to exceptions to College policy (Academic Standards Petition) until official transcripts are received.

Florida Bright Futures students are not required to complete the FASFA to be eligible for their Florida Bright Futures awards. However, if students want to determine their eligibility for Federal, State and financial aid, they must complete the FAFSA and all other requirements aligned to the aid source.

Information Note: Students who have earned 24 credit hours of Broward credit through dual enrollment or transfer credits from other colleges and universities, may present their official college transcripts in lieu of high school records. Students who receive Federal student aid at other institutions should understand that the College has access to information relative to prior institutions attended where aid was awarded. Students should not abandon from submitting prior records to the College until official transcripts are received.

Information Note: Students who hold a Florida Evergreen Scholarship or a Florida Bright Futures Scholarship may not submit their transcript(s) for evaluation, aid will not be packaged and awarded or will be revoked. See the catalog for additional information.

Transcript Submission Timelines
College students entering BC from high school or other postsecondary institution must meet all high school and college requirements prior to admission and registration. Information on the Federal, Florida, and BC guidelines is available. Please contact your high school or college for more information.

Information Note: The Federal student aid information is available online at www.broward.edu/fasfa. Students must complete their FAFSA to be eligible for financial aid. If students have not filed their income tax return by the FAFSA filing deadline, they may use the IRS Data Retrieval tool in order to avoid verification of income information.

Financial Aid
Students and parents are encouraged to file their taxes early and to file Federal and State Form 1040, or Federal Form 1040EZ. Students should select tax year 2020 to avoid verification of income information.

Information Note: Students who have earned 24 credit hours of Broward credit through dual enrollment or transfer credits from other colleges and universities, may present their official college transcripts in lieu of high school records. Students who receive Federal student aid at other institutions should understand that the College has access to information relative to prior institutions attended where aid was awarded. Students should not abandon from submitting prior records to the College until official transcripts are received.

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Financial Aid
Students and parents are encouraged to file their taxes early and to file Federal and State Form 1040, or Federal Form 1040EZ. Students should select tax year 2020 to avoid verification of income information.
Communication with faculty, staff and administrators is done with electronic communication through Broward College's website at www.broward.edu where email accounts can be set up through the student’s myBC login and by clicking on the student email account information icon.

Admission Status
To meet the needs of a diverse community of learners, students can enroll as follows:

Degree seeking - degrees and diplomas (financial aid eligible)
Non-degree - seeking up to 12 college credits (not financial aid eligible)

Transfer students - students who have taken one or more credits at another College or university. (financial aid eligible depending on standards of academic progress for credits that apply to the degree program at Broward College.)
Transient - students who are enrolled at another college or university and want to take courses at Broward College. (financial aid can only be processed by the home institution.) Students who take courses at Broward will need to pay for those courses at the transient institution, without financial aid, and will be reimbursed when aid is disbursed at their home institution.

Degree Seeking Students
Students who intend to complete an associate degree (AA, A.S. or A.A.S.), must have a standard high school diploma with eligible high school withdrawal code as noted in the high school withdrawal code table; a GED or must be home education graduates who completed requirements in accordance with Florida Statutes. To be admitted as degree seeking, all students must submit complete transcripts from high school and all colleges attended beyond high school prior to enrollment.

The Florida Department of Education defines public high school equivalency diplomas, as follows:

High School Graduation Code
• Standard High School Diploma
• Adult Certificate of Completion
• Special Certificate of Completion

High School Graduation Requirements
• Must have completed a standard high school diploma with an eligible high school withdrawal code as noted in the high school withdrawal code table; a GED; or must be home education graduates who completed requirements in accordance with Florida Statutes. To be admitted as degree seeking, all students must complete transcripts from high school and all colleges attended beyond high school prior to enrollment.

Broward College offers Bachelor degrees programs which offer various workforce degree programs. Students interested in applying to one of the College’s baccalaureate programs should refer the Bachelor degree section of the catalog. Students can also transfer to a four-year university upon completion of their AA or AS degree at Broward College.

Admissions Tip: Students who transfer without completing a degree are subject to course-for-course transfer guidelines. Students who complete an AA degree and transfer to a Florida College will be under the Florida 2.2 transfer guidelines.

Degree or non-degree seeking students with Earned Degrees:
Students holding earned AA degrees cannot earn another AA degree. Students with earned AS or AAS degrees can earn other associate in science degrees. There are limits on the number of Pell semesters for a bachelor degree. As such, students are encouraged to progress to the next level rather than earning multiple degrees at the same level. Students should meet with academic and financial aid advisors to understand the impact of their Federal student financial aid when pursuing degrees at the same level.

Federal Policy Statement: Federal Pell Grants are direct grants awarded through participating institutions to students with financial need who have not received their first bachelor degree or who are enrolled in certain post baccalaureate programs that lead to teacher certification or licensure.

Federal student aid regulations students who received a Pell Grant for the first time can only receive the Pell Grant for up to 12 semesters or the equivalent.

Per Federal student aid regulations students who receive a Pell Grant for the first time can only receive the Pell Grant for up to 12 semesters or the equivalent.

Admission Tip: Students are encouraged to persist toward a bachelor’s degree rather than using all of their Pell eligibility at the associate degree level.

Non-Degree Seeking Students
Students who wish to take college credit or vocational credit for personal enrichment or career exploration, who do not intend to seek a degree or a certificate, will be admitted as non-degree seeking students. Non-degree seeking students will:
• must submit a valid high school diploma, GED or home school certification, but are not required to submit placement test scores;
• if college level coursework is the subject of the application or fee for placement, fees may be allowed to enroll in up to 12 semester hours of coursework, that does not require placement, without declaring institutional residency. Enrollment beyond 12 semester hours will require the student to complete the full admission process, including placement testing;
• if the student requests to pre-requisites, which may create a need for placement testing;
• students are not eligible for any financial aid.

Certificate/Appplied Technology Diploma Applicants
Requirements for applicants who intend to complete a Vocational Certificate, Technical Certificate or Applied Technology Diploma vary from program to program. Specific requirements for certificate and applied technology programs are in the academic section of this catalog. Degrees or non-degree seeking students:
• high school diploma or GED;
• transcripts from all colleges/vocational centers previously attended;
• placement test scores (TABE or PERT)

Non High School Graduates may enroll as non-degree seeking student in a limited selection of postsecondary adult vocational courses or continuing education courses. Such applicants may not be admitted to college credit programs. These applicants are encouraged to meet with an academic advisor prior to starting the application process at the College.

Broward College Re-Entry Students
Students who have prior enrollment history at the College and have not attended a Florida state institution for one academic year, and are in good academic standing, may submit a Re-Entry Application to update personal information, (which includes a valid SSN or TIN number, see additional information under the section labeled “How to Apply” item number 1 in this chapter), re-certify Florida residency, and verify educational goals. If the returning student requests a change from postsecondary status, a petition for reclassification must be submitted to the Admissions Office.

College Policy Statement: Per College policy, any falsification of residency status may lead to permanent dismissal, loss of credit earned and repayment of any fee related to the incorrect prior classification.

If the returning BC student has attended another Florida state institution within the last 24 months while not enrolled at BC, and that institution determined the student a Florida Resident for Tuition Purposes, the Florida residency status will be honored upon entry or re-entry. An official and complete electronic transcript showing no work in progress must be submitted from all colleges and universities attended while not enrolled at BC.

Transfer Students
Transfer students are students who have previously attended another college or university and wish to continue their education at BC. Transfer students are required to follow all the admission procedures indicated in this section of the catalog.

Transfer students should also observe the following requirements:
• Students who have fewer than 24 credits at the college level must submit official electronic transcripts from their high school and all colleges and universities attended;
• Students who are not in good academic standing (on suspension or dismissal) must see an Academic Advisor to petition through the Admissions Office for readmission;
• Students who have attended a college/university outside the United States are required to provide a course by course commercial translation and evaluation with upper and lower level course identification for all course work completed.

Required transcripts must be on file at the college will be blocked from registering for their first term of enrollment. Students whose transcripts are not on file at the college will be blocked from registering for their first term of enrollment/re-entry.

International Students
International students must contact the International Student Admissions Office three to six months in advance to obtain an Admissions Packet specifically for F-1 and M-1 applicants. The packet contains the required admission procedures to Broward College. F1 and M1 applicant must submit all required documents for admissions by the deadline shown in the packet.

Certification/Approval: International Students
Information Note: All international students must be enrolled in a degree seeking program as a full-time student (12 credit hours or more). See the Degree seeking section of this catalog for additional international admission information.

Non-Eligible High School Diploma Holders with Earned College Credit
Students who wish to have dual enroll while attending high school and hold a non-eligible high school diploma that does not qualify for admission based and offers students the latest technology in e-mail with a long list of benefits and features such as Single e-mail sign-on, Sync to your other e-mails, 25 GB e-mail file storage, Social Networking, Access, view, edit documents from anywhere using Microsoft Office on the Web, Edit Word, Excel, PowerPoint, and OneNote online without additional software. Mobile access to e-mail, IM, text, calendar, blogging, and campus directory from virtually any computer or mobile device (phone) with an Internet connection. Instant messaging, Ability to continue to use e-mail after leaving Broward College and more.

Withdrawal Code Table

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>High School Graduation</th>
<th>Degree Seeking</th>
<th>Financial Aid</th>
</tr>
</thead>
<tbody>
<tr>
<td>W06</td>
<td>Standard Diploma (Passed FCAT)</td>
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<td>Yes</td>
<td></td>
</tr>
<tr>
<td>WR**</td>
<td>Special Diploma (Option One)</td>
<td>No</td>
<td>No***</td>
<td></td>
</tr>
<tr>
<td>WR**</td>
<td>Standard Diploma (GED Exit Option)</td>
<td>No</td>
<td>No***</td>
<td></td>
</tr>
<tr>
<td>W**</td>
<td>Special Diploma (Option Two)</td>
<td>No</td>
<td>No***</td>
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<td>WA**</td>
<td>Adult Standard High School Diploma</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>WA**</td>
<td>Adult Standard High School Diploma (Alternate Assessment)</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>W**</td>
<td>Standard High School Diploma (Credit Courses)</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>W**</td>
<td>Standard High School Diploma (Credit Courses - Alternate Assessment)</td>
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<tr>
<td>WA**</td>
<td>Standard High School Diploma (Accelerated, Alternate Assessment)</td>
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<td>Yes</td>
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<td>WA**</td>
<td>Standard High School Diploma (18-Credit College Prep)</td>
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<td>W**</td>
<td>Standard High School Diploma (Alternate Assessment)</td>
<td>Yes</td>
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<tr>
<td>W6A</td>
<td>Adult Standard High School Diploma (Alternate Assessment)</td>
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<td>W**</td>
<td>Standard High School Diploma (FCAT Waiver)</td>
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<td>WCG</td>
<td>Standard Diploma (GED Exit Option, Alternate Assessment)</td>
<td>No</td>
<td>No***</td>
<td></td>
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</tbody>
</table>

*All High School Graduation Code requirements include:
**With the elimination of the Ability to Benefit provision, applicants first entered after July 1, 2002 without a standard high school diploma or its equivalent will be eligible for initial FAFSA filing.
***Financial aid eligibility depending on standards of academic progress for credits that apply to the degree program at Broward College.
****With option for postsecondary transfer students.
Bachelor of Applied Science

Admission Requirements

The Bachelor of Applied Science is an open access program designed for the adult learner who has earned a two-year technical degree and wishes to advance professionally. General admission to Broward College is required, and students will submit a supplemental application to the BAS program. Applicants for the BAS program must have completed a minimum of 15 semester hours of general education requirements as part of their AS or A.S. degree. The remaining general education requirements will be completed during the Bachelor of Applied Science degree program. Students must meet all of the Student Florida Bachelor of Applied Science general education requirements to be awarded the Bachelor of Applied Science (BAS) degree in Supervision and Management. Students with an Associate in Arts degree (AA) or 60 college credits may be admitted to the program upon recommendation of the Dean Bachelor of Applied Science, and Dean for Student Affairs.

Applicants are required to have a cumulative grade point average (GPA) of 2.0 on a 4.0 scale in all post-secondary coursework. Applicants must be at least 21 years old and have earned an A.A. or A.S. degree. The remaining general education semester hours (totaling 36) will be completed during the Bachelor of Applied Science degree program. Students are required to complete the supplemental application to the BAS program. Applicants are required to have a cumulative grade point average (GPA) of 2.0 on a 4.0 scale in all post-secondary coursework. Applicants must be at least 21 years old and have earned an A.A. or A.S. degree. The remaining general education semester hours (totaling 36) will be completed during the Bachelor of Applied Science degree program. Students are required to complete the supplemental application to the BAS program.

Admission Requirements

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements.

- An associate's degree or credit hours: Students should have an Associate of Arts degree from a regionally-accredited community college or 60 semester credit hours of postsecondary education from a regionally accredited college or university with 36 credit hours of general education course work (please refer to the catalog at www.broward.edu for specific course requirements).
- Bachelor of Science in Education

Admission Requirements

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements.

- Bachelor of Science in Education

Admission Requirements

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements.

- Academic requirements: Student should be in good academic standing at their last attended institution and have completed the following prerequisite courses:
  - EDSP100: Introduction to the Teaching Profession
  - EDSP201: Introduction to Diversity and Exceptionalities for Educators
  - EME2040: Introduction to Education Technology

- Students must have earned a grade of "C" or better.

- Additional prerequisites for the middle grades and secondary programs apply.

- Foreign language requirements: Two years of sequential foreign language study in high school or eight semester credit hours at the college level are required.

- Students must pass the General Knowledge Exam (GKE) or College Level Academic Skills Test (CLAST). Students MUST pass the essay portion of the GKE to enroll. All parts of the GKE must be successfully completed by the 15th credit in order to be fully admitted to the program. If the student passed the GKE prior to July 1, 2002, they may be exempt from the GKE.

- Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the program requirements, students must pass the Florida Teacher Certification Exams.

- Non-credit Students

- Students who are interested in taking non-credit courses may enroll by completing a non-credit application for admission. No other admission procedures apply to non-credit courses. Applicants can register for continuing education and economic development non-credit courses online at www.broward.edu/academic/CF/Pages/default.aspx.

- Bachelor of Science in Nursing

Admission Requirements

The RN-BSN Program is designed for licensed registered nurses with at least a two-year associate of science degree and wish to advance professionally.

Applicants must complete the following requirements prior to formal admission into the RN-BSN Program:

- Submit a supplemental application to the RN-BSN Program by the deadline: for fall admission the deadline is April 30th of every year, and for fall admission the deadline is April 30th of every year.
- Pass the essay portion of the GKE to enroll. All parts of the GKE must be successfully completed by the 15th credit in order to be fully admitted to the program. If the student passed the GKE prior to July 1, 2002, they may be exempt from the GKE.
- Students must possess an unrestricted and unencumbered active license as a registered nurse in Florida if enrolling in face-to-face classes.
- Applicants who do not hold an active Florida Registered Nurse license should contact - The Florida Board of Nursing at: (850) 245 - 4125.
- Apply for Financial Aid before the published deadlines on the Student Financial Aid website.
- Achieve a minimum 2.5 overall cumulative and 2.5 nursing GPA.
- Successfully completed required health forms.
- Successfully completed criminal background investigation and drug screening (fee required).
- Successfully completed statistics (STA 252) or equivalent course recognized by Broward College.
- Successfully completed a minimum of 24 General Education requirement credits.

- Transient Students

- Transient students are students who are currently enrolled at another institution and have permission from that institution to take classes at Broward College. These students do not intend to transfer to, or seek a degree or certificate at BC. These students are required to do the following:
  - Out of state and private school students should complete a BC application online at http://www.broward.edu/admissions/Pages/Transientstudents.aspx.
  - The student must provide a valid SSN or TIN number; see additional information under the section labeled "How to Apply".
INTERNATIONAL STUDENT ADMISSIONS

International Students
(F-1 and M1 Student Visa Status)

Broward College embraces a multicultural, diverse student environment and encourages applications from students all over the world. Students should apply to the college three to six months in advance of the anticipated semester of enrollment. An international student application and admission brochure can be obtained from any admission office on any campus or can be downloaded from the College website at www.broward.edu/international. The admission packet contains general information as well as specific requirements for admission to and continued enrollment at Broward College. Deadline dates are included in the packet.

Admission Requirements
The following documents are required for admission to the College. Baccalaureate degree seeking students who have earned a two-year degree or 60 credits of transferrable credit should refer to the bachelors admissions requirements.

1. International Student Application
   - Completed application with signature.
   - $75 application fee in check or money order drawn on a United States bank.

2. Official Education Records through highest level completed along with an official certified English translation (Copies must be certified by the school attended, the Ministry of Education in native country, or the US Consulate.)
   - All applicants must have the equivalent of a US high school diploma or General Equivalency Diploma (GED). (High school diplomas do not have to be translated to English with the exception of Hebrew, Arabic or Asian).
   - For the British education system, four academic passes on the GCE, CXC, BGCSE, WAEC, WASC, or HKCE exams in General Proficiency are required.
   - Official College and University postsecondary Transcripts with a minimum Grade Point Average of 2.0 or its equivalent may be accepted in transfer based on the following guidelines.
   - F1 and M1 students who attended postsecondary institutions outside the US must submit a commercial evaluation completed within 30 days of the first day of classes.
   - Students who elect not to submit their transcript for evaluation upon entry and take any coursework that may be later deemed equivalent to BC coursework will not be reimbursed for courses taken at Broward College.
   - F1 and M1 students seeking a bachelor degree must have the commercial evaluation completed prior to admission. The evaluation must consist of a course by course evaluation, upper division course identification, and Grade Point Average (GPA).
   - F1 and M1 transfer students entering from another US college or university will not be accepted until all official transcripts have been received and evaluated with all coursework at a minimum GPA of 2.0.

3. Evidence of English proficiency (Native English speakers or applicants for the language program are not required to show evidence of English proficiency.)
   Degree seeking students must submit one of the following:
   - TOEFL - minimum score of 79 on the internet–based test or a minimum score of 550 on the paper-based test.
   - IELTS - minimum score of 6.5.
   - Broward College English as a Second Language Placement Test (LOEP). Applicants must be in the U.S. to take the LOEP test.
   - Successful completion of English IV at a US high school or university level English at an accredited US university with a grade of C or higher.
   - Students with sufficient English proficiency will be subject to placement testing processes and requirements as outlined in the catalog for new degree-seeking students.

   Please note: Students with sufficient English proficiency will be subject to placement testing processes and requirements as outlined in the catalog for new degree-seeking students.

   Note: In addition, students who are degree seeking, who do not place into college-level English on the LOEP test, will be required to take English as a Second Language (ESL) courses, which will not apply towards a degree. All ESL classes must be completed before starting any course work in a degree program.

4. Evidence of financial support
   - Confidential financial statement on the application must be completed and signed by the financial sponsor.
   - Bank statement, scholarship, or loan approval indicating that there are sufficient funds to cover the “total cost of attendance for the full length of the program of study” (tuition, fees, books, living expenses, transportation, and incidental expenses). Each dependent will require additional funds in the amount of $7,000 US dollars.

   Total Minimum Balance Required:
   - Associate Degree or Language Program: $22,500 US dollars.
   - Professional Pilot Program: $50,000 US dollars.
   - Bachelor Degree: $27,500 US dollars.

   Current cost per credit:
   - Please refer to the College Website for the current tuition and fees. (Fees are subject to change without notice)

5. Copies of a valid passport, current I-20, and visa, if applicable.

After Receipt of Application and Admission Documentation
Within two to six weeks after receiving an application the International Admissions Office will notify you regarding one or more of the following:
1. Proof of acceptance along with the I-20 eligibility form;
2. Proof of acceptance with a letter indicating the student must contact the International Admissions Office regarding his/her visa status;
3. A request for additional information, indicating which items are missing in your application packet;
4. A denial letter with an explanation for that decision.

Please be advised acceptance to the College does not guarantee a student visa by the US Embassy in your country; neither does it guarantee a change of status by the United States Citizenship and Immigration Services (USCIS).

International students obtaining the student visa in their country cannot enter the US more than 30 days before the first day of classes. Once in the US, students must show proof of the student visa before the on-campus advisement and registration process can begin. International Students are required to report directly to the International Student Advisor/ Counselor on the campus the student plans to attend for placement testing, advisement, and registration. Placement test scores will determine if the student should enroll in developmental courses in Math, Reading or English. These are credit courses that do not apply toward a degree.
After Admission, prior to class registration, applicants must show proof of health insurance. Health insurance is required during your entire program of study at Broward College.

Other Requirements
International students must make satisfactory progress towards their degree objective each term to comply with immigration regulations.

This includes the following:

- Successfully complete at least 12 semester hours during the fall and winter respectively.
- The summer semester is considered the student’s annual vacation unless it is their first semester or if special arrangements have been made with the international admission office.
- Successfully complete a minimum of 24 semester hours in one academic year.
- Maintain an overall 2.0 grade point average.
- Maintain lawful F-1 or M1 visa status with the USCIS.
- Students may not enroll beyond the expiration date of their I-20 form.
- Compliance with all the College rules and regulations.

NOTE:
Students receiving a W, WF, or WN as a final course grade or enrollment status are considered to be less than the required 12 credits. If the final grade or enrollment status received is correct, it is a violation of the Student Code of Conduct for students to ask faculty or any college official to alter a grade in order to remain in compliance with Federal Immigration Regulations. Reported incidences of this behavior can result in expulsion.

Students who do not meet the above regulations will not be permitted to register for subsequent terms and may be reported to the USCIS for non-compliance of the immigration regulations.

Florida Residency
Students in F-1 or M1 status are considered temporary residents of the United States and may NOT be deemed Florida residents for tuition purposes.

Federal Income Tax
International students must file an income tax return each year. Form 8843 is required if the student has not worked, and form 1040NREZ is required if the student has worked. International students should contact the local Internal Revenue Office (IRS) for further information. Forms can be obtained online at www.irs.gov.

All non-residents are subject to US federal income tax, unless exempted. Federal income tax may be withheld from US source funds students receive from the college such as scholarships or employment. Certain countries have tax treaties with the US where some taxes may be reduced or exempted and recouped at year end from the IRS. For participating countries, please visit the IRS website at http://www.irs.gov/pub/irs-pdf/p901.pdf.

Employment
In most instances, international students are not permitted to work off campus. On-campus employment is permitted. Please contact the International Student Advisor for additional information on employment.

Housing
The College does not provide or recommend student housing.

Financial Assistance
Non-US Citizens or non-eligible residents do not qualify for Federal or State Student Financial aid. International students may qualify for private loans as explained in the next paragraphs. The college does not recommend any one lender or another and does not provide assistance or give advice regarding private loans for any students enrolled or not enrolled at the College.

The College does provide an International Student Merit Scholarship. Students are eligible for this award after completion of 24 Broward College college-level credits with an overall cumulative GPA of 3.0. Please contact the International Admissions Office for more information.

International students may apply for private education or alternative loans to help pay for their educational expenses as long as there is a co-signer who is a US citizen or permanent resident. The guidelines to apply will vary depending on the lender, but citizenship and credit will be a requirement for many, if not all, lenders. Students are free to research ways to pay for College using all available resources afforded to them to determine whether they qualify for such. Please contact the lender of your choice for additional information.

Please note: Students using student loans as proof of financial support must provide loan approval prior to admission and all transactions regarding the loan are between the student and the lender. Admission cannot be approved prior to loan approval.

Social Security Number
If a student has a Social Security Number (SSN) or a Taxpayer Identification Number (TIN), federal law requires that it be furnished to the College so that it may be included on all documents filed by the institution with the Internal Revenue Service. Students who fail to furnish the College with the correct SSN or TIN may be subject to an IRS penalty of $50 unless the failure is due to reasonable cause and not to willful neglect.

Contact Information
Contact information for international student admission can be obtained from the College website at www.broward.edu/international.
HEALTH SCIENCE ADMISSIONS

Health Science Admission Requirements

Application to any Health Science program is through a supplemental application process. Students are not admitted to a health science program by declaring the health science program of study, and gaining admission to Broward College in general. A student may apply to a health science program after satisfying the requirements to be considered for a seat in the desired program, and within the program’s application period.

Health Science programs are considered “limited access”, which means there are a limited number of seats available each time a cohort of students is admitted to the program. Program acceptance is based on students satisfying the prescribed requirements for program application and meeting selection criteria. Each cohort selection is based on the strength of the applicant pool received in a specified application period.

To apply for admission to the College, students must do the following:
1. Complete the admission requirements to the College.
2. Submit electronic copies of transcripts for all previous college work (excluding Broward College)
3. Meet with an Academic Advisor to determine transferability of credits for previous credits earned
4. Complete all other requirements for admission outlined in the section titled Admissions.

Prior to applying and submitting their documentation for Admission to a Health Science program, students must:
1. Complete all developmental education coursework, if required, and pre-requisite requirements for the specific health science program of interest. Specific program admission requirements and application timelines for submitting a Health Science Limited Access application are accessible online at http://www.broward.edu/admissions/Pages/Health-Sciences-Admissions.aspx.
2. Complete a Health Science Limited Access Application for the desired Health Science program(s).
3. Submit the Health Science Limited Access Application to a Health Science Admissions Office located on the Central Campus in Building 19, Room 101; or on the North Campus in Building 46, Room 252. Each application for admission will incur a $20.00, non-refundable Health Science application fee payable online or any campus Cashier’s Office.
4. Activate the free BC student e-mail account. Information about setting up the e-mail account can be found online. All communication will be sent to this email address, including admission decisions.

Most Health Science programs require completion of Pre-Health Science Core requirements such as HCP 0001 (a 75 clock hour Health Career Core Curriculum continuing education course) and specific certificate courses:
1. HCP 0405 – Basic Life Support
2. HCP 0591 – HIV/AIDS
3. HCP 0601 - Domestic Violence
4. HCP 0692 – Prevention of Medical Errors
5. HCP 0522 - TB / OSHA / Hepatitis

These courses, as prescribed by the Florida Department of Education, Division of Applied Technology and Adult Education, introduce students to basic health care knowledge and skills. It is also recommended that students enroll in College Success Skills, SLS 1501 prior to entering any Health Science Program.

Selection Criteria

Admission selection is determined from a review of the applicant pool. Meeting the minimum admission requirements provides prospective applicants’ eligibility to submit applications for admission consideration yet does not guarantee acceptance into the program. Candidates, who earned the most points by weight, taking into consideration all requirements, are selected for admission. No exceptions are possible.

Number of Students Admitted

Most Health Science programs admit students once each year. Few programs admit each semester. The number of students selected to these limited access health science programs varies with the availability of clinical facilities, state licensing regulations, and other related criteria.

Notification of Admission

Admission decisions are accessible through students’ myBC account and clicking on the Limited Access Application Status icon. Admitted students to respective programs are notified of a mandatory preadmission meeting through their BC email. Upon notification of acceptance, students are required to acknowledge their attendance. Any student who does not attend the mandatory preadmission meeting will forfeit their seat offer.

A selected candidate may request a one time deferral to the next available term. Deferral request must be made no later than 30 days prior to the beginning of the term, through email from the student’s BC email address to healthscience@broward.edu or mailed to

Health Science Admission
225 E. Las Olas Blvd.
Fort Lauderdale, Florida 33301

Criminal Background Check and Drug Screening

Students applying to a Health Science program are subject to a criminal background check and drug screening which is required as a prerequisite to attending any clinical practicum while enrolled in the program. A student needs to be aware that participation and placement may be denied at a clinical agency based on the background or drug screening results and the clinical agency’s pre-employment screening policy.

Should such denial occur, the health science program cannot guarantee an alternative facility placement. Withdrawal from the program will be necessary if a student cannot meet requirements as they relate to the clinical site.

If a student is admitted to the College based on their background check and screening and is allowed to complete a clinical experience, it does not guarantee the student will be eligible to sit for the certification or licensing exam. Pursuant to Section 456.0635, Florida Statutes, effective July 1, 2009, health care boards or the department shall refuse to issue a license, certificate or registration and shall refuse to admit a candidate to sit for the examination if the applicant has been:
1. Convicted or plead guilty or nolo contendere to a felony violation regardless of adjudication of: chapters 409, 817, or 893, Florida Statutes; or 21 U.S.C. ss. 801-970 or 42 U.S.C. ss 1395-1396, unless the sentence and any probation or pleas ended more than 15 years prior to the application.
2. Terminated for cause from Florida Medicaid Program (unless the applicant has been in good standing for the most recent five years).
3. Terminated for cause by any other State Medicaid Program or the Medicare Program (unless the termination was at least 20 years prior to the date of the application and the applicant has been in good standing with the program for the most recent five years).

Nursing graduates taking the NCLEX-RN must be able to provide one or more of the acceptable forms of identification as described on the Testing Center’s website (www.pearsonvue.com/nclex). Temporary identifications or passports, not translated in English, are not acceptable forms of identification. For further information, see the Nursing Program section in the Catalog.

Note: The College reserves the right to change any of the policies at any time, including those related to admission and admissions criteria.
Testing, Course Placement, Advisement, Educational Planning, and Registration

INFORMATIONAL SERVICES

Testing, Course Placement, Advisement, Educational Planning, and Registration

Testing and Placement

Developmental Education Placement and Planning Program

Academic Advising

Educational Planning

Registration Options

Online Registration

Additional Registration Facts

TESTING, COURSE PLACEMENT, ADVISEMENT, EDUCATIONAL PLANNING, AND REGISTRATION

Placement Testing

As part of the admission process, all degree-seeking students (A.A., A.S., A.A.S.), including transfer students whose achievement level has not been certified, shall be assessed in writing, reading and mathematics to establish their communication and computation achievement levels.

Exempted students. Effective January 2014, students who entered a Florida public or charter high school beginning in the 2003-04 school year and thereafter and graduated with a standard high school diploma, beginning 2007 and thereafter, as well as active duty military personnel will be exempt from placement tests and can opt out of developmental education courses. These students can enroll directly into gateway and college-level courses. Students who fall into this exempted category are required to meet with an advisor to determine their career and educational plans.

Placement Test Options

Nonexempt, first-time-in-college students and those students who have not earned college credit or demonstrated readiness to another measure determined by the College, must present test scores, not more than two years old, on one of the following State-approved placement tests:

1. Enhanced ACT (American College Testing Program)
2. RSAT (Recentered SAT)
3. CPT (Computerized Placement Test, The College Board)
4. Postsecondary Education Readiness Test (PERT) as of March 2011.

Students' scores on E-ACT or RSAT may exempt them from placement tests; however, students who do not meet the required TABE scores, as defined by Florida State Board Rule, can begin coursework in a certificate/diploma program, but must complete remediation of skills prior to graduation from the program.

Remediation is available in all campus Learning Resource Centers. Once study is completed, students must retake the TABE and present passing scores in all areas to graduate with their certificate/diploma. TABE testing is available on each campus. Contact a campus Testing Center for TABE testing information or visit the College website.

Students who have previously completed developmental education instruction, passed college-level English and Mathematics courses, or held a degree, should see an Academic Advisor/Counselor for possible TABE exemption.

Developmental Education Placement and Program

Broward College is committed to the philosophy that all students should be offered the opportunity to achieve their maximum potential. To attain this goal, BC offers a Developmental Education Program which accelerated options that help students to remediate their skills deficits through short-term sessions or curriculum courses in Mathematics, English, Reading and English as a Second Language (ESL). Students are encouraged to choose a method of remediation that best suits their skills and abilities.

Placement in Courses

A student whose test scores meet or exceeds the stated cutoff scores in writing, reading and math, may enroll in college-level English and Math courses.

When a student’s score falls below the cutoff in one or more of these areas, the student must enroll in and successfully complete the appropriate developmental education course prior to enrolling in college level English or Mathematics courses until their competency in these academic areas has been certified. Students enrolled in developmental education courses may enroll in certain other college-level courses concurrently.

Transfer students’ placement will be based on the official evaluation of credit earned at previous colleges. Placement testing may be required.

Degree-holding students will not be required to undergo placement testing upon submission of an official transcript from a regionally-accredited college. However, ESL students may be tested for placement.

Students whose primary language is English and who have less than two years of non-ESOL English classes in the United States, must take the Levels of English Proficiency (LOEP) to assess English proficiency. Placement into Developmental Education Nonexempt students shall be required to take the placement test prior to enrollment in English or Mathematics courses or other courses that require English, Reading or Mathematics as pre-requisites.

TABE

Students enrolling in selected Vocational Certificate and Applied Technology Diploma programs are required to submit scores, less than two years old, from the Test of Adult Basic Education (TABE). Students who do not meet the required TABE scores, as defined by Florida State Board Rule, can begin coursework in a certificate/diploma program, but must complete remediation of skills prior to graduation from the program.

Placement into Developmental Education Nonexempt students whose placement scores do not meet the required college level must remediate their skills deficits thorough a variety of pre-enrollment options and self-advisement.

Placement in College-Level Courses for Exempt Students

Recent graduates of Florida Public and Charter schools, as indicated above, can opt out of developmental courses. The College requires students in this category to seek academic advisement prior to self-advising into College gateway or college-level courses. Students have the option of opting into developmental education courses if their skill deficits require such. Students who do not meet the required TABE scores, as defined by Florida State Board Rule, can begin coursework in a certificate/diploma program, but must complete remediation of skills prior to graduation from the program.

Students who choose the incorrect courses delay their time to completion of their program of study by having to withdraw from courses they cannot succeed in or repeated courses they fail due to incorrect placement and self-advisement.

Placement into Developmental Education Nonexempt students whose placement scores do not meet the required college level must remediate their skills deficits in English, math and writing before enrolling in college-
The developmental courses are designed to assist students in acquiring skills necessary for succeeding in college-level courses. While the courses do not carry credit toward graduation, students must pass the courses and exit the program at the end of the first term. Students who test into REA0017C are required to register for the course during their first term.

Students testing into these developmental education disciplines (ENC, MAT, or REA) are required to take SLIS1001, College Success Skills, during their first 9 credits. (This one credit course introduces students to BC and teaches students strategies and skills to help them succeed in college.). Students may substitute SLIS1001, Strategies for Success, for SLIS1001.

They require the developmental education students who are seeking degrees and have not previously attended college. Students must meet with an Academic Advisor in any Academic Advising Office before registration for any selected courses and must be present at the class begins if the course is not full.

During registration periods, students may add courses until the actual schedule changes and during programs offered by private providers of instruction. Students have the option of pursuing developmental education instruction through programs offered by private providers of instruction. Students interested in this option should obtain additional information from any campus Student Affairs office. Students exercising this option must retest and pass the appropriate sections of the PERT, the Postsecondary Education Readiness Test, prior to enrolling in college-level courses.

Note: Private providers are not affiliated with BC and the College neither endorses their courses, their services, or their students.

English as a Second Language (ESL)

English is a Second Language Program for the College.

The following restrictions for course sequencing will apply and increase a student’s chances for academic success:

Students who test into two or more developmental education disciplines (ENC, MAT, or REA) are limited to 12 credits in a full term and seven credits in a summer term.

Students are required to register for the developmental education courses during their first term. Students who test into REA0017C are required to register for the course during their first term.

Students are required to take the highest level of developmental education (REA0017C) before registering for a developmental education math course (MAT1018 or MAT1028).

Students testing into at least two developmental education disciplines (ENC, MAT, or REA) are required to take SLIS1001, College Success Skills, during their first 9 credits. (This one credit course introduces students to BC and teaches students strategies and skills to help them succeed in college.).

Students who test into REA0017C are required to register for the course during their first term.

Students are required to take the highest level of developmental education (REA0017C) before registering for a developmental education math course (MAT1018 or MAT1028).

Students testing into these developmental education disciplines (ENC, MAT, or REA) are required to take SLIS1001, College Success Skills, during their first 9 credits. (This one credit course introduces students to BC and teaches students strategies and skills to help them succeed in college.). Students may substitute SLIS1001, Strategies for Success, for SLIS1001.

Students entering BC, except those who test into the ESL Program, must successfully complete Level 2: EAP0200C, EAP0220C, and EAP0285C before registering for a developmental education math course (MAT1018 or MAT1028).

Advise the new advisement statement from an Academic Advisor.

To further inform and support their students, contact our Advisors and Counselors:

 Academic Advisors and Counselors are available on each campus to register and counsel students in the following areas:

• Curricular and educational planning.
• Selecting appropriate courses for major degree.
• Utilizing self-advocating resources.
• Strategies that promote academic success, such as study skills, time management, test-taking, decision-making, and communication skills.
• Preparation for university transfer or the workforce.

For further information and support, students may contact our Advisors and Counselors:

TOEFL score. Students will be placed in ESL Program courses based on the results of the ESL placement test and writing sample.

Course Load for Visa Students

Visa students must take a full course load minimum of 12 credits or more in order to maintain a student visa. During their first and second semesters at Broward College, students should concentrate on the ESL Program and take no more than five credits in any other course in the University's degree requirements for graduation will be complete. Academic Advisors and Counselors are available to assist students with the development of an educational plan based upon personal and course work objectives, test scores, previous high school and college backgrounds, and current lifestyles. A recommended course of study is developed for each student to use as a guide for course selection while attending BC.

All students are required to have an educational plan prior to the end of their second enrolled semester.

Registration

Continuing students may register online or in person at the campus Registration Offices using their assigned student ID and PIN.

Student ID Number

A student ID is a system identifier that is used throughout the BC student information and web-based systems.

PIN Number

The personal identification number (PIN) is the student’s access into their “myBC” student portal at Broward College. The initial PIN is assigned at enrollment. The birth month and year are used to set the birth month and year: MMYYYY. It is important that the PIN number is not revealed to anyone. It is suspected that the PIN is not secure, change the PIN number immediately.

Online Registration

Students can register online by following these easy steps. From the Broward College home page:

1. Enter the student ID and PIN number at "myBC." (Your student ID and PIN number is initially set to the birth month and birth year: MMYYYY.)
2. Click on registration.
3. Click on Add/Drop
4. Select a term.
5. Select courses by course number, reference number(s) or open classes by clicking on the appropriate circle.
6. Select a class then click “reference number” To remove a class, click the “remove” button.
7. When finished selecting classes, click “Save” to complete registration.
8. Print the schedule and payment information, click the “Logoff” link.

Additional Registration Facts

Term Schedule of Classes

Term schedules are available online via myBC.

Registration Dates

Registration dates are published online for all students and are also available via myBC for current students.

Schedule Changes

During the first one to two weeks of each term, students may add courses until the actual course begins if the course is not full. After the term begins, students may “drop” courses until the last day of the term. Students who drop after the last day of the term may not “drop” courses until the end of the term. After the term begins, students may “drop” courses until the last day of the term.

www.broward.edu
Anytime thereafter, students may “withdraw” from courses until the last day of the published “withdrawal” period at the 60% point in the term. After 100% date, students are considered to be enrolled and responsible for the students.

Student financial aid is based on course enrollment; therefore, any changes in enrollment through the 60% published date on the College calendar will impact a student’s financial aid award.

Registration Holds

A registration hold may be placed on a student’s record that will prevent the student from registering until action has been taken to resolve the issue. If students are unable to register online, it is their responsibility to contact the campus registration office, or other relevant office, promptly to determine the cause of the problem and resolve it in a timely manner. Students may see what registration holds, if any, they may have by logging into their “myBC” account. Typical holds include missing transcripts, unpaid student fines, discipline or other violations, incomplete records, academic warning, probation, and suspension or a requirement to meet with a college official prior to registration.

Auditing a Class

Auditing a class allows students to enroll in a class for no credit. No grade is awarded for audited courses. The transcript will indicate a grade of “X.” Students must contact the instructor to learn of any requirements regarding attendance, class participation and assignments. A student may only change to or from an audit status during the designated drop/add period for each term. Changing from credit to audit may be done with the instructor’s approval through the scheduled last day to change from credit to audit as listed in the academic term calendar. Audits count as an attempt if enrolled after the drop/add period.

Course Withdrawals

All courses removed from a student’s schedule before the 100% refund date are considered “dropped” courses and will not be indicated on the students’ official transcript. Schedule changes after the 100% refund date are considered withdrawals and a (W) will appear for withdrawn courses. Students can initiate course drops or withdrawals online. If a student wants to withdraw from a course or from the College they can also see an Enrollment Services Officer on any campus. All withdrawals that students initiate are considered “official” withdrawals. The last day to withdraw without grade penalty is on or before the 60% point in any given term or session. Withdrawals after that date are not allowed.

Students who stop attending class prior to the 60% point in the term and do not withdraw themselves, faculty may “unofficially” withdraw students from the course for non-attendance or failure of adhering to their attendance policy. Students should read their instructor’s course syllabus for the grading and attendance policy. Faculty may record a grade of F for non-attendance or a W. Both official and unofficial withdrawals and F grades for non-attendance are acknowledged as valid by the College and have an impact on the students’ record. Students’ financial aid will be impacted by any change in enrollment status resulting in W, F and other unsatisfactory progress grades. See the Financial Aid Section of this catalog and College Policy for additional guidelines.
STUDENT SERVICES

Student Fees and Policies ................................................................................................................. 42
Fees, Payments, and Refunds ............................................................................................................... 44
Tuition Exemptions ............................................................................................................................... 45
Tuition Fee $91.79  Florida Residents
Out-of-State Fee $84.72
Student Activities Fee 9.18
Student Financial Aid Fee 23.85
Capital Improvement Fee 50.10
Parking and Transportation Access Fee 4.00
Technology Fee 28.83
Total $384.67

Non-Residents
Tuition Fee $75.40
Out-of-State Fee 217.50
Student Activities Fee 7.50
Student Financial Aid Fee 15.05
Capital Improvement Fee 19.60
Parking and Transportation Access Fee 4.00
Technology Fee 5.75
Total $363.00

Supplemental Continuing Workforce Education
Per credit hour:
Tuition Fee $92.16
Technology Fee 4.45
Total $96.75

Associate Degree Programs and Technical Certificates
Per credit hour:
Florida Residents
Tuition Fee $75.40
Student Activities Fee 7.50
Student Financial Aid Fee 3.75
Capital Improvement Fee 11.50
Parking and Transportation Access Fee 4.00
Technology Fee 3.75
Total $105.90

Non-Residents
Tuition Fee $75.40
Out-of-State Fee 217.50
Student Activities Fee 7.50
Student Financial Aid Fee 15.05
Capital Improvement Fee 19.60
Parking and Transportation Access Fee 4.00
Technology Fee 5.75
Total $325.50

Vocational Certificate Programs (PSAV)
Per credit hour:
Florida Residents
Tuition Fee $69.90
Capital Improvement Fee 5.45
Student Financial Aid Fee 3.45
Total $82.25

Non-Residents
Tuition Fee $69.90
Out of State Fee 209.75
Capital Improvement Fee 17.95
Student Financial Aid Fee 13.95
Technology Fee 13.95
Total $325.50

Additional Course Fees
Students who request a duplicate diploma are assessed a fee for each duplicate diploma.

Tuition and Fees
Tuition charges vary depending on the program you choose. Bachelor degree programs have a higher per credit hour rate than associate degree programs. Vocational programs certificate programs have the lowest per credit hour tuition rate.

Baccalaureate Degree Programs
Fees listed below are shown as a per credit hour rate:

Florida Residents
Tuition Fee $91.79
Student Activities Fee 9.18
Student Financial Aid Fee 4.59
Capital Improvement Fee 12.74
Parking and Transportation Access Fee 4.00
Technology Fee 15.05
Total $126.89

Non-Residents
Tuition Fee $75.40
Out-of-State Fee 226.40
Student Activities Fee 7.50
Student Financial Aid Fee 15.60
Capital Improvement Fee 19.60
Parking and Transportation Access Fee 4.00
Technology Fee 15.05
Total $384.67

Insurance     $9.25

Health Science Fees
In addition to special course fees for laboratory and clinical courses, all Health Science students are required to pay the following at the time of registration for each academic year.

Health Science Education Accident Insurance $7.81
Health Science Education Liability Insurance $9.25

Academic Transcript Fee
Students may order official academic transcripts online through their myBC account. The following fee is assessed for each transcript.

Official Transcript Fee $5.00/transcript

Duplicate Diploma Fee
Up on completion of degree requirements, students are issued a diploma. Students who request a duplicate diploma are assessed a fee for each duplicate diploma.

Fee Information
Fees must be paid by the assigned fee payment due date. At the time of class payment, the student will be required to pay any obligations (such as library fines and parking fines) or receivables in full.

Payment can be made with cash, credit card (Visa, MasterCard, Discover, and American Express), debit card, and check or money order made payable to Broward College.

There are three ways to remit payment:
• By credit card on the web
• By check or money order mailed to the Broward Collge
• By cash, check, money order, debit card, or credit card in person at a campus Cashier’s Office. The authorized user must be present for credit card and debit card payments.

Detailed instructions are on BC’s home page.

Checks or money orders for payment of student fees must be made payable to Broward College and include the student’s identification number. Eligible checks will be converted to electronic debit transactions. Checks and money orders must be drawn on a U.S. bank in U.S. dollars. Payments in non-U.S. funds and drawn on non-U.S. banks will be returned unprocessed. Counter (starter) checks are not accepted.

Checks and money orders may be mailed to:
North Campus Cashier’s Office
1000 Coconut Creek Blvd
Coconut Creek, FL 33066

Tuition Payment Plan
Broward College has partnered with Nelnet Business Solutions to offer a tuition installment plan to help students afford the cost of their education. Students may enroll in a tuition payment plan for any term in BC, however, a new plan is required each term. Plan ranges from a zero to 100% down payment with 2 to 9 monthly payments automatically processed on the 20th of each month. Students who have not made payments by due date will be assessed an interest charge. A negotiable non-refundable enrollment fee is due at the time of enrollment in the tuition payment plan. Students must be registered for courses and provide a method of payment (credit card or checking/savings account) that will be used for the enrollment fee, down payment and monthly payments.
Florida Pre-Paid via the web but later elect not to use it must call or visit a
available. From this screen the student may opt to apply Florida Pre-
term, a web screen will alert the student that Florida Pre-Paid coverage is
If the external agency revokes the authorization or subsequently denies
When a receivable or obligation balance is due, a financial hold is
immediately generated on the student’s record. This financial hold may
authorized to restrict the release of transcripts, the awarding of diplomas
students will not be
will not be able to register until the debt is paid in full.
Third-Party Authorization
received for the 100% refund date. The academic record or registration history will not be removed even if the student withdraws from classes prior to the 100% refund date.
Refund of Fees before the 100% refund date
Length of Class
8 weeks or longer
Less than 8 weeks (but more than once)
Class meets only once
Deadline to drop with 100% refund
During drop/add period
Prior to the second class meeting
Prior to the first class meeting
When students drop their courses before the 100% refund date, the College will refund all fees paid, except application fees, before the 100% refund date of the course, but not later than the last day to withdraw from the course and be credited toward the student’s cumulatively earned credits. If a student does not withdraw from a course, the student will be held responsible for all costs. If a student withdraws from a course before the deadline to drop with 100% refund, the refund of fees will be prorated based on the percentage of the term that remains after the student drops the course.
Refund Processing
Students who have dropped their courses within the drop period do not have to contact the Cashier’s Office to receive a refund. Through an automated process, refunds will be processed approximately two weeks after the final drop/add date, which is generally seven (7) days after the start for each semester.
If the current authorization is not presented, the student’s account will not
required to register on a space-available
employees may have tuition and course fees waived for a maximum of 6
credit hours per term and are required to register on a space-available
basis as noted in the online Academic Calendar and College catalog. State
employees are exempted as well as book charges. The exemption is for a maximum
than he/she earned, based on the withdrawal date from classes, federal law
is processing for non-academic reasons after the 100% refund date. Students who are responsible for paying any remaining balance due will be billed. Florida Pre-Paid credit is limited to the amount of credit hours remaining on the student’s plan. Students are responsible for paying any remaining balance
students who are called to or enlisted in active military duty, death in the immediate family, and an immediate family member (father, mother, spouse, sibling, or child), call to serve in or enlistment in the service of the Armed Forces of the United States, or active duty status and eligibility for tuition assistance (TA) as authorized by the Department of Defense for all branches of the Armed Services or by the Department of Defense for active duty military personnel and covered
if student drop their courses. The registration will be cancelled and
for non-attendance. Withdrawing or dropping courses could result in termination of benefits and/or owing money to VA and Broward College. It is the veteran’s responsibility to notify the appropriate Veteran’s Coordinator about withdrawal of any class at any time during the term. Veterans should register only for the courses which can be successfully completed. Dropping courses can affect a student’s enrollment eligibility and change the award resulting in an overpayment. This overpayment will cause the student to owe money.
Pursuant to Florida Statute 1008.04 students who are called to or
in active military in the United States armed forces service shall be permitted the option of either completing their courses at a later date (after an “I” indicating an Incomplete and be required to complete the coursework within the designated period), or canceling their course within the designated period for a 100% refund. Veterans who receive financial aid must adhere to the withdrawal policies affecting all financial aid students, including the Federal Return of Title IV Funds policy applies to any student who officially or unofficially withdraws from all Broward College classes during a term in which the student is receiving any form of Title IV aid. This aid includes the Pell Grant, Supplemental Educational Opportunity Grant, Federal Direct Student Loans; Subsidized and Unsubsidized, and PLUS Loans for Parents.
Each faculty member sets the guidelines for attendance (physical presence) and participation (academic related activities either online or in person), which is outlined in the faculty’s syllabus. It is the student’s responsibility to attend classes and participate in the same term by the
If renewal is in the class, students are agreeing in adile of that attendance
Refund of Fees to Veterans, Active Duty and Vocational Rehabilitation Students
Veterans who receive financial aid must adhere to the withdrawal policies affecting all financial aid students, including the Federal Return of Title IV Funds policy applies to any student who officially or unofficially withdraws from all Broward College classes during a term in which the student is receiving any form of Title IV aid. This aid includes the Pell Grant, Supplemental Educational Opportunity Grant, Federal Direct Student Loans; Subsidized and Unsubsidized, and PLUS Loans for Parents.
Veterans who receive financial aid must adhere to the Federal Return of Title IV Funds Policy. Federal Return of Title IV Funds policy applies to any student whose enrollment is ceased as a result of withdrawing from all or part of a term or if he/she is receiving any form of Title IV aid. This aid includes the Pell Grant, Supplemental Educational Opportunity Grant, Federal Direct Student Loans; Subsidized and Unsubsidized, and PLUS Loans for Parents.
Tuition Exemptions

Florida Pre-Paid Program
Students who are planning to enroll in graduate school may apply for Florida Pre-Paid coverage. Florida Pre-Paid covers all course fees and books that can be billed. Florida Pre-Paid credit is limited to the amount of credit hours remaining on the student’s plan. Students are responsible for paying any remaining balance...
Foster Care Board Exemption
A foster care student may have all matriculation and tuition fees exempted for a maximum of 32 credit hours per year. The exemption is for two years or four semesters, but can be extended for college preparatory courses. The student must apply for financial aid.

Homeless Fee Exemption
Any student who lacks a fixed, regular and adequate nighttime residence or whose primary nighttime residence is a public or private shelter designed for, or not ordinarily used as a regular sleeping accommodation for human beings shall be exempt from tuition and fees (see F.S. 1009.25(2)(e) and Section 239.117, Florida Statutes.

Linkage Institute
According to Florida Statute, Chapter 288.8175, linkage institutes between postsecondary institutions in the state of Florida and foreign countries allow designated foreign students to study in Florida at any State University or College. Students may receive in-state tuition rates enrolling in the Florida-Israel Institute.

Purple Heart/Superior Combat Decorations
According to Florida Senate Bill 122 passed July 1, 2006, state universities and community colleges will waive tuition for recipients of the Purple Heart or other combat decoration superior in precedence who:
- are enrolled as full-time, part-time or summer-school students in an undergraduate program that terminates in a degree or certificate;
- are currently, and were at the time of the military action that resulted in award of the Purple Heart or other combat decoration superior in precedence, a resident of this state; and
- submit to the state university or the community college the DD-214 form issued at the time of separation from service as documentation that the student has received a Purple Heart or another combat decoration superior in precedence.
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Student Financial Aid

Introduction

Student-specific aid is available for all students who complete the Free Application for Federal Student Aid (FAFSA) and are eligible to receive it. Most aid programs (Federal, State, Private scholarships and third-party) require a student to apply by step by step process most often determined by the agency or department providing the aid. The Office of Student Financial Aid provides information and assistance to students who seek to apply and understand financial aid to support their enrollment at Broward College. From application to awarding, the Student Financial Aid Office ensures compliance with applicable laws, regulations and policies that govern federal, state, institutional, and foundation programs. The College provides financial assistance for all campuses and centers during regular College operating hours.

What is Financial Aid?

Financial aid is assistance from federal, state, private, third-party payers (VA, DO, Vocational Rehabilitation, Workforce One, tuition reimbursement, etc.) and institutional sources that can be used to assist students with direct educational costs (tuition, fees, textbooks and supplies) and indirect educational costs (general living expenses) while attending college.

How Much Aid?

The amount of Federal financial aid is often determined by the amount of need based on a Federal or merit based on academic progress. State merit-based aids such as Bright Futures is based on academic eligibility while in high school and then continued academic merit eligibility while in college. Federal aid is composed of non-need based aids such as Pell Grants, Federal Direct Unsubsidized Loans, Federal Direct Subsidized Loans, Federal Perkins Loans, Federal Direct PLUS Loans for Parents/Grad/Prof, Federal Direct Stafford Loans, Federal Direct Grad Plus Loans, Federal Direct Consolidation Loans, Federal Direct Stafford or Federal Perkins PLUS consolidation loans. State need-based aids such as Florida Student Assistance Grant, Florida Bright Futures – State Merit-based aid, Florida Student Assistance Grant, Florida Bright Futures – State Merit-based aid and Florida Student Assistance Grant, Florida Bright Futures – State Merit-based aid are often awarded based on student enrollment status. Federal aid is determined by the following credit hours thresholds:

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Aid Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time</td>
<td>12 credits</td>
</tr>
<tr>
<td>½-time or Part-time</td>
<td>6 credits</td>
</tr>
<tr>
<td>Less than ½-time</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

Information Tip: When making changes to their schedule by adding and dropping classes prior to disbursement of aid, the awarded amount fluctuates and can change students' payment status.

Types of Aid

Financial aid can be in the form of grants, scholarships need or merit and student loans. Examples of aid are as follow:

Grants

- Pell – Federal need-based aid
- Federal Supplemental Educational Opportunity Grant – Federal need-based aid
- Florida Student Assistance Grant – State Need-based aid.
- Federal Direct Loan – Federal need-based aid

Scholarships

- Foundation – Need and merit-based
- Active Duty Personnel – Eligible in-service military personnel
- TA (Tuition Assistance) – Branch of Service determined**
- Veterans Work Study (VA) – VA determined
- Various GI Bills – Eligible veterans based on service.

Loans

- Federal Direct Subsidized* – need based
- Federal Direct Unsubsidized* – need not based, but based on school specific eligibility
- Parent Loan for Undergraduate Students
- Grad PLUS Loan
- Direct Stafford Loans for Undergraduate Students
- Direct Stafford Loans for Graduate Students

Eligible students may expect to receive a financial aid award that will include a combination of sources.

Professional Judgment

Financial aid administrators are allowed per Federal regulations to make professional judgment decisions for students under certain, extenuating circumstances including:

- Dependency Overrides - Dependency overrides are done on a case by case basis when circumstances between the parent(s) and the student are compromised. The override requires extensive documentation.
- Income Adjustments - Income adjustments are processed on a case by case basis when the financial information requested on the FAFSA does not truly reflect the current financial situation in the household. Extensive supporting documentation may be required. The income adjustment requires extensive supporting documentation.

Further information and forms can be found at www.broward.edu/aid.

Packaging and Awarding Aid

Students cannot be awarded aid until verification documents are submitted, the documents are reviewed, and corrections are sent to the Financial Aid Office. Once the College receives complete data, then aid can be awarded and posted on students’ accounts. When aid is awarded, students can view their awards on myBC. Financial aid adjustments by enrollment status, including changes in award amounts, may occur at any time the student exceed their Eligibility Limit (LEU) federal aid can no longer be received. Effective July 2013, new federal student loan limits are mandated to the Broward College and at any time a student exceed their Eligibility Limit (LEU) federal aid can no longer be received. Effective July 2013, new federal student loan limits are mandated to the Broward College.

Maintaining Financial Aid Eligibility

Federal guidelines require that students remain eligible for financial aid throughout their enrollment in a post-secondary degree program. There are several factors that determine whether a student can continue to receive Federal student aid. Students and parents are encouraged to file tax returns annually after summer grades are posted.

Details in addition to the following are written in Broward College policies 6His2,25, Academic Standards of Progress for all students and 6His2,51, Student Financial Aid Eligibility for specific to those students who receive Federal and State student aid.

Qualified Standard

Continued eligibility for Federal student aid requires students to achieve a C or better grade point average. State aid programs may be higher than the minimum standard noted below.

- Students must earn a 2.0 semester grade point average (GPA) and/or cumulative program GPA.
- Students who fail to earn the required GPA will be given the initial term of enrollment plus more, equivalent to one academic year or 12 months, to raise their GPA. Students may be required to borrow student loans to the College; however, students must also meet specific qualification requirements to remain qualified for Title IV Federal aid funds.

When a student does not meet any of the above criteria, the student is considered dependent and must provide parental financial information as well as their own when completing the FAFSA.

Financial Aid Application Process

Broward College strongly recommends that all students apply for financial aid regardless of their perceived eligibility to receive it.

Apply for Financial Aid:

Complete the 2013-14 FAFSA online at www.fafsa.gov. Students should provide the Broward College School Code 001500 when prompted for the school selection. Students and parents are encouraged to file tax returns before the FAFSA is completed and, in order to submit the IRS Data Retrieval Tool with the FAFSA, the PIN allows a student to receive the FAFSA.

TIP: Students should also carefully complete the planned housing code on the FAFSA when they list the schools to receive their data.

Students and parents need a Department of Education Personal Identification Number (PIN) to electronically sign the FAFSA. A PIN, may be obtained at www.pin.gov. The PIN also allows a student to make changes and view the application status.

After FAFSA Completion and Submission to the Federal government, students receive an email message from the federal processor confirming receipt of the application and provides a Student Aid Report (SAR), usually within 48 hours. The federal financial aid office will receive the same information in the form of an Institutional Student Information Report (ISIR). The College uses the information to determine financial need and eligibility for grants, scholarships, loans, and work-study. Students should review the SAR for accuracy and make necessary corrections.

Information Note: Students must apply for aid each academic year and are encouraged to apply early. The Federal application period for the Free Application for Federal Student Aid (FAFSA) opens on January 1 of each year and continues until late October of the same year. Students file the FAFSA online at www.fafsa.gov. All information provided on the FAFSA is subject to verification - accuracy is important.

Continuing students who complete their FAFSA and submit all required documents by May 30 will have financial aid awarded by the tuition due date. The College focuses on financial aid processing for new students beginning June 1 of each year.

Verification

The federal government randomly selects student financial aid applications for so-called verification. The Federal government has outsourced Broward College as a Quality Assurance (QA) school. With this distinction the College is authorized to select students for verification in addition to students those selected by the Federal government in or those selected based on specified criteria. The College follows the verification guidelines recommended by the Federal government. In both cases, this process mandates that the College compare the financial information contained on the FAFSA to the student’s tax returns. To determine if additional documentation is required, students should log on to myBC and click on financial aid and application status. Red flags indicate (verification) and documentation is required, students should log on to myBC and click on Financial Aid and Application Status.

Verification:

- Verification is the process that mandates that the College compare the financial information contained on the FAFSA to the student’s tax returns.
- Students are encouraged to receive the IRS Data Retrieval tool to verify income information. Students who are not selected for verification will be required to submit an IRS Tax Return Transcript to clear the verification flag. Copies of tax returns will no longer be acceptable for verification. If the IRS Data Retrieval Tool is used, the IRS Tax Return Transcript is not required.

Eligibility Criteria

When completing the FAFSA, students must answer dependency status questions to determine eligibility. Students who are considered dependent must provide specific financial information to determine dependency status. Students are considered dependent unless they can demonstrate that they are independent based on the following criteria provided in

Criteria for being determined independent on the FAFSA includes:

- Age 25 or older
- Married
- Seeking a graduate degree
- Full-time student in college
- Dependent children or children
- If, since age 18, a student is:
  - A ward of the court/orphan/legal guardian
  - A homeless or at-risk homeless youth
  - In foster care
  - A student attended school and paid tuition and fees on his/her own

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Students must make progress toward completing their academic degree program requirements at a pace that will allow them to complete within 150% of the normal time required for the program. Quantitative measures (attempted credits and credit time frame to complete their prescribed program of study) must be achieved at the time of review. The College will suspend or cancel financial aid if the student fails to meet their academic progress requirements within the required timeframe. If, after the time that the student has been suspended or terminated, the student demonstrates more flexibility early in their academic career to deal with struggles of College transition at the freshman level or entry into college-level coursework after completion of preparatory/developmental courses, such as Math and English, the student will not be limited to a 150% timeframe. Students who fail to meet the requirements for satisfactory academic progress will lose eligibility for all federal Title IV aid programs, as well as for any institutional Title IV aid, and must begin repaying loans with interest in a specific time period after a period of non-enrollment. Repayment may be deferred while students are attending classes at least half-time. Students whose enrollment changes to less than half-time status, cannot receive additional student loans, and must begin repayment within 60 days. Students who want to utilize loans to attend school must have a completed financial aid file.

Application Process

Students must log onto www.studentloans.gov to complete Entrance Counseling and a Master Promissory Note (MPN) to complete the student loan application process.

Loan Disbursement Timeline

Loan funds cannot be disbursed until the Master Promissory Note (MPN) and entrance counseling are completed.

Types of Loans

Federal student loans are need and non-need based.

Direct Subsidized Loans

Based on financial need. The federal government pays the interest on the loans while students are in school at least half-time, during grace periods, and during authorized periods of deferment.

Direct Unsubsidized Loans

Not based on financial need. Students are responsible for the interest that accrues from the date of the first disbursement forward. Interest can be paid while students are in school or it can be postponed until repayment. Interest will be capitalized and added to the principal amount, increasing the balance on which interest accrues daily. Borrowers regular the interest and must begin repaying unsubsidized loans.

Student loans may refer to the College website www.broward.edu for more information related to the guidelines relative to awarding of unsubsidized loans.

Direct PLUS Loans

Parents are also available to parents of dependent students. Parents may be eligible to borrow up to the total cost of attendance all federal aid received. Parents are eligible for the PLUS loan if they meet the eligibility criteria and agree to the terms and conditions of the PLUS loan. Parents must complete a FAFSA.

Florida Bright Futures Scholarships

Florida Bright Futures Scholarships reward Florida high school students with high academic achievement. Students can work up to 20 hours per week depending on eligibility. Students can apply for the campus financial aid office to determine if they are eligible, and if so, can research job openings on the web at: http://www.broward.edu/financialaid/Pages/Work-Study.aspx

Funds are limited and award amounts are based on individuals who complete their financial aid file early. Students must also complete an employment application prior to beginning employment. Students who elect to work in a Federal Work-Study position on campus can exclude the income earned through work-study from the adjusted gross income (AGI) when completing the FAFSA. This can benefit students who are trying to manage their aid eligibility. Students should weigh the difference between their financial aid file. Students must also complete an employment packet prior to beginning employment. Students who elect to work in a Federal Work-Study position on campus can exclude the income earned through work-study from the adjusted gross income (AGI) when completing the FAFSA. This can benefit students who are trying to manage their aid eligibility. Students should weigh the difference between part-time off campus jobs with on-campus jobs.

American Roads / Counts

This program is funded through the Federal Work-Study Program dollars. It offers students the opportunity to tutor in Math and English, and math in local elementary and middle schools. Students may work a minimum of 20 hours per week. Security clearance is necessary.

Florida Work Experience Program

Provides eligible students who are Florida residents an opportunity to work in the public school system as teacher aides or tutors. Funds are limited.

VA Work Study

Applicant for Work Study Allowance which can be downloaded at http://www.vba.va.gov/vaforms/10-0083-A.pdf. Students must apply along with a copy of their resume to Veterans/broward.edu. Applications take approximately 2 weeks to process. Students who elect to work in a Federal Work-Study position on campus can exclude the income earned through work-study from the adjusted gross income (AGI) when completing the FAFSA. This can benefit students who are trying to manage their aid eligibility. Students should weigh the difference between part-time off campus jobs with on-campus FWS positions.

Steady Income / Counts

This program provides students an opportunity to work in the public school system as teacher aides or tutors. Funds are limited.

Veterans

Students who have served in the U.S. armed forces may be eligible to receive veterans' educational benefits to assist with educational expenses as well Title IV aid funds.

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www.broward.edu
Veteran’s benefits may also extend to a spouse and child dependents of disabled veterans. Veteran’s services staff at Broward College act as liaisons between the students and the Veterans Administration by offering the following:

- Submission of completed forms to the Veterans Administration
- Certification of attendance
- Current news and information

The College has veterans support services on each campus to further assist veterans with their transition to college. Veterans must submit a Veterans Certification Request Form (VCERT) in order to be certified with the Veterans Administration. Broward College is an approved site for veterans training which includes pursuing all degrees as well as some certificate programs. Veterans are encouraged to apply for experiential learning credit for training received in the Armed Forces in order to accelerate their educational goals. The Broward College Admissions Office will grant credit for evaluated military education that has been recommended as suitable for postsecondary credit by the American Council on Education Guide. Veterans requesting experiential learning credit for military training must request a transcript:

JST – Joint Services Transcript-
https://jst.doded.mil/smart/dodMandatoryBannerForm/submit.do

Army, Coast Guard, Marine Corps and Navy: Active duty, Reserve and Veterans are eligible for JST transcripts. For more detailed information, see the accelerated learning section of this catalog.

Post 9/11, Chapter 33 Benefits
Chapter 33 benefits pay tuition at the in-state rate. Veterans are responsible for the out-of-state fees, and are encouraged to apply for other types of financial aid to cover the additional cost.

Veterans receiving Post 9/11 benefits and taking only distance education courses receive tuition and fees benefits, are eligible for the basic housing allowance (BAH) at the national average of $684, which is subject to change by the Veteran’s Administration. Housing allowances cannot be paid until the veteran begins class attendance.

Veterans who have submitted a VCERT will be certified by the Broward College Veterans Coordinator. Certification includes attendance as well as academic progress. More detailed information on attendance requirements and other necessary paperwork may be found on the Broward College website. Further, veterans needing additional assistance should visit the GI Bill website or call toll free 1-888-GIBILL1 (1-888-442-4551) to speak with a Veteran’s Benefits Counselor.

Veterans Billing Policy
Veterans receiving benefits must complete all coursework each term to avoid being billed for withdrawing or being dropped from classes. If a veteran student does not attend class after the drop and add period in each session, the student will be withdrawn from classes or receive a failing grade for non-attendance. Withdrawing from or dropping courses could result in termination of benefits and/or owing money to the VA and Broward College. It is the veteran’s responsibility to notify the Veteran Coordinator before withdrawing from any class at any point during the term. Veterans should register only for the courses which can be successfully completed.

Further, Veterans who receive Title IV financial aid must adhere to the withdrawal policies and the Federal Return of Title IV Funds policy.

Active Duty Military
Active duty refers to all personnel serving in a full-time capacity in one of the branches of military service in the United States. Broward College provides active duty students that are serving in the U.S. military, an in-state tuition rate.

The College accepts military education benefits for active-duty service members, eligible reservists, of the armed forces. Tuition Assistance (TA) is a military benefit that pays the cost of tuition and some fees. These programs are administered and sponsored by the specific branch of the military.

To use military tuition assistance at Broward College, active duty students must submit a copy of the tuition assistance voucher or letter specifying what the military will pay and how the College should invoice the military to receive funds.

The active duty student is responsible for obtaining the correct form and submitting it to the Military Enrollment Coordinator and Cashier’s Office. Forms can be emailed to military@broward.edu.

The Cashier’s Office will apply tuition coverage once the voucher is received and classes for the student will not be dropped while BC waits to receive payment from the military.

It is the student’s responsibility to notify the military and Broward College’s Bursar’s office of schedule changes in circumstances where the military pays based on the student’s scheduled enrollment. Military students must pay any charges not covered by tuition assistance by the College’s established due date to avoid late fees and holds for balances due. Military personnel are encouraged to file the FAFSA as well.
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**Student Activities**

**Student Life**

Student Life activities are available to all currently enrolled Associate and Baccalaureate students. Students who wish to participate in Student Life activities and services must hold a valid BC student ID.

Student Life offices provide oversight, information, and support for student clubs, student government, student development and leadership, and new student orientation. In addition, students can get information and services related to bulletin board approval, student ID card services, opportunities for campus and community volunteerism, and campus events.

Student Life also coordinates intramural/recreational sports, which are comprised of a variety of competitive athletic leagues and tournaments. To learn more about activities/programs, contact a Student Life Office at any of the following locations or visit student life online at http://broward.edu/studentlife/.

- A. Hugh Adams Central Campus  
  Building 19, Room 106  
  954-201-6736
- North Campus  
  Building 46, Room 153  
  954-201-2325
- J. A. Samuel South Campus  
  Building 68, Room 189  
  954-201-8316
- Willis Houlcombe Downtown Center  
  Building 55, Room 107  
  954-201-7377
- Pines Center  
  Building 100, Room 119  
  954-201-3630

**Student Organizations**

Student organizations, clubs and programs contribute to the total experience of the college student. Operating under the leadership of the Campus Dean of Student Affairs and the Campus Director of Student Life/Development, student organizations encourage cultural, social, and intellectual development. Currently enrolled students including baccalaureate degree seeking students are encouraged to participate. Detailed information on current campus organizations can be obtained in the Student Handbook, which can be visited online at http://broward.edu/studentlife/.

**Competitive Edge**

The Competitive Edge program prepares students for 21st century team building, and academic excellence. BC Intercollegiate athletics provides a unique educational opportunity for students to learn the values of self-discipline, sportsmanship, team building, and academic excellence. BC Intercollegiate athletics fosters the development of physical, intellectual, emotional and social skills in student athletes and encourages athletes to carry these lessons onto the playing field, into the classroom, and in the community. BC currently fields teams in men's basketball, men and women's soccer, men's baseball, women's softball, women's volleyball, and women's tennis. Scholarships are offered to some student athletes. For more information, visit Athletics online at http://broward.edu/studentlife/.

**Brain Bowl**

The Broward College Brain Bowl team competes with other participating Florida colleges. Each team consists of up to five members. The first competition is among assigned regions. Winners of the regional tournaments compete in the state tournaments, usually held in February or March. Brain Bowl members also participate in the National Association of Quiz Tournaments (NAQT) tournament, a nationwide college competition. The Brain Bowl team at Broward College has a proven track record of victories, in the region, state, and nation.

**Math Team**

The Broward College Math Team competes at the annual Florida state Math Olympics at the University of North Florida in Jacksonville. There are two parts to the event: A team portion and an individual portion. The team members are chosen based on a math test administered in the fall and winter semesters. Teams usually meet with the coaches on a weekly basis to practice. A math level of Calculus II is recommended.

**Model United Nations**

The Broward College Model United Nations team researches and debates various international topics. United Nations simulation conferences take place across the country and students compete with local colleges as well as top-tier national universities. Typically, the MUN team competes in three to four conferences a year, two in the fall, two in the winter. As well as attending United Nations simulations and crisis-themed conferences, Students can expect to participate in on-campus training and events. For more information on any of these Competitive Academic Teams, visit the honors website: www.broward.edu/honors

**Student Government**

Student Government operates on all campuses. Students are encouraged to participate and represent student interests. Officer positions in student government are available for all students. Additionally, the College designates baccalaureate degree students for positions within student government. For more information, contact your respective Student Life Office.

**Tigertail Lake Recreational Center**

The Tigertail Lake Recreational Center provides watersports programs, a conference facility, the ropes challenge course, recreational trips, credit and non-credit water sports classes, and American Red Cross lifeguard classes. Watersports training and recreational opportunities are offered in sailing, windsurfing, SCUBA, stand-up paddleboards, and kayaking to BC faculty, students, and staff. Students are welcomed to come out for FREE watersports rentals 6 days a week, or get involved in these programs by taking a Continuing Education or 1 credit elective activity class at Tigertail Lake. Tigertail also offers trips to the Keys and Central Florida to hone water sports skills. These trips offer students the opportunity to experience an open water environment. The Ropes Course offers students a free Open Climb Challenge once per month for the chance to experience climbing opportunities at Tigertail Lake. The Tigertail Lake Recreational Center is located on the entrance drive to Outdoor World in Dania Beach. Please call the Tigertail Lake Recreational Center at 954-201-4500 for more information. For more information, stop by to learn more about Tigertail programs, or visit Tigertail Lake online at http://www.broward.edu/tigertail.

**Intercollegiate Athletics**

The purpose of the BC intercollegiate athletic program is to provide an opportunity for students to learn the values of self-discipline, sportsmanship, team building, and academic excellence. BC Intercollegiate athletics fosters the development of physical, intellectual, emotional and social skills in student athletes and encourages athletes to carry these lessons onto the playing field, into the classroom, and in the community. BC currently fields teams in men's basketball, men's and women's soccer, men's baseball, women's softball, women's volleyball, and women's tennis. Scholarships are offered to some student athletes. For more information, visit Athletics online at http://broward.edu/studentlife/.

**Student Publications**

Student publication positions are available to all currently enrolled students including those enrolled in baccalaureate programs.

**The Observer**

Broward College encourages and supports a free and responsible student press. The Observer, the College's bimonthly newspaper, is a combined product of students from all Broward College locations. Student reporters engage in responsible, objective practices of writing, while those interested in photojournalism, design, graphics, desktop publishing and advertising can apply their abilities in preparing camera-ready pages for print. The Observer is a highly toured collegewide student publication, having received All-American ratings and two national Pacemaker ratings from a national critiquing service, in addition to numerous state awards since its inception in 1986. A limited number of scholarships are available for students who serve in various editorial positions. For more information, contact the Faculty Advisor at 954-201-8830 or the editorial office at 954-201-8844. You can also visit the Observer website online at http://observer.broward.edu/.

**P'an Ku**

P'an Ku is the BC Student Literary/Arts Magazine. Published twice yearly, P'an Ku features the creative efforts of students throughout the College in the literary and visual arts. Poetry, short stories, art, and photography are sought for publication. Watch for the announcements of submission deadlines during the year. P'an Ku has won both regional and national awards. P'an Ku, hosted at the Judson A. Samuel South Campus, encourages students from all campuses to participate. The magazine is looking for writers, artists, photographers, and anyone else who would like to be part of the staff. A limited number of memberships are available for those who serve in the various editorial positions. No prior experience is needed, only enthusiasm! For more information, call the Faculty Advisor at 954-201-8035. Students may visit the Observer online at http://observer.broward.edu/.

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STUDENT RIGHTS AND RESPONSIBILITIES

Campus Security Authorities (CSAs):
For those who would prefer to report a specific incident or crime to someone other than Campus Safety, or local law enforcement officers, Broward College has designated certain members of its faculty and staff to serve as Campus Security Authorities (CSAs). Reporting crimes/incidents to CSAs allow a victim or witness the option of remaining anonymous. Persons designated by the College as CSAs include: Academic Deans and Associate Deans, Campus Life Directors and Administrators, The Athletic Director and Assistant Director, Athletic Coaches and Assistant Coaches, Faculty Advisors to student groups/clubs, and Student Affairs Officials.

Visit the Broward College Safety website at: http://www.broward.edu/safety to access the Annual Security Report, active shooter information, Safety policy information, the College’s Severe Weather Plans, helpful brochures and pamphlets, and much more.

Students Right To Know
The College is providing the following statistics regarding campus crime as mandated by The Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act. During 2012, the following criminal offenses occurred at Broward College:

- Aggravated Assault: 3
- Arson: 0
- Burglary: 6
- Motor Vehicle Theft: 7
- Murder: 0
- Negligent Manslaughter: 0
- Robbery: 1
- Sex Offenses, Forcible: 0
- Sex Offenses, Non-Forcible: 0
- Incidents Above Classified as Hate Crimes: 0
- Liquor Violations: 0
- Drug Violations: 2
- Weapons Violations: 2

Family Educational Rights and Privacy Act (FERPA)
Broward College Policy 5.03

Right to Privacy
Broward College (the ‘College’) will provide access to student records in accordance with the Family Educational Rights and Privacy Act (FERPA), and Florida Statute 1002.22. All requests for student records must be made to the Custodian of Records/Vice President for Student Affairs and Enrollment Management.

No record will be created or retained without a legitimate educational purpose for the information contained therein.

The College will protect the confidentiality of a student’s record and share information only with members of the College community who have legitimate educational interest, to another educational institution when the student is seeking or intending to enroll at that institution, is part of an authorized Federal, State, or local audit of such records in compliance with applicable law, in connection with the determination of financial aid eligibility or enforcement, pursuant to a lawfully issued court order, a properly prepared subpoena, to a contracted vendor of the College performing an authorized service where there is a legitimate educational interest for the vendor to have access to such records, or the information is designated directory information.

In response to a lawfully issued court order or a properly prepared subpoena, the College will seek to notify the student or the student’s parent. The College reserves the right to deny access to directory information when such action is deemed necessary to protect the rights of the student.

In accordance with United States Code Title 10 Section 985 and Florida Statutes Section 1009.09, the College shall grant military recruiters access to recruiting information including the names, addresses, telephone listing, dates and places of birth, academic major, degrees received, and most recent educational institution for students attending the College. The information provided to military recruiters is not subject to the definition that the College has established for “directory information” as defined in this Policy. Students who opt out of the release of College directory information will also be considered to have opted out of the release of military recruitment information.

FERPA and the Student
Students have the right to inspect their official records and to authorize the College in writing to release information to outside sources. In accordance with the provisions of Florida Statute, Chapter 1002.22, eligible students and parents have a right to challenge the content of their record. An eligible student or parent may exercise his/her rights under these provisions by submitting a request in writing to the appropriate Campus Registration Coordinator, the Office of the Associate Vice President for Student Affairs/College Registrar, or the Vice President for Student Affairs and Enrollment Management.

Student-generated documents are not considered working documents of the College or permanent student records, and it is the responsibility of the student to dispose of the document should they produce the document. A student-generated document is information generated by the student for his/her own use. When such a document is presented to the College, it shall be reviewed and then returned to the student or eligible parent.

FERPA and the Parent of the Student
According to Federal FERPA Regulations 34 CFR 99, and Florida Statute 1002.22, the parents of a student who has reached the age of 18 years or is enrolled in a post-secondary program no longer have any rights under the provisions of this policy, unless the student gives written consent to release the information to the student’s parents, or the parent provides evidence that the student is a dependent of the parent as defined in the Internal Revenue Code. The Parent of a student must establish his/her eligibility by providing dependency documents, including, but not limited to providing the most recent copy of a Federal tax return naming the student as a dependent. Such documentation must be provided in-person with the campus chief student affairs officer (dean of students). The record provided will be for viewing and validation purposes only; those records will not be retained.

FERPA and Directory Information
Schools may disclose, without consent, “directory” information; however, the College must annually notify students and parents of their rights under FERPA to “opt out” of the release of directory information. The College notifies its students at the beginning of the fall and winter term in the student newspaper and in the annual printing of the Student Handbook.

The College reserves the right to deny access to directory information when such action is deemed necessary to protect the rights of the student.

Student records of a counseling or non-academic nature will not be made available to any outside person without written authorization from the eligible student or parent unless those records are specifically requested in conjunction with federal or state laws or court orders. In the case of properly prepared subpoenas, the release of the record will only be given when the student has been notified and payment of the fee established by the Board of Trustees has been paid.

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FERPA and Outsourcing
The College may enter into agreements with outside vendors to provide services to the College that the College cannot or chooses not to provide through internal resources. In such situations, the College will ensure that the contractor will make available student records only to those individuals where there is a contractual relationship to provide such services. The
College will ensure that the contracted vendor will not disclose personally identifiable information without the College's consent as allowed by an authorized FERPA exception.

**FERPA and other Educational Institutions**

Student records will be released at the request of the student if the student is seeking or intending to attend another non-College institution. Such release of information will not be considered a violation of College Policy. To the extent possible, 4. The College will attempt to share information regarding the presence of students having a disability with the employee/student worker and which are not available for another purpose. They may be maintained by the College or law enforcement officials of the same jurisdiction;

3. records made and maintained by the College in the normal course of business where the information is collected from a student and is used for purposes related to that student;

2. records of law enforcement unius of the College, which are maintained solely for law enforcement purposes and which are not available to persons other than law enforcement officials of the College or law enforcement officials of the same jurisdiction;

1. records of instructional, supervisory, and administrative personnel, which are in the sole possession of such personnel and which are not accessible or revealed to any person except as a replacement for the member of the staff or student to whom the record pertains.

**Identity Theft**

The identity of a student or another individual may be protected from identity theft by taking necessary precautions to safeguard personal information. Such precautions may include, but are not limited to:

1. Protecting passwords and usernames.
2. Ensuring that personal information is not shared with unauthorized parties.
3. Regularly checking credit reports and financial statements.
4. Limiting access to personal information.
5. Being cautious when disposing of documents containing personal information.

**Violations of Policy**

Students and eligible parents who believe there has been a violation of this policy and procedure may grieve the alleged misconduct in accordance with the College’s Student Conduct Hearing. If a resolution is not achieved, students and eligible parents who believe there has been a violation of this policy and procedure may appeal to the President of Broward College.

Students who improperly obtain student records may be subject to

- Suspension
- Expulsion
- Other sanctions as determined by the Student Conduct Committee.
20. Student Organization Misconduct - Student organizations (as well as members and officers individually and collectively) may be held accountable when an alleged offense is committed by one or more members or officers of the organization and any or all of the following conditions apply:
   a. The offense occurred at an event that was sanctioned or organized by the Student Conduct Office.
   b. Organizational funds are used to finance the activity.
   c. The event where the offense occurred is substantially supported by the organization.
   d. Members with knowledge of the forthcoming violation did not attempt to properly advise or prevent the offense.
   e. The organization fails to report or chooses to protect the individual(s) alleged to have committed the offense.

21. Theft or Attempted Theft or Damage - to a Person’s or the College’s Property

22. Unauthorized Computer Usage - as Defined in College Policies 8.01, 8.02, 8.03.

23. Unauthorized Demonstration - participation in a campus event which unreasonably interferes with freedom of movement, either pedestrian or vehicular.

24. Unauthorized Possession, Duplication, or Use of Keys to Any College Property

25. Unauthorized Possession, Use, or Distribution of Controlled Substances or Alcohol as defined in College Policy 5.18.

26. Unauthorized Use of College sponsorship or sanctioned events may have their own disciplinary procedures, rules or regulations.

27. Unauthorized Use of College Property or Facilities - the College-sponsored activity. Law enforcement personnel authorized to possess a firearm in a vehicle at any College location or at any College-sponsored activity; additionally, this specifically revokes an individual’s right to store a firearm in a vehicle at any College location or at any College-sponsored activity.

29. Violation of Published College Policies/Procedures, Rules or Regulations.

30. Violations of federal, state, or local laws, but not with any other violation of this Code.

31. Abusive Conduct - physical abuse, verbal abuse, threats, intimidation, harassment, coercion and/or other conduct which threatens or endangers the physical or on-campus safety of any person.

32. Bribery - offering, soliciting, receiving, or giving money or any item of value to a College employee for the purpose of attempting to obtain assistance, priority, consideration, or any benefit that would otherwise not have been provided.

33. Cheating - includes but is not limited to, copying homework assignments from another student; working together with another individual on a take-home test or homework when specifically prohibited from doing so by the instructor; and looking at text, notes or another student’s paper during an examination when not permitted to do so. Cheating also includes the giving of work or information to another student to be copied and/or used as a deceptive way to obtain a test, examination, or other written material.

34. Discrimination - treating any student, officer, employee or agent of the College differently than others are treated based upon race, color, national origin, religion, age, disability, marital status, sexual orientation, veteran status, or any other legally protected classification.

35. Disseminating - conduct which is disorderly, lewd, or indecent; breach of peace; or aiding, abetting, or procuring another person to break the peace on College premises or at functions sponsored by, or participated in by, the College.

36. Disruption - disruption or obstruction of teaching, research, administration, or other College-sponsored activity; including harassment of students at a College-sponsored activity; additionally, a student is also subject to College policies that address sexual harassment, gender discrimination, and related matters.

37. Harassment - any verbal or physical conduct based on race, color, sex, national origin, religion, age, disability, marital status, sexual orientation, veteran status or any other legally protected classification.

38. Plagiarism - includes but is not limited to, an attempt by a student to claim the work of another as his or her own; and to use someone else’s work without giving them passively or inadvertently, except in cases where academically necessary: attempts to circumvent established security procedures or to use any computer hardware or software, and any conduct that violates applicable state laws.
A prospective or enrolled student has the right to seek a remedy for a dispute or a disagreement through a designated complaint procedure. Students should use available information to have a decision reconsidered before filing a complaint. No retaliation of any kind shall be taken against a student for participation in a complaint.

This policy ensures that problems will be received, heard and addressed with consideration of fairness by the appropriate administrator/manager/supervisor of the college with oversight of a department or division. Students are encouraged to communicate their complaints informally first through the incremental levels within the program or the college as indicated in the procedures for this policy. If a resolution is achieved from levels one through three within the organizational structure, then students can file formal complaints with the appropriate Vice President or Campus President. Complaints may be made verbally or in writing and the student is entitled to an appropriate response at each level within the college structure. After exhausting all internal complaint processes, students may file a complaint with the Florida Department of Education Division of Florida Colleges, and with the Southern Association of Colleges and Schools Commission on Colleges, the college’s regional accrediting agency.

Violations of Policy

Students are expected to present and communicate their complaints using a professional standard of behavior in accordance with the Student Code of Conduct Policy and Procedure (College Policy 3.02). Students are not exempt from sanctions themselves when they violate any standard of the Code of Conduct while communicating their complaint to any level of the complaint process. The act of complaining comes without protection in this policy; they believe they have violated a policy or rule or regulation. Students are expected to present and communicate their complaints in accordance with the Student Code of Conduct, up to and including exculpation from the College, which can postpone the complaint moving forward.

Definitions

Complaint - is a dispute or disagreement raised by a student, group of students, or the student government, concerning the application of the specific provision of a policy, rule or regulation, the application of a policy, rule or regulation in other than a uniform manner, or the application of a rule or regulation other than in accordance with the provisions of the policy, rule or regulation.

The college expects and requires that front-line staff and/or administrators attempt to meaningfully resolve complaints prior to reaching the Executive Leadership level (President, Provost, Senior Vice Presidents, Vice Presidents, and Campus Presidents). In the same regard, students are expected to follow the chain of command within the complaint process prior to elevating a concern to the executive senior level of the College.

This procedure should be used when a student or prospective student has a concern about her/his education at the College. (Students who have a concern about a final course grade may appeal in accordance with College Policy and Procedure 4.19 – Grades and Grade Appeal). The objective of the procedures is to provide a resolution process for students to resolve concerns as quickly and efficiently as possible. This complaint process is for students and prospective students, and only students or prospective students can participate in the College's complaint processes; however, nothing within this process precludes a student from seeking counsel from an adviser of their choice, which may be an attorney.

If the student is uncomfortable with approaching the college employee directly, she/he may select an advocate inclusive of the campus ombudsman, a counselor or adviser, or other staff member. The staff member and administrators will attempt to work with the student and any other persons who are involved to respond to the problem within ten (10) business days. If the complaint is not answered satisfactorily at any step in the process, the student should progressively elevate their concerns through the process and if not resolved should be able to contact the appropriate Vice President or Campus President as indicated below.

After exhausting all institutional complaint processes and students and/or prospective students feel their issue(s) are unresolved, a complaint may be filed with the Florida College Division of the Florida Department of Education and/or the Southern Association for Colleges and Schools Commission on Colleges. More information on how to how to contact the Florida Department of Education regarding a Complaint, students may access information at the following website: http://www.fldoe.org/cc/complaint.asp.

Complaints related to actions that violate Federal law such as discrimination, ADA, FERPA should be reported to the proper College official using the process above. Additionally, students may file a complaint with the appropriate Federal agency that has jurisdiction over these areas. The United States Department of Education Office of Civil Rights handles complaints related to discrimination and ADA. Complaints related to privacy of records in accordance with the Family Educational Rights and Privacy Act (FERPA), students may also contact the United States Department of Education Family Policy Compliance Office and file a complaint in accordance with the rules of that agency.

Procedures Specific to Online Students

Students enrolled in a fully online program who desire to file a complaint not related to their final grade in a course should follow this Complaint Process for Non-instructional Issues (BC Procedure 5.25). After exhausting all institutional complaint processes, Florida residents may file a complaint with the Florida Department of Education-Department of Colleges, and/or with Broward College's regional accrediting agency. The Commission on Colleges of the Southern Association of Colleges and Schools. Studies residing in states other than Florida may file a complaint with the regulatory agency in the state where they are receiving the online instruction, and/or the Commission on Colleges.

Most complaint processes external to Broward College require that the student: 1) document the steps taken to exhaust the institution’s grievance process 2) describe the action taken by the institution to date in response to the student complaint; and 3) provide a copy of the institution’s response to the student as a result of following the college’s procedures.

Contact information for filing complaints online learning includes:

Broward College Online: http://www.broward.edu/online;
email: bcanline@broward.edu
954-201-6564
3501 SW Davie Road, Davie Florida 33314
Florida Department of Education, Division of Florida Colleges;
http://www.broward.edu/cc/complaint.asp
850-245-0487
325 West Gaines Street, Room 1544, Tallahassee, Florida 32399-0400
Southern Association of Colleges and Schools, Commission on Colleges;
404-674-4606
1866 Southern Lane, Decatur, GA 30033-4097
For students residing outside of Florida, contact information for other state regulatory agencies may be found at http://www.broward.edu/academics/online/Pages/default.aspx.
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<td>Student Activities</td>
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<td>Campus Dean of Students</td>
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<td>Students with Disabilities</td>
<td>Disability Services Adviser</td>
<td>Manager of Disability Services</td>
<td>Vice President for Student Affairs</td>
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<td>Coordinator or Associate Dean of</td>
<td>Associate Registrar</td>
<td>AVP for Student Affairs/College Registrar</td>
<td>Vice President for Student Affairs</td>
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<td>Enrollment Services</td>
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Broward College
ACADEMICS

Academic Support Services

Career Center

Student Counseling Services

Disability Services

Bookstores

Skills Improvement Program

Learning Resource Centers

24/7 Online Tutoring

Classroom Support

Libraries

Mentor Programs
Day-to-day living, and may interfere with students being able to achieve suicidal thoughts, or sexual assault can cause distress and problems with stress, body image, drug and alcohol abuse, anxiety, depression, violent or

Broward College provides student counseling services through Henderson South Campus, Building 68, Room 100 954-201-8865

A student may visit a self-service campus Career Service Center at the

10. Learn about on-campus employer recruitment events such as on
11. Obtain assistance with resume, cover letters, interviewing skills by

A. Hugh Adams Central Campus: Central Campus Dining
Bldg. 19, rm. 110
954-201-6609
Library Café
Bldg. 17, rm. 130
954-201-6623
Corporate and Public Safety Café
Bldg. 22

Dining Services and Vending Services
Broward College Dining and Vending Services are contracted by the college and function as a service to the students, faculty, staff and administration by providing healthy dining options for the college community.

The College Dining Services offers many option such as; snacks and beverages, pizza and breakfast items, hot and cold sandwiches, soups and salads, pasta and daily chef specials, grilled chicken with rice and beans

The College Dining Services also provides catering services to Broward College. If you have a list of menu items, including prices, hours of operation and catering guide are available by visiting the Dining Services web site at

Dining Services accepts cash and credit cards.

The College Vending Services has many vending machines located throughout the campuses and centers. The vending machines contain

A. Hugh Adams Central Campus:
North Campus
North Campus Dining
Bldg. 46, rm. 115
954-201-2042

Judson A. Samuels South Campus
South Campus Dining
Bldg. 68-C, rm. 172
954-201-8335

Student Pay-For-Print
Broward College Pay-For-Print stations are owned and operated by the college and function as a service to the students, faculty, administration and staff by providing print services necessary for education. The Pay-For-Print stations can be utilized once a Guest Card has been purchased.

The recharge and printing stations are listed below.

A. Hugh Adams Central Campus
Print Stations
Bldg. 17, rm. 105, rm. 107, rm. 162, Open Lab and rm. 265
Bldg. 19, rm. 104 and rm. 116
Recharge Stations:
Bldg. 17, rm. 107 and Open Lab
Bldg. 19, rm. 119

North Campus
Print Stations
Bldg. 46, rm. 238 and rm. 241
Bldg. 62, rm. 129
Recharge Stations:
Bldg. 46, rm. 238 and rm. 241
Bldg. 62, rm. 129

Judson A. Samuels South Campus
Print Stations
Bldg. 68, rm. 101, rm. 117, rm. 213 and rm. 265
Bldg. 72, rm. 136, rm. 138A, rm. 182C, rm. 190 and rm. 240

Recharge Stations:
Bldg. 68, rm. 117
Bldg. 72, rm. 136 and rm. 182C

Willis Holcombe Center
Print Station:
Bldg. 51, Lobby

Higher Education Complex
Print Station:
Bldg. 33, rm. 107A and rm. 430
Recharge Stations:
Bldg. 33, rm. 107A and rm. 430

Pines Center
Print Station:
Bldg. 100, rm. 100 and Learning Resource Center Recharge Station:
Bldg. 100, rm. 100 and Learning Resource Center

Weston Center
Print Station:
Bldg. 110, rm. 200
Recharge Station:
Bldg. 110, rm. 200

Miramar Center
Print Station:
Bldg. 125, rm. 200
Recharge Station:
Bldg. 120, rm. 200

Skill Improvement Programs
Broward College offers multiple opportunities for prospective and current students to improve their skills to enhance their success in college level courses.

Broward College Online has a life, self-paced course in research writing and mathematics that students can take almost any time. This College Foundations course can be done self-help tutorial or students can receive expert help from Broward College faculty. Information available at 954-201-7900 or onlineatbroward.edu

BC offers Start Smart Camps during the summer and at select times during the academic year. These low cost skill refreshers camps are 2-week face-to-face and intensive tutorials to diagnose and improve weaknesses in reading, writing, and/or mathematics. Information available at 954-201-6982 (Central Campus), 954-201-2345 (North Campus), and 954-201-8884 (South Campus).

Broward College Continuing Education department offers non-credit courses for topics to refresh Algebra, arithmetic, writing, reading and math skills for placement testing or course enrollment. Information available at 954-201-7800.

Learning Resource Centers
The overall goal of the Learning Resource Center on each of the campuses is to provide faculty and students with access to up-to-date instructional and support services in both the classroom and learning laboratories. BC Student ID Cards validated for the current term are required at each BC LRC.

Each of the Learning Resource Centers also maintains a hands-on self-study area for computer and Physiology review. Models and study materials are available for individuals or small groups.

In addition, open computer labs with direct Internet access are available to students on each of the campuses/centers for both research and homework needs.
Discipline Support Labs
Discipline Support Labs exist to help students succeed in their courses. Each campus/center has a discipline lab for English/ESL, Math, Modern Foreign Languages, Reading, Science Resource Lab, and Open Computer Labs. These labs assist students with both college-prep and college-level courses.

Tutoring
Tutoring services are available for several area subjects. Interested students should contact the Learning Resource Center on each campus for tutoring details or visit www.broward.edu/studentresources/lrc/Pages/default.aspx.

24/7 Online Tutoring for BC Students
College students now have 24/7 online tutoring access! Smarthinking provides real-time online tutoring and homework help for core courses and skills up to 24 hours a day, seven days a week.

To access online tutoring help, log on to myBC at the Broward College homepage at and click on the Smarthinking.com link. A Step-by-Step Smarthinking Student Handbook guide is available for students on Smarthinking “My Home Page” in “My File Cabinet” in the information scrolling box. If assistance is needed with accessing a Smarthinking account, please go to the Learning Resource Center at the Central Campus.

Classroom Support
Another function of the learning resource center is to support quality instruction by providing computer/audio visual equipment and materials to the classroom classrooms. Each campus maintains an extensive library of video and other instructional materials to enhance classroom instruction. Specific information regarding availability and scheduling procedures for the use of classroom materials and equipment may be obtained by contacting the campus Learning Resource Centers.

A. Hugh Adams Central Campus
Building 17 954 - 201-6660
North Campus
Building 62 954 - 201-2260
Judson A. Samuels South Campus
Building 72 954 - 201-8909
Pines Center
Building 101 954 - 201-7595
Willis Holcombe Center
HEC Rm. 430 954 - 201-7595

Libraries
The library on each of the College’s campuses is a joint-use facility. Consequently, policies, procedures, and hours of operation differ slightly from one location to another.

On the A. Hugh Adams Central Campus, the University/College Library is located in Building 17. The library is a joint-use facility operated by Broward College and Florida Atlantic University. The mission of the library is to provide academic support to students and to create a stimulating environment that will encourage academic achievement. Students have access to a large book collection and electronic resources available for use in the building or remotely. Information and resources provided by the University/College Library are available through the Web.

Students on the College’s North and Judson A. Samuels South Campuses are also served by joint-use facilities. The College and Broward County jointly operate these libraries. On North Campus, the joint BC/Broward County Library is located in building 62, and on the Judson A. Samuels South Campus, the joint BC/Broward County Library is located in building 81. Both of these facilities have access to the county’s electronic catalog which permits the user to search all the holdings in the entire Broward County Library System as well as a large assortment of electronic databases. Research using the catalog and electronic databases is available at each library location, as well as through the College’s web page. Students who attend the Willis Holcombe Downtown Center or the Pines Center will find a Broward County Library located nearby.

Library Cards
BC students are eligible to use all campus libraries. However, due to their particular partnerships, different cards are required on the campuses to check out materials. Students must have a BC identification card in order to check out materials from the University/College Library on the A. Hugh Adams Central Campus. Students at the North and Judson A. Samuels South Campuses and the Willis Holcombe Downtown Center and the Pines Centers must have a Broward County library card. Since each location is unique, materials that have been checked out must be returned to the campus from which the material was borrowed.

The library staff encourages students and faculty to make suggestions for the improvement of service and appreciates recommendations for titles to be added to the collection. Qualified staff is available at each location to help patrons identify, locate and use library materials. For further information and for the different campus library hours of operation, please contact the individual campuses.

Peers Inspiring Peers – Peer Mentoring
The Peers Inspiring Peers – Peer Mentoring Program provides an opportunity for new students to connect with mentors who are knowledgeable of Broward College and the college experience. Peer Mentors assist new students with the academic transition to college by facilitating connections with faculty and staff, helping familiarize students with college resources, providing a positive support system, and engaging students in campus events and activities.

All Peer Mentors must demonstrate outstanding academic performance and general knowledge of Broward College and the college experience. Peer Mentors also receive specific training in mentor roles and responsibilities. Peer Mentors meet with their mentees on a regular basis throughout the academic term and make additional contacts by telephone, e-mail, text message, and social media. For further information, please contact the Student Success Office at each campus:

North Campus, 954-201-2510
Central Campus, 954-201-6869
South Campus, 954-201-8994

The Council on the Social Status of Black Males
Broward College’s Council on the Social Status of Black Males was established in the Fall of 2008 to develop programmatic efforts and mentor programs to improve the retention and graduation rates of Black males. Council members volunteer as mentors for Black Male students.

Brother to Brother Mentor Program
Brother to Brother (B2B) is a mentoring program in which highly successful Black and Hispanic Male students are trained to mentor incoming freshman males. The goal of the program is to provide student mentors who assist with the transition to college, and engage participants in a weekly study group. The B2B mentors serve on North, South, and Central campuses.
ACCELERATED HIGH SCHOOL LEARNING OPPORTUNITIES

Eligible high school and home education students may apply for admission to BC and enroll in college-level courses to increase learning and shorten the length of time needed to acquire a college degree. Special application and approval procedures apply to students in all BC accelerated programs. Written authorization from the principal, guidance director, and parent or guardian is required for Dual Enrollment and Early Admission. Eligible student’s application and matriculation fees will be waived for Broward County Public School students, home education students, and many private high school students. Credits are also awarded for certain scores on national examinations.

If a student desires to continue at BC, a re-entry application, changing the admission status, must be completed.

Home education dual enrollment students may participate in the dual enrollment program at BC aligned to the criteria stipulated in the Dual Enrollment Articulation Agreement.

College Course-level Outcomes and Expectations
Any letter grade below a “C” will not count as credit toward satisfaction of the requirements in Rule 6A-10.030, F.A.C. All grades are calculated in a student’s GPA and will appear on the student’s permanent college transcript, including “W” for withdrawal. Grades of “D”, “F”, and/or “W” may affect subsequent postsecondary admission. Careful course selection is highly recommended. While appropriate for college-level study, course materials and class discussions may reflect topics not typically included in secondary courses; parents may object for minors. Courses will not be modified to accommodate variations in student age and/or maturity.

To minimize student costs for excess hours, parents/students should select courses to meet high school graduation and college degree requirements, including approved program common prerequisites. General education courses are strongly encouraged.

Attendance Requirements
Eligible public and non-public high school students who have been certified by their principals as qualified to dually enroll in courses may attend Broward College. It is the students’ responsibility to attend all classes in which they are enrolled. High school students are responsible for completing the proper college process and notifying their high school if they choose to withdraw from a course. Each faculty member is required to report non-attendance throughout the term up to the 60% period. When students do not attend class up to the 60% period, the student can be unofficially withdrawn from the course by faculty based on the class attendance policy, or the student’s non-attendance. The high school is responsible for advising the student each semester; at which time the student’s eligibility for enrollment in specific approved courses at Broward College must be verified by the high school principal.

Dual Enrollment
This program offers high school juniors and seniors a unique opportunity to enroll in BC courses for high school and college credit. High school students who have completed 11 credits prior to the fall term may concurrently enroll in post-secondary courses creditable toward a certificate, diploma, or an associate degree provided they meet program rules and regulations. Students participating in dual enrollment options must meet the following entrance eligibility requirements: (1) enrolled in a course of study which will fulfill requirements for high school graduation; (2) 3.0 cumulative unweighted high school GPA and; (3) minimum standardized college placement scores. Students who only score college ready in Reading and have at least a 3.0 GPA may enroll in SLS 1001 only. In order to continue in the program, students must maintain a 3.0 unweighted GPA in their high school academic work and earn a grade of “C” or better in college-level work as confirmed by their high school guidance director and BC’s registrar’s office. Dual enrollment students who receive a “D” or an “F” must sit out of the program for two consecutive terms before being allowed to continue, provided they still meet program eligibility requirements. Students may only be allowed to repeat the course in which a “D” or “F” was received for grade forgiveness after graduation from high school (not applicable to College Academy or Early Admissions students).

Early Admission
Students may enroll full-time in college and receive high school and college credit for courses. Students must enroll in a minimum of twelve college-level credit hours each major term and maintain a grade point average of 2.0, in order to receive a high school diploma. To be eligible for the Early Admissions program students must meet the same requirements as for Dual Enrollment.

The College Academy
The College Academy, located on the central campus, is a joint venture between the School Board of Broward County and Broward College. It is an accelerated college program for Broward County eleventh and twelfth grade students. This dual-enrollment secondary school was created for students who desire an alternative to the traditional high school program. Students are provided the opportunity to receive a high school diploma and an Associate of Arts degree concurrently. Specific pre-admission requirements must be met to establish eligibility. Tuition and books are provided free of cost for College Academy students. While attending The College Academy, students are enrolled in both dual enrollment and high school courses, taking approximately 12 college credits per semester. Students must attend the fall, winter, and first summer terms. Those planning to earn their AA degree while still in high school may need to complete additional dual enrollment coursework during the second summer term. Students must maintain a 2.5 unweighted high school grade point average in order to remain at The College Academy.

The College Academy is designed for students who have the maturity required for college campus life, the discipline to use their time wisely, and the academic ability to handle the rigor of college work. Since Broward College, and therefore College Academy, is a public space and open access campus (open to the general public), the Jessica Lunsford* rules that exist for traditional public schools cannot apply for College Academy.

* Jessica Lunsford Act obliges all personnel who are in contact with students to undergo a state and national fingerprint-based criminal history check.

For further information, contact The College Academy at www.collegeacademyatbcc.org or 754-321-6900.

Career Pathways Program
Career Pathways (formerly Tech Prep) links secondary and postsecondary technical education programs of study. High school or technical center students who complete a technical program of study will receive training for high skill, high wage occupations. At the same time, they can begin earning Broward College or technical center credits. Students are encouraged to take rigorous academic courses along with the Career Pathways program and maintain a “C” or higher grade point average.

Students must complete a technical program at the high school or technical center, and meet the articulation agreement requirements, which include a comprehensive assessment to validate required technical competencies. The number of credits that will be awarded and the type of assessment that will be used are outlined in the technical education articulation agreements established between Broward College and Broward County Public Schools. Credit will be awarded once the student has been accepted to Broward College and enrolled in a program of study. The credits will be valid for 18 months after high school/technical center graduation.
Career Pathways Program Areas include but are not limited to the following:
Accounting Technology
Automotive Technology
Business Administration Programs
Early Childhood and Education Program
Computer Science Technology
Diversified Cooperative Training
Engineering Technology Program
Health Sciences
Hospitality/Travel & Tourism
Industrial Management Technology
Marketing
Office Systems Technology Programs
Restaurant Management

For more information about Career Pathways, please contact Broward College Career Pathways at http://www.broward.edu/academics/accelerated/Pages/careerpathways.aspx.

Credit by Exam

Advanced Placement:
BC cooperates fully with accredited high schools and colleges in the Advanced Placement Program of the College Board. Advanced Placement courses are challenging, college-level courses that are designed to parallel typical freshman and sophomore-level courses. Advanced placement exams are taken after students complete the corresponding Advanced Placement courses, which are available to juniors and seniors in most Broward County high schools. To qualify for college credit, students must earn an appropriate passing score on the nationally administered exam. Credits will not be awarded for examinations that duplicate course work or other exam credits previously posted to a student’s academic record. In order to award credit, Broward College requires an official grade report, sent directly to the College from College Board, not a student copy.

Students are awarded credits only. Grades are not given for advanced placement courses. Therefore advanced placement courses are not included in the grade point average. More information about Advanced Placement, including descriptions of courses and sample examination questions, is available online at www.collegeboard.com/ap.

Recording Fee
Broward College charges a $5.00 recording fee for Advanced Placement courses to be entered on a student’s transcript. This must be paid to the campus cashier before the course will be listed on the student’s transcript.

International Baccalaureate Program
The International Baccalaureate Program is a challenging curriculum offered in high schools that is designed to prepare students for advanced coursework in many countries’ postsecondary systems. Students with IB diplomas have been assessed in several subjects and have fulfilled certain other requirements, such as an extended essay. An official IB transcript is required and must be received directly from the International Baccalaureate Office in New York. Students are awarded credits only. They are not given grades for IB courses; therefore IB courses are not included in the grade point average.

College Level Examination Program (CLEP)
The College-Level Examination Program (CLEP) is a series of tests developed by the Educational Testing Service and offered at test centers throughout the country. The CLEP program provides an opportunity for students to demonstrate competency in certain subjects and thereby earn college credit for particular courses without attending classes. Students seeking CLEP credit at Broward College but do not wish to become BC students must submit a non-credit admissions application to the Admissions/Registration Office. Individuals wishing to become BC students and receive CLEP credit must apply to Broward College and pay the non-refundable application fee. Former BC dual enrollment students must submit a Re-Entry application but do not pay the application fee. Broward College’s CLEP code number is 5074.

CLEP tests are administered throughout the year at any of the three campus testing centers at specific testing dates and times.

CLEP credit cannot duplicate regular college course credit already earned, Dual Enrollment credit, or other credits earned through examination. Letter grades are not awarded for CLEP courses, and CLEP courses are not included in the GPA for term enrollment credit hours. This credit is also not included in determining the qualitative or quantitative measures for student financial aid standards of academic progress annual review.

The CLEP tests are offered in addition to the BC Experiential Learning which provides for the assessment of prior learning and awarding of credit for many other BC courses. Courses for which credit is awarded is not included in BC enrolled credit hours and are not eligible to meet in residence requirements for graduation. Contact the Associate Vice President for Student Affairs/College Registrar’s Office for additional CLEP information.

Other Nationally Standardized Tests
Broward College awards credit based on receipt of specific passing grades on Dantes Subject Standardized Tests (DSST) and Excelsior College examinations. Credit awarded may not duplicate ordinary credit, Dual Enrollment credit, or other credits earned through examination at the institution. Students seeking credit for Dantes or Excelsior College exams must be admitted to the College.
ACCELERATED LEARNING FOR ADULTS

Prior Learning Assessment Program
The Prior Learning Assessment Program, developed primarily for working adults, is designed to recognize the academic value of what students have learned through experiences outside the college classroom. Credit for prior learning may result from work experience, employment-related training programs and seminars, volunteer work, travel, military service or intensive self-directed study. If students have gained BC course-equivalent knowledge, competencies, and/or skills as a result of prior learning experiences, they may be able to earn academic credit through the Prior Learning Assessment Program for lower division and upper division coursework.

Assessment Process
The assessment process is sometimes referred to as “challenging a course.” Assessment may involve one or more of the following:
- written or performance tests
- preparation of a portfolio that describes student learning and how it was acquired
- evaluation of student certificates and licenses
- interviews with faculty members

The method of assessment is determined by College faculty members that are responsible for the courses for which students wish to receive credit.

Prior learning credits are not available for all BC courses. Students who have been admitted and who have decided on an academic program may challenge courses through Prior Learning. Students who receive permission to challenge a course from an authorized faculty assessor must pay the required assessment fees and satisfactorily pass a faculty-administered learning assessment before credit can be awarded.

The assessment process may take from several hours to several months, depending upon the amount of credit requested and methods of assessment required. When the process is completed, assessment results will be forwarded to the College’s District Academic Affairs Office, which verifies that assessment documentation is complete and informs the Associate Vice President for Student Affairs/College Registrar’s Office of the amount of credit the student has earned.

Although there is no limit to the number of hours that students can receive through Experiential Learning, 25% of credits required for a degree must be earned by taking classes at BC to satisfy in residence requirements for graduation.

Assessments are generally not scheduled between semesters or during the first or the last week of each semester. Results of assessments initiated during the last week of any semester may not be posted to student transcripts for that semester. Students who wish to use Prior Learning credits to satisfy same-semester graduation requirements, course load requirements, transfer requirements, or registration pre-requisites should plan to complete their assessments well before the end of the semester in which they want the credits to be posted.

Prior Learning credits appear on student transcripts as “CR.” Letter grades are not awarded for Prior Learning. Credits earned through Prior Learning satisfies graduation requirements but may not be accepted as transfer credits at another institution. Students planning to transfer to other institutions should contact the college or university to determine if Prior Learning credits are accepted.

For more information, contact the appropriate academic department(s) or the Associate Vice President for Academic Affairs at 954-201-7279.

Armed Services Educational Credits
Broward College will grant credit for evaluated military education that has been recommended as suitable for postsecondary credit by the American Council on Education’s (ACE) Guide to the Evaluation of Educational Experiences in the Armed Services. The credits will be awarded in the same manner as other transcript evaluation processes.
SPECIAL ACADEMIC PROGRAMS

The Robert “Bob” Elmore Honors Institute
One of the most highly rated two-year Honors Programs in the country; the Robert “Bob” Elmore Honors Institute at Broward College serves approximately 1200 students annually.

Honors Institute Advantages
Honors Faculty teach dynamic, seminar-style honors classes which are capped at twenty students. Honors classes create an enriched and specialized learning experience for our students and Honors Institute members receive special recognition and benefits, including but not limited to, priority registration privileges.

The Honors Institute Mission Statement
The mission of the Robert “Bob” Elmore Honors Institute of Broward College is to provide an enriched program in a vibrant, active community of students, faculty and staff which:

- stimulates independent and creative thought;
- challenges the intellect;
- enhances career and professional development;
- builds self-confidence and empowerment;
- provides opportunity for cultural enrichment; and
- promotes a global perspective.

Eligibility for the Honors Institute
Students entering Broward College as Freshmen are eligible to apply for admission to the Honors Institute based on SAT, ACT, or PERT scores. Current Students who have completed 12 college-level credit hours and have earned a minimum of a 3.5 overall/honors GPA are eligible to apply for admission to the Honors Institute.

Eligibility information, campus contact information, and the Honors Institute Application are available on the BC website, Honors Institute home page, online at http://broward.edu/honors.

Honors Institute Scholarships
The Honors Institute offers Term scholarships to qualifying part-time and fulltime Honors students. Award amounts vary depending on available funds. The Honors Institute also offers The “Irm’s 100” Scholarship to high school graduates who meet eligibility criteria. Through BC’s International Education program, eligible Honors students can apply for a subsidy for International Study Abroad Programs. All graduates of the Honors Institute are eligible to apply for transfer scholarships from public and private universities with the added distinction of being an Honors Institute Certificate holder.

The Honors Certificate
The Honors Certificate is awarded to members of the Honors Institute who are graduated from Broward College with a 3.5 overall/honors GPA and who have completed 15 credits of Honors Coursework, including the Honors Capstone Course, IDH 2121. Honors Courses are noted on the official transcript and Honors cords are awarded for graduation regalia to certificate earners. Additionally, Associate in Science, Bachelor in Science, and Bachelor in Applied Science students are eligible to apply to the Institute and work toward the Honors Certificate. Contact the Honors Institute or visit the website for criteria and more information.

Annual Honors Institute Awards Celebration and University Transfer Scholarships
Each year the Honors Institute hosts a college-wide Honors Colloquium and Convocation. Discipline and Deans’ Honors Awards are presented to Honors students from each campus. The highlight of the event is the official recognition of our Certificate earners and presentation of university transfer scholarships from local universities. Honors Institute Graduates attend all ten of Florida’s State Universities and many private universities such as Nova Southeastern, Barry University, and the University of Miami. Qualified graduates of the Honors Institute have also been awarded scholarships to the most prestigious colleges and universities in the nation such as Harvard, Tulane, Cal-Berkley, Smith, Georgetown, MIT, University of Chicago, University of Texas/Austin and many more.

Honors Student Committee
Honors students are encouraged to join the Honors Student Committee on their campus for special social events; travel and educational opportunities; and volunteer activities in the community. In addition, Honors Institute students are encouraged to participate in the many cultural events presented by the Honors Institute and Broward College.

Academic Teams
The Honors Institute is pleased to support three high-quality Academic Teams: The Brain Bowl, the Math Team, and the Model United Nations. These highly competitive teams have been recognized for their success across the state, southern region, and country. For more information, visit the Honors Website.

The Brain Bowl
Students in the Honors Institute have the opportunity to compete for a place on the Broward College Brain Bowl Team. Regional and State winners of the annual Florida Community College Brain Bowl Tournaments may receive cash prizes and earn scholarships to upper division universities. BC’s highly successful Brain Bowl team, whose members all receive scholarships, competes in five tournaments a year throughout the state and the South. BC is the only College to have a Brain Bowl team win five consecutive state championships and the only College to have two teams simultaneously win first and second place.

Phi Theta Kappa
The National Scholastic Honor Society, Phi Theta Kappa, has a chapter on each Broward College campus. Students earning at least a 3.5 overall cumulative GPA, after completing 12 college-level credit hours, are eligible for membership. Students do not have to be part of the Honors Institute to become members of PTK. And, not all PTK members are part of the Honors Institute. PTK provides opportunities for scholarship, leadership, service, and fellowship with other students of high academic standing around the nation. Membership in Phi Theta Kappa also brings opportunities to enter state and national scholarships and competitions as well as opportunities to attend regional, state and national conferences and seminars. Students who continue beyond their two-year degree have opportunities to become members of four-year honor societies as well.

Internship Education
(Formally known as Cooperative Education)
An internship is an academic program that combines on-campus study with directly-related work experience.

The College defines an internship as:
- Any short-term, supervised work experience specifically related to a student’s declared major, for which the student earns academic credit.
- The work can be full- or part-time, on- or off-campus, paid or unpaid. In order to comply with the Fair Labor Standards Act of 1938, it is required that all employers that are for-profit pay their interns at least minimum wage, unless the intern is receiving academic credit (unpaid internships offered by for-profit organizations must result in academic credit for the student). Paid internships are highly encouraged.
- The internship should provide students with a meaningful experience directly related to their course of study. The Faculty Internship Instructor ultimately approves the suitability of the internship for course credit.
Eligible Students
To qualify for an internship, the student must be currently enrolled in a degree program, be in good academic standing and have completed at least 24 credits.

Student Responsibilities
- Register and Upload a resume to BC’s College Central Network (CCN) at www.collegecentral.com/browardcollege
- Sign up for a mandatory Internship Orientation
- Acquire an internship in a field directly related to your declared academic major via CCN, faculty contacts, or personal contacts
- Bring internship offer letter to career center staff to be matched with Internship Faculty Advisor
- Meet with the appropriate Internship Faculty Advisor to define internship learning objectives
- Pay for the internship class after the Director for Academic Affairs registers you for the internship course
- Complete all required assignments/reports/projects and paperwork
- Perform all work duties as assigned and fulfill the required work hours (144 hours for a 3-credit course)
- Learn as a result of the work experience

Benefits of an Internship
- Earn academic credit
- Gain practical experience and job knowledge
- Test your career decisions
- Make valuable contacts in your professional field

Students with the following AS/AAS majors should contact the discipline department for internship information: Automotive Service Management, Automotive Technology, Dealer Specific, Building Construction, Dental Hygiene, Digital Media/Multimedia Emergency Medical Services Engineering Technology/Biomedical Track, Health Information Management, Legal Assisting, Sports, Fitness and Recreation Management, Early Childhood Education, Environmental Science, Global Trade & Logistics, Graphic Design, Marine Engineering Management, Music Technology, Nuclear Medicine, Nursing, LPN-RN Nursing Transition, Physical Therapy Assistant, Radiation Therapy, Hospital-Based Radiography, Respiratory Care, Diagnostic Medical Sonography, and Vision Care.

For more information about internships, contact the Director for Academic Affairs at:

225 E. Las Olas Blvd
Fort Lauderdale, FL 33301
954 201 7515

International Education Programs

Study Abroad Program
Broward College provides students with opportunities to enroll in several different overseas academic programs. BC has conducted study programs in foreign locations since 1974, and students participating in these programs earn transferable college credit. BC offers several overseas academic programs for students of all ages. Both short-term (summer) and long-term (semester) programs are offered. More information about any of the BC Foreign Study programs may be obtained by contacting the International Education Study Abroad Office at 954-201-7709.

A. College Consortium for International Studies
Broward College is an active member of the College Consortium for International Studies (CCIS) www.ccisabroad.org, an international organization founded for the purpose of providing high quality international programs abroad, at reasonable costs. As a result of membership in CCIS, Broward College offers summer and semester-length academic programs in many countries including England, France, Germany, Ireland, Italy, and Israel. Students may earn Broward College credits when they enroll in these programs. BC sponsors programs in three countries through CCIS: Seville, Spain, Heidelberg Germany and Lima and Cusco, Peru.

Summer and Semester Length Programs
The Broward College Center in Spain was established in 1979 to provide students with an opportunity to study for a semester or summer in Spain at reasonable cost. Students live and attend classes in the beautiful city of Seville and earn 15-18 semester hours of credit each semester or 6-7 semester hours in the summer term by participating in the program. Students may enroll at the International College of Seville or the University of Seville, Spain. Unlike other programs in Spain, the Broward program does not require proficiency in Spanish; students may participate in English or Spanish instruction depending on their level of language proficiency. Students participating in the Spain Program may choose to live with Spanish families or in private residencies.

Similarly, the College offers study abroad programs in liberal arts in Heidelberg, Germany through Schiller International University or intensive German language study at the International House Heidelberg.

Semester and summer opportunities also are available in Lima and Cusco, Peru through the College’s affiliation with the Universidad San Ignacio de Loyola, which has campuses in both cities.

For more information about this program contact the Greene International Education Institute at 954-201-7709.

B. Faculty-led Summer Study-Abroad Program
Broward College also conducts several short-term overseas academic programs in foreign locations during the summer terms. These courses combine foreign travel experience with academic instruction. Participants typically earn three to six semester hours of credit in a variety of subjects. These courses are fully accredited and may be applied toward a degree at Broward College or used for other purposes such as certificate renewal and/or incentive awards for public school teachers. Several different programs are offered each summer, with opportunities to study in many countries around the world. For a current list of available programs contact the Greene International Education Institute at 954-201-7709 or online at www.broward.edu.

International Affiliate Programs
Broward College has established formal linkages with several institutions of higher education around the world. Since 1981, BC has maintained, at various times, academic affiliations with a number of educational institutions located in Europe, Asia and South America. Broward College’s regional accreditation does not transfer to these international affiliates or their students.

International affiliates utilize the BC curriculum and offer courses and programs similar to those offered at BC. Broward College provides technical assistance to facilitate the parallelism and quality of the academic programs offered at all international affiliates. This includes appointing a faculty coordinator for these centers and two site visits a year to visit classes, observe and evaluate faculty, evaluate the adequacy of learning resources and student support services for each site where Broward College courses are offered.

Current BC International Affiliates include:
- Center for American Education (CAEG), Guatemala City, Guatemala Universidad Autonoma del Caribe (UAC) Barranquilla, Colombia
- National Management School (NMS), Chennai, India
SACS Approved International Centers
Broward College also conducts programs approved by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) where students enroll and register in college credit courses as Broward College students at five locations:

- Center for American Education (CAE) Singapore
- Broward Center for American Education (BCAE), Guayaquil and Quito, Ecuador
- American College of Higher Education (ACHE), Colombo, Sri Lanka
- Center for American Education at the Universidad San Ignacio de Loyola (USIL), Lima, Peru
- Institute for American Education at Vietnamese-American Technical College (VATC), Ho Chi Minh City, Vietnam

Army ROTC Program
Broward College offers ROTC courses that satisfy the first two years of the four-year Army Reserve Officers Training Corps program or the Air Force Reserve Officers Training Corps program. The Army ROTC courses are offered in conjunction with Florida International University and are taught at the FIU campus in Miami. The Air Force ROTC courses are also offered in conjunction with the University of Miami and are taught at the UM campus in Coral Gables.

ROTC is a four-year program that helps students learn leadership skills while in college. Eligible students who earn their bachelor’s degree and complete the ROTC program will be commissioned as an officer in the United States Military. The ROTC program offers scholarships and other monetary benefits to participants. Students interested in the Army ROTC program should contact the Military Science Department at Florida International University at 305-348-1619. Students interested in the Air Force ROTC program should contact the Military Science Department at the University of Miami at 305-284-2870. Under no circumstances should a student register in ROTC courses without first contacting one of the above programs.
Online Learning Opportunities

One of Broward College’s goals is to provide access to classes when a student wants and needs them. Online and blended courses are some of the many ways BC makes education accessible and promotes a successful learning environment.

Broward College’s online, blended courses, and degree programs are designed for motivated, self-disciplined students whose schedules do not permit them to attend regularly scheduled meetings on campus, for students who prefer to study independently, or for students who prefer a blend of online and on-campus learning.

Cutting edge online courses have the same start and end dates as on-campus classes, but students can log in anytime, anywhere to read content, take part in class discussions, upload assignments, email the professor, and take quizzes. Online courses have few, if any, on-campus requirements.

Blended courses combine on-campus with online learning, reducing, but not replacing on-campus attendance requirements.

Fully Online Degrees
Several A.A. and A.S. degree programs can be taken entirely online. A number of certificate programs are also available in a fully online format. For a complete list of available degrees and certificates, see the Broward College Online website at http://online.broward.edu.

Online Courses
Online courses are a great way for students to complete degree requirements while juggling work and/or family responsibilities. However, online learning requires self-discipline and well-developed study skills. Some online courses may require limited on-campus meetings for orientations, labs, and proctored tests. Student unable to attend an on-campus proctored exams can opt, for a fee, to take their tests remotely through virtual proctoring or at an approved testing center. On-campus meeting requirements (if any) are listed on the Course Preview Page (listed in the course notes of all online classes) and in the course syllabus.

All online courses are college credit equivalents to courses taken in a classroom. Online courses can be used to meet A.A. degree requirements, as well as requirements in a number of A.S. and technical certificate programs. The cost of tuition is the same as for on-campus courses; however, students enrolled in online courses are assessed a distance learning fee, which remains among the lowest rates in Florida.

Blended Courses and Programs
Blended courses combine traditional on-campus learning with online learning. Blended learning classes replace some of the time that would normally be spent in a classroom with online learning activities. Blended courses are a good choice for students who enjoy both online and on-campus learning but cannot spend as much time on campus as would be required for a traditional course. Some blended courses are offered in an accelerated format that permits students to complete courses in a shortened time frame.

Blended Degrees
Blended degree programs either consist of some online courses and some on campus courses, or offer all the courses in the program in a blended format. For a complete list of available blended degrees and certificates, see the Broward College Online website at http://online.broward.edu.

Getting Ready for Class
You can log in to your online or blended class on the first day of the term. If you are receiving financial aid to pay for this course, simply logging onto the course is not enough, you must engage in the course with the faculty and complete assignments at minimum before any aid will be disbursed or refunded to you. For online classes you should read the Course Preview Page for the course(s) for which you registered. Preview Pages include important documentation that you need to know before the class actually begins such as information about required textbooks and supplies, mandatory on-campus meetings or exams (if there are any), and information about the class orientation.

For more information about BC’s online learning program, visit the website at http://online.broward.edu or email BConline@broward.edu.
GENERAL ACADEMIC INFORMATION

Academic Honors
The College recognizes exceptional scholastic achievement at the end of each regular term and posts them to transcripts and grade reports.

The President's List includes the names of students carrying 12 or more college credit semester hours who have a grade point average of 4.0.

The Dean's List includes the names of students carrying 12 or more college credit semester hours who have a grade point average of 3.50 to 3.99.

The Honor Roll includes the names of students carrying 12 or more college credit semester hours who have a grade point average of 3.25 to 3.49.

Academic Load
To be considered full-time, students must carry a minimum load of 12 semester hours per academic term or an equivalent number of clock hours for an educational program using clock hours per the United States Code of Federal Regulations.

The maximum load that may normally be carried is 18 credit hours per academic term or an equivalent number of clock hours. However, students who earn a grade point average of 3.2 or above may carry an extra course, but in no event shall the maximum load exceed 21 credit hours per academic term or an equivalent number of clock hours. The maximum load for a six-week summer session is nine credit hours or an equivalent number of clock hours. The normal load for a six-week summer session is six credit hours or an equivalent number of clock hours, except during a request for an exception by petitioning the Academic Standards Committee. The Academic Standards Committee makes recommendations to the Vice President for Student Affairs and Enrollment Management who shall make the final determination. Petitions must be received by the College Registrar, at least 5 business days prior to an Academic Standards Committee meeting.

If the student must have the hours in order to graduate, a student in the last term of residence prior to graduation may carry an overload even though his/her grade point is not high enough under the above policy. In no event should the student enroll for more than 21 credit hours, except with approval from the Academic Standards Committee review process.

Lower Division: A student who has earned 25 or more semester hours credit is classified as a sophomore. Lower Division coursework is denoted as 1000 and 2000 level.

Upper Division: A student who has earned 61 or more semester hours credit is classified as a Junior. A student who has earned 91 or more semester hours credit is classified as a senior. Upper Division coursework is denoted as 3000 and 4000 level.

Transcript Evaluation
The College now utilizes computerized software to produce official transcripts. Transcripts should be sent to Broward College, College Registrar’s Office, 225 East Las Olas Blvd., Fort Lauderdale, Florida, 33301, prior to the students’ term of enrollment. Students who have completed post-secondary work outside of the United States are required to provide a commercial evaluation of all coursework completed. An official evaluation of credit courses' transferability is made after the student is admitted to the College. All official transcripts from previously attended institutions must be received before an official evaluation is considered complete. Transfer credits may be accepted from regionally accredited colleges or universities and/or from institutions belonging to the Florida State Common Course Numbering System or from out-of-country universities when commercial evaluations of those transcripts are provided. In some instances, transferability of credits is done on a course-by-course analysis.

Broward College shall honor suspension and dismissal sanctions imposed by institutions from which students transfer. Consequently, students seeking admission to the College must meet with an academic advisor to submit an Academic Standards Petition. Transfer students who have already completed an A.A. or baccalaureate degree at another college or university, cannot enroll in an A.A. degree program at BC.

Academic Standards of Progress
Broward College strives to provide the highest quality of instructional and support services. Students accepted into certificate and degree programs will be continually evaluated to ensure that standards of progress are achieved and to identify and provide assistance to students who experience academic difficulties. BC is committed to providing assistance for all students in order to provide an optimal learning experience so that students will be able to succeed in achieving their educational goals.

College regulations regarding academic standards of progress apply to all degree and certificate students and it aligns to eligibility requirements for continued Federal financial aid (see policy on Student Financial Services Programs 5.11). In determining academic progress, college credit, vocational credit and college preparatory credit are combined in the term and cumulative grade point averages. "Earned Credit" is defined as all courses in which the student receives a grade. Courses taken for audit, courses for which a student receives a refund, and courses in which a student has withdrawn during the withdrawal period will not be included in the determination of academic standing.

Good Academic Standing
Maintain a grade point average (GPA) of 2.0 or higher.

Academic Warning
Any student who does not achieve a degree GPA or cumulative GPA of 2.0 or higher in a term will be placed on academic warning. Students on academic warning will be notified and should see an academic advisor or counselor prior to registering for the next term. A student will be removed from academic warning when he/she earns both degree and cumulative GPAs of at least a 2.0. A student on academic warning who fails to achieve a term GPA of 2.0 or higher for two successive terms of enrollment will be placed on academic probation, which is the next level of academic intervention.

Academic Probation
A student on academic warning who fails to achieve a term GPA of 2.0 or higher for two successive terms will be placed on academic probation. Students on academic probation will be required to see an academic advisor or counselor prior to registering for the next term. The status of students who demonstrate forward progress by earning two successive term GPAs of at least a 2.0 will be changed from probation status to warning status. A student on academic probation who fails to achieve a term GPA of 2.0 or higher for two successive terms will be placed on academic suspension, which is the next level of academic intervention. To be removed from academic probation, a student must earn a term GPA of 2.0 or higher for two successive terms of enrollment.
The following grades do not affect the GPA:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Incomplete  0</td>
</tr>
<tr>
<td>P</td>
<td>A grade satisfactory at a pace but has not completed the course 0</td>
</tr>
<tr>
<td>W</td>
<td>Official Withdrawal 0</td>
</tr>
<tr>
<td>WN</td>
<td>Non-Attendance 0</td>
</tr>
<tr>
<td>X</td>
<td>Audit 0</td>
</tr>
<tr>
<td>XC</td>
<td>Audit status after drop/add period and prior to audit deadline is accepted on a third attempt 0</td>
</tr>
<tr>
<td>XW</td>
<td>Audit Withdrawal 0</td>
</tr>
<tr>
<td>NC</td>
<td>Non-credit courses 0</td>
</tr>
<tr>
<td>NG</td>
<td>No Grade Assigned 0</td>
</tr>
<tr>
<td>NR</td>
<td>Grade not received 0</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory 0</td>
</tr>
</tbody>
</table>

Incomplete Grade “I”

An incomplete “I” grade may be given in courses for a student who has a reasonable chance of successfully completing the course. The student will enroll in the required course work by the end of the term may be required to provide documentation for extenuating circumstances. The student may make arrangements to complete the work prior to the end of the next major term. Summer terms are not considered in this time limit. If no change is initiated during the next major term, the “I” will automatically become an “F” on the student’s permanent record. If the course is not completed the grade and recalculated GPA will be placed on the student’s transcript.

Official Withdrawal “W”

Florida State Board of Education requires students to adhere to the following procedures relating to the award of a “W” as a result of a student’s non-attendance during a course. Students entering specialized programs, such as the health science program, may choose to meet graduation requirements specified in either the BC catalog or the BC applicable catalog.

Final Grades and Records

Final grades for each term are retained permanently. Grade point averages for graduation and honors are calculated only on college and vocational level academic work and include incompletes at all colleges.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent 4</td>
</tr>
<tr>
<td>B</td>
<td>Good 3</td>
</tr>
<tr>
<td>C</td>
<td>Average 2</td>
</tr>
<tr>
<td>D</td>
<td>Passing 1</td>
</tr>
<tr>
<td>F</td>
<td>Failure 0</td>
</tr>
</tbody>
</table>

The transcript will indicate a course was audited by listing an “X” grade, but an “XW” indicating withdrawal may be given to the student at the discretion of a Faculty member for failure to attend or class registration requirements. A student who audited a course must adhere toIncomplete term requirements. No grade will be assigned and no credit will be awarded. An audit count will be an attempt whether or not such enrollment status is declared after the drop/add period.

Audit-X, XC and SW

A student should indicate the desire to audit a course when registering for the course and cannot change from audit to credit after the drop/add period. Up to the end of the withdrawal period, a student may change from credit to audit with the permission of the Faculty member. A student who audits a course must adhere toIncomplete term requirements. No grade will be assigned and no credit will be awarded. An audit count will be an attempt whether or not such enrollment status is declared after the drop/add period.

Grade forgiveness Policy

A student who has completed a course and desires to improve his/her grade for that course may repeat the course only if he/she has earned a “D” or “F” grade. The number of repeat attempts is limited to two per course.

Applicable Catalog

A student who is continuously enrolled in degree, certificate or diploma programs (except summer terms) from initial enrollment to graduation. If a student attends on two or more major terms and has met the requirements of the catalog in effect when initially enrolled or the catalog in effect at the time of graduation. If a student’s attendance is interrupted by two or more major terms and has not met the requirements of the catalog in effect at the time of re-entry, or at the time of graduation. A student cannot graduate under a catalog in effect at the time of initial enrollment if the College has eliminated the degree, certificate or diploma program.

Students entering specialized programs, such as the health science programs, may graduate under the provision of the catalog in effect when the student was admitted to the specialized program.

Receivin Credit

Students may graduate with honors in three grade point categories.

Bachelor’s Level:

Cum Laude: overall GPA of 3.500-3.749

Magna Cum Laude: overall GPA of 3.750-3.799

Summa Cum Laude: overall GPA of 3.750-4.000

Associate and Certificate Levels

Honors: overall GPA of 3.500-3.999

High Honors: overall GPA of 3.800-3.999

Highest Honors: overall GPA of 3.750-4.000

Honor Students are recognized at graduation and honors designations will be shown on final transcripts.

Semester Credit Hour

For degree, technical certificate and Applied Technology programs the unit of credit is the semester credit hour, representing 15-16 hours of lecture instruction with 50-minute class periods. Generally, 30-30 hours of laboratory work count as one unit of credit. Courses will vary in the number of hours (5-16) and the number of times per week are adjusted to include the same time equivalent as the 16 week term.

Semester System

The academic year is divided into 5 semesters, also known as Terms. Each Term contains several Sessions of varying lengths to provide flexibility in course scheduling. Minimum credit, class meeting times are adjusted during the abbreviated Sessions.

Terms 1 (fall) and 2 (winter) are approximately 12 weeks in length. Each of these terms includes a Session 2, and a Session 4 of approximately eight weeks in length; and a Session 3 of approximately 12 weeks in length.

Term III (summer) is approximately twelve weeks in length. Term III includes Session 1, which is 12 weeks in length, and Sessions 2 and 3 which are six week sessions.

Grade Forgiveness Policy

A student may complete a course and desires to improve his/her grade for that course may repeat the course only if he/she has earned a “D” or “F” grade. The number of repeat attempts is limited to two per course.
Repeating a course removes the previous grade only from a student's grade point average. The original grade remains on the transcript, but only the grade earned in the last attempt is used for calculating the grade point average. The Student Ombudsman agreement does not allow courses to be repeated for the purpose of changing a student's grade point average after the associate degree has been awarded.

Maximum Attempts Per Course

Per State Board of Education Rule 6A-14.0301, a student may have only three attempts to complete a course. An attempt is defined as enrollment after the associate degree has been awarded. This regulation also provides for exceptions to this extra fee if the credit hours were earned under certain circumstances and are not calculated as hours required to complete the bachelor’s degree. Review 6A-14.0301 for more detailed information. The statute is available online at www.fldhhr.gov.

Student Ombudsman

The Campus Dean of Student Affairs shall serve as the campus and Student Ombudsman, and will serve as the campus Ombudsman for student’s general issues and concerns. The campus Dean of Students will guide students to appropriate personnel, and provide students with a summary of college policies and procedures. The College Ombudsman is the Vice President for Student Affairs and Enrollment Management.

If a student’s issue is related to academic standards of progress, graduation requirements, access to courses, or other academic policies, the Campus Dean of Student Affairs, or program Dean for limited access programs, will refer the student to the Academic Standards Committee. The Academic Standards Committee makes recommendations to the Vice President for Student Affairs and Enrollment Management upon reviewing the student’s petition and/or after requiring the student to appear before the committee and interviewing the student regarding the circumstances. The Vice President for Student Affairs and Enrollment Management may accept the recommendations of the committee or make a different determination based on the facts and information presented by the student and/or the committee.

Academic Standards Committee

Broward College students, who seek exceptions to the rules, regulations, and requirements of the College, or revocation of dismissal from the College or other institution for academic or disciplinary reasons, must submit their requests in writing to the Student Academic Standards Committee. The Academic Standards Committee reviews petitions for exceptions from BC student matters related to college rules, regulations and requirements, including but not limited to: standards of progress, graduation requirements, and repeating courses. The Committee makes recommendations to the Vice President for Student Affairs and Enrollment Management.

The following procedure shall apply to requests for exceptions to established academic policies:

1. The student shall complete the Academic Standards Petition that is available online and at all student affairs offices. The Petition shall include all pertinent and relevant documentation such as transcripts, letters from the transferring institution, or medical documents. If the petition is a request for admission while on suspension or dismissal from another institution, the student should include a letter of support (if available) to attend Broward College from the previously attended institution.

2. All requests for fourth (4th) course attempts must include a science course and the associated laboratory. Students cannot take one without the other. If you drop one, you must drop the other. Co-requisite academic requirements are stated within the course description section of this catalog.

Students should know what the academic requirements are before attempting to register for a course. Check the course description in this catalog.

Excess Credit Hours

Florida law F.S. 1009.286 requires colleges to encourage students, who intend to enroll in a state university, to complete their respective degree program with only credit that can be applied to their degree program of study to avoid excess hours. Effective July 1, 2009 and amended 2011, state universities shall require a student to pay an excess hour surcharge equal to out of state tuition rates at over 115 percent of the number of credit hours required to complete the program. The law also provides for exceptions to this extra fee if the credit hours were earned under certain circumstances and are not calculated as hours required to complete the bachelor’s degree. Review 1009.286(3) for more detailed information. The statute is available online at www.fldhhr.gov.

Breaches of Broward College's policy on academic honesty may result in academic penalties and/or disciplinary action. At the discretion of the instructor, academic penalties may include, but are not limited to, a failing grade for a particular assignment or a failing grade for the course. In addition, the instructor or another BC employee may refer a student to the Dean of Student Affairs for student disciplinary action in accordance with the BC Student Handbook. Such discipline may include suspension or expulsion from the College.

Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA) (20 U.S.C. § 1232g; 34 CFR Part 99) is a Federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. For more information about FERPA, please review the Section on Student Rights and Responsibilities in this Catalog.
1. Architecture & Construction

AA to Baccalaureate Programs
BC offers the AA degree that transfers to the State University System with the complete 36-credit-hour Baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- Architecture
- Interior Design

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

Career and Technical Education Programs including AS to Baccalaureate Programs

While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

- Building Construction Technology AS (2184)
- Building Construction Specialist TC (6315)

2. Business, Management, & Administration

AA to Baccalaureate Programs
BC offers the AA degree that transfers to the State University System with the complete 36-credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- Accounting
- Administration (e.g., Business, Health Service, Hospitality, Public, etc.)
- Advertising
- Business
- Economics & Policy
- Finance
- Real Estate
- Urban & Regional Planning

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

Career and Technical Education Programs including AS to Baccalaureate Programs

While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

- Accounting Technology AS (2100, 2100E)
- Accounting Applications, TC (62140, 6214E)
- Accounting Technology Operations TC (6523)
- Accounting Technology Specialist TC (6524)
- Business Administration AS (2119)
- Business Management TC (62671, 6267E)
- Business Specialist TC (6288, 6288E)
- Entrepreneurship Management TC (62674)
- Business Operations TC (6520)
- Sports Management TC (62673)
- Culinary Arts Management AS (2203)
- Hospitality and Tourism Management A.S (2121)
- Guest Services Specialist TC (6300, 6300E)
- Food and Beverage Management TC (6301)
- Rooms Division Management TC (6302)
- International Business Management AAS (A007)
- Industrial Management Technology AS (2194)
- Global Trade and Logistics AS (2205)
- Logistics & Transportation TC (6308)
- Legal Assisting (Paralegal Studies) AS (2172)
- Marketing Management AS (2126)
- Customer Service TC (62672)
- Marketing Operations TC (6240)
- Entrepreneurship TC (6311)
Office Administration AS
Legal Office Specialization (22111, 2211E)
Medical Office Specialization (22112, 2212E)
Office Management Specialization (22115, 2213E)
Office Software Applications Specialization (22114, 2214E)
Medical Office Management TC (6281, 6281E)
Office Management TC (6237, 6237E)
Office Specialist TC (6280, 6280E)
Office Support TC (6279, 6279E)
Sports, Fitness and Recreation Management AS (2191)

Baccalaureate Programs (Requires an Associate’s Degree or Dean’s Approval for Admission – see Program Sheets for details)
Supervision and Management BAS (T100)
Technology Management BAS (T200)

4. EDUCATION

AA to Baccalaureate Programs
BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- Criminal Justice
- Fire and Emergency Services
- Pre-Law

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

5. CRIMINAL JUSTICE, LAW, AND PUBLIC SAFETY

AA to Baccalaureate Programs
BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

Career and Technical Education Programs including AS to Baccalaureate Programs
While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

- Criminal Justice Technology AS
- Fire Science Management TC (6313)
- Emergency Management TC (6303, 6303E)
- Fire Science Technology AS (2118)
- Fire and Emergency Services
- Office Software Applications Specialization (22114, 2214E)
- Office Administration AS
- Office Support TC (6279, 6279E)
- Sports, Fitness and Recreation Management AS (2191)

For some of the program listed above, student must be hired by a municipality and be approved for training.

5. ENGINEERING & ENGINEERING TECHNOLOGY

AA to Baccalaureate Programs
BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- Aerospace Engineering
- Chemical Engineering
- Civil Engineering
- Coastal and Ocean Engineering
- Computer and Information Engineering
- Electrical – Electronics Engineering
- Manufacturing/Industrial Engineering
- Mechanical Engineering
- Nuclear Engineering

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

Career and Technical Education Programs including AS to Baccalaureate Programs
While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

- Engineering Technology AS (2207)
- Biomedical Engineering Technology ATC (4268)
- Alternative Energy Systems Specialist TC (6325)
- Electronics Aide TC (6322)

Baccalaureate Programs (Requires an Associate’s Degree for Admission – see Program Sheets for details)
Technology Management BAS (T200)
6. HEALTH SCIENCES

AA to Baccalaureate Programs

BC offers the State of Florida AA degree that transfers to the State's University System with the complete baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degree such as:

Dietetics
Food Science/Nutrition
Health Service Administration
Medical Technology Nutritional Science
Pharmacy
Pre-Chiropractic
Pre-Medical/Dental
Pre-Nursing
Pre-Occupational Therapy
Pre-Optometry
Pre-Physical Therapy
Pre-Veterinary Medicine
Radiologic (Medical) Technology
Therapeutic Recreation

See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.

Career and Technical Education Programs including AS to Baccalaureate Programs

While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

Basic Perioperative Nursing ATC (4265)
Dental Assisting AS (2113)
Dental Assisting ATD (B007)
Dental Hygiene AS (2145)
Emergency Medical Services AS (2160)
Emergency Medical Technician ATD (B010)
Paramedic TC (6208)
Health Information and Informatics Technology AS (2179)
Massage Therapy PSW (6281)
Medical Assisting PSW (5235)
Nuclear Medicine Technology AS (2102)
Hospital-Based Nuclear Medicine AS (21021)
Hospital-Based Radiography AS (21591)
Radiography AS (2131)
Hospital-Based Radiography AS (21312)
Diagnostic Medical Sonography Technology (Ultrasound) AS (2176)
Vision Care (Opticianry) AS (21891)

Upon successful completion of a BC Health Science program, students may sit for appropriate State Licensure and/or Certification exams.

Baccalaureate Programs (Requires an Associate's Degree or Dean's Approval for Admission – see Program Sheets for details)

RN to BSN Nursing BSN (N100) - Requires a Florida RN License for Admission – see Program Sheets for details

Supervision and Management BAS (T100)

7. HOSPITALITY & TOURISM MANAGEMENT

AA to Baccalaureate Programs

BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

Hospitality Administration
Leisure Service Management

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

Career and Technical Education Programs including AS to Baccalaureate Programs

While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

Calinary Arts Management AS (2005)
Hospitality and Tourism Management AS (2121)
Food and Beverage Management TC (6301)
Guest Services Specialist TC (6500, 6500E)
Rooms Division Management TC (6502)

Baccalaureate Programs (Requires an Associate's Degree or Dean's Approval for Admission – see Program Sheets for details)

Supervision and Management BAS

8. HUMANITIES

AA to Baccalaureate Programs

BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

African American Studies
English
Foreign Languages (French, German, Italian, Spanish, etc.)
Humanities
Jewish Studies
Philosophy
Religious Studies
Women's Studies

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

9. INFORMATION TECHNOLOGY

AA to Baccalaureate Programs

BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

Computer and Information Engineering
Computer and Information Science
Computer Engineering
Computer Science
Information Sciences
Information Sciences and Systems
Management Information Systems

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.
Microsoft Office Specialist (MOS) TC (62823)
Support Technician TC (6284)
Database Technology AS (2209)
Engineering Technology AS (2207)
Biomedical Engineering Technology ATC (4268)
Alternative Energy Systems Specialist TC (6295)
Electronics Aide TC (6322)
Technical Support Specialist AS (21953)
Internet Services Technology AS (2196)
Website Designer Option TC (6286)
Networking Services Technology AS (2201)
Cisco CCNA TC (6287)
Microsoft MCTTP – TC (6285)
Network Support Technician TC (6282)

Baccalaureate Programs (Requires an Associate's Degree or Dean's Approval for Admission – see Program Sheet for details)
Information Technology BAS (T300)
Supervision and Management BAS (T100)
Technology Management BAS (T210)

10. LIBERAL ARTS & SCIENCES
AA to Baccalaureate Programs
BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

Liberal Arts & Sciences
See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.

11. MASS COMMUNICATION, GRAPHIC DESIGN & MULTIMEDIA
AA to Baccalaureate Programs
BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

Art
Graphic Design
Journalism
Mass communications
Public Relations
Public Relations & Organizational Communications
Radio & Television Broadcasting
Speech Pathology Audiology

See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.

Career and Technical Education Programs including AS to Baccalaureate Programs
While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

Digital Media/Multimedia Technology AAS (A018)
Digital Media/Multimedia Production TC (6286)
Digital Media Web Production Technician TC (6287)
Graphic Design Technology AS (2195)
Graphic Design Production TC (6289)
Graphic Design Support TC (6290)
Internet Services Technology AS (2196)
Website Designer Option TC (6285)

12. MATH AND SCIENCE
AA to Baccalaureate Programs
BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

Actuarial Science
Applied Math/Math Science
Astronomy
Biochemistry
Biological Sciences (Biology, Botany, Ecology, Entomology, Marine/Aquatic Biology, Zoology, etc.)
Chemistry
Environmental Science
Exercise Science
Forensic Science
Forest Resources and Conservation Geology
Horticulture Science
Mathematics
Marine, Natural Resources Parks & Recreation
Math Teacher Education
Physics
Science Teacher Education
Statistics

See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.

Career and Technical Education Programs including AS to Baccalaureate Programs
While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

Engineering Technology AS (2207)
Biomedical Engineering Technology ATC (4268)
Alternative Energy Systems Specialist TC (6295)
Electronics Aide TC (6322)
Environmental Science Technology AS (2182)
Geographic Information Systems ATC (4277)

Baccalaureate Programs (Requires an Associate in Arts Degree for Admission – see Program Sheets for details)
Exceptional Student Education (S100)
Middle Grades General Science (S200)
Middle Grades Mathematics (S400)
Secondary Biology (S300)
Secondary Mathematics (S500)

13. SOCIAL AND BEHAVIORAL SCIENCES
AA to Baccalaureate Programs
BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

Anthropology
Economics
Geography
International Relations
Latin American Studies
Political Science
Psychology
Sociology
Social studies
Social Sciences
Social Work
Sociology
Women’s Studies
History

See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.
14. TRANSPORTATION

AA to Baccalaureate Programs

BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- Aerospace Engineering
- Transportation Management
- Urban & Regional Planning

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

Career and Technical Education Programs including AS to Baccalaureate Programs

While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

- Automotive Service Management Technology AAS (A004)
- Automotive Technology, Dealer Specific AAS (A037)
- Air Traffic Control AAS (A039)
- Aviation Operations AS (2105, 2105E)
- Aviation Maintenance Management, AS (2204)
- Aircraft Airframe Mechanics, PSAV (5272)
- Aircraft Powerplant Mechanics, PSAV (6273)
- Aeronautics PSAV (6299)
- Professional Pilot Technology, AS (2107)
- Global Trade and Logistics AS (220B)
- Business Specialist: Logistics Specialist TC (6308)
- Marine Engineering Management, AS (2198)
- Marine Technology TC (6306)

Baccalaureate Programs (Requires an Associate's Degree or Dean's Approval for Admission – see Program Sheets for details)

Supervision and Management BAS (T100)

15. VISUAL AND PERFORMING ARTS

AA to Baccalaureate Programs

BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- Art (Graphic Design, History & Appreciation, Teacher Education, Studio/Fine Arts, etc.)
- Dance (Education, Performance, etc.)
- Dramatic Arts/Theatre
- Music (Composition, History & Appreciation, Performance, Management & Merchandising, etc.)

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

Career and Technical Education Programs including AS to Baccalaureate Programs

While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

- Digital Media/Multimedia Technology AAS (A018)
- Digital Media/Multimedia Production TC (6286)
- Digital Media Web Production TC (6287)
- Graphic Design Technology AS (2192)
- Graphic Design Production TC (6289)
- Graphic Design Support TC (6290)
- Internet Services Technology AS (2176)
- Website Designer Option TC (6285)
- Music Technology AS (2206)
- Audio Technology TC (6309)

ACADEMIC PROGRAMS AND GrADUATION REQUIREMENTS

Developmental Education Program

Broward College is committed to the philosophy that all students should be offered the opportunity to achieve their maximum potential. To attain this goal, BC offers a Developmental Education Program to help students develop the skills necessary for academic success in college level courses. The Developmental Ed curriculum includes courses in Mathematics, English, Reading and English as a Second Language (ESL).

Math
- MAT 0018 ENC 0015 REA 0007C
- MAT 0028 ENC 0025 REA 0017C
- MAT 0022 REA0055
- MAT0990
- MAT0556
- MAT0566

ESL

- Communication Reading Composition
- EAP0100c EAP0120c EAP0150c
- EAP0200c EAP0220c EAP0250c
- EAP0300c EAP0320c EAP0350c
- EAP0400c EAP0420c EAP0450c

Placement into the Developmental Education Program

Developmental Education course requirements are determined on the basis of a student’s placement test scores. All students entering BC must take the Florida Postsecondary Education Readiness Test (PERT), or acceptable Advanced Placement, SAT, ACT or FCAT scores that exempt them from the developmental education program or they must submit college transcripts that show the completion of Freshman English and/or Intermediate Algebra. Students who test and do not achieve the minimum cut scores in reading, writing and mathematics will be enrolled in developmental education coursework or an alternative program of study that requires no such proficiency. Students who test into developmental education courses must successfully complete all of the required coursework to qualify for graduation. Students should contact any Counseling and Advising Office to arrange for placement testing or to discuss their existing placement test scores.

Placement Test Options

1. Enhanced ACT (American College Testing Program)
2. SAT I
3. Accuplacer/CPT (The College Board)
4. Postsecondary Education Readiness Test (PERT).

A student having an initial PERT, CPT, ACT or SAT score that indicates developmental ed placement may retest with the PERT once within a 24 month period after participating in remediation or skill review. Additional retests may be authorized after additional remediation. A fee will be charged for each re-test with the PERT. Students who register who then decide to withdraw from course in progress will be responsible for 100% of the cost for withdrawals after the drop/dilapid period. The new PERT score earned may allow the student to progress to a different point in the sequence of classes in future semesters. Exceptions may be made by the appropriate academic administrator.

Developmental Education Credit

Developmental Education courses carry credit, but the credits cannot be used to satisfy degree requirements. Students can use veteran's benefits and financial aid to assist in paying for these courses up to a specified number of credit hours.

Enrolling in College Prep Courses

Students who are required to take college prep courses, as a result of their placement test scores on the SAT, ACT, CPT, or PERT must register for such courses each term until all required courses are successfully completed. In addition, the following restrictions for course sequencing will apply and increase a student's chances for academic success:

- Students who test into two or more college prep disciplines (ENC, MAT, and REA) are limited to 12 credits in a full term and seven credits in a summer term.
- Students are required to register for the college prep reading course during their first term.
- Students who test into REA9007C are required to register for the course during their first term.
- Students who test into REA9007C are required to register for the course during their first term.
- Students are required to test into at least two college prep disciplines (ENC, MAT, and REA) to take SLS1101, College Success Skills, during their first 9 credits. (This one credit course serves as an introduction to BC and teaches students strategies and skills to help them succeed in college.). Students may substitute SLS1001, Strategies for Success, for SLS1101.

Private Providers

Students who have the option of pursuing college prep instruction through programs offered by private providers of instruction. Students interested in this option should obtain additional information from any campus Student Affairs office. Students exercising this option must retain and pass the appropriate sections of the PERT, the Postsecondary Education Readiness Test, prior to enrolling in college-level courses.

Note: Private providers are not affiliated with BC and the College neither endorses nor warrants their services. BC assumes no responsibility related to the operations of these providers, and specifically disclaims any and all liabilities resulting from, or arising out of, or in connection with, students’ use of their products and services.

Maximum Attempts Per Course

Based on state regulations, students may enroll no more than three times in any particular college prep course. Students may not "audit" college prep courses. Students will be assessed the full cost of instruction for the third attempt. Exceptions may be granted based on documented financial or extenuating circumstances. Details about petitioning for an exemption are available in any campus Counseling and Advising Office.
**GENERAL EDUCATION AT BROWARD COLLEGE**

**Philosophy of General Education**

General Education at Broward College is a core of common learning experiences that enables students to acquire and apply a broad foundation of integrated knowledge, skills, and behaviors. The core curriculum assures breadth that cannot be found in any specific discipline. In particular, literacy and communication skills, in all their forms, are reinforced throughout the students' program of study. Further, the program provides opportunities for students to apply their acquired knowledge and skills in solving increasingly complex problems. This prepares students to be independent, lifelong learners, assuming roles of responsibility in the global community.

**Expected Educational Results**

The College believes that a well-educated person is one who possesses the intellectual capabilities, skills and behaviors to:

- Read with critical comprehension
- Write clearly and coherently
- Demonstrate literacy as appropriate within a given discipline
- Apply problem solving skills or methods to make informed decisions in a variety of contexts
- Differentiate between ethical and unethical behavior
- Demonstrate an understanding of the physical, biological, and social environments and how individual behaviors impact this complex system
- Demonstrate an understanding of and appreciation for human diversities and commonalities
- Speak and listen effectively

**Selection of General Education Courses**

The College offers four different types of degrees, the Associate in Arts (AA), numerous Associate in Science (AS), the Associate in Applied Science (AAS) and several baccalaureate degrees (BAS, BSED, and BSN). Different degrees have different General Education requirements based upon:

- Florida Statutes (1001.02, 1007.23, 1007.25),
- State Board of Education Rules (6A-14.030 and 6A-10.024),
- Southern Association of Colleges and Schools – Commission on Colleges (SACSCOC) Core Requirement 2.7.3 & Comprehensive Standard 3.5.1, and
- Broward College’s Policy (4.22).

Broward College requires a total of 36 credits of General Education coursework in communication, mathematics, social/behavioral sciences, humanities, natural sciences and wellness for the AA and baccalaureate degree programs. For the AS and AAS degrees, Broward College requires 15 credits within the subject areas of communication, humanities, social/behavioral sciences and mathematics/natural sciences.

These requirements are listed in following sections.

**General Education Block Transfer Guarantee for AA Degree Students**

Per State Board of Education Rule 6A-10.024, once a student has been certified by an institution on the official transcript as having completed satisfactorily its prescribed general education core curriculum, regardless of whether the associate degree is conferred, no other public postsecondary institution to which he or she may transfer in Florida shall require any further such general education courses.
GENERAL EDUCATION COURSES BY AREA AND GROUP

AREA 1 WRITTEN COMMUNICATIONS

Group 1
ENC 1101 Composition C, W  3

Group 2
ENC 1102 Composition C, W  3
ENC 2210 Professional and Technical Writing W  3

Group 3
PHI 2600 Introduction to Ethics 3

Group 7 Religion
REL 2000 Introduction to the Study of Religion W  3
REL 2300 World Religions C, W  4

AREA 3 SOCIAL/BEHAVIORAL SCIENCES

Group 1
AMH 2010 History of the United States to 1865 C, W  3
AMH 2020 History of the United States since 1865 C, W  3

Group 2
AMH 2030 History of the United States to 1877 C, W  3
AMH 2091 History of the African American C, I, W  3

Group 3
EUL 1001 Western Civilization I, C, I, W  3
EUL 1002 Western Civilization II C, I, W  3

Group 4
GEA 2000 World Geography I 3
GEA 2040 Geography of the Western World I 3

Group 5
GEO 1000 Introduction to Geography 3

Group 6
GEO 2240 Introduction to Human and Cultural Geography I 3

Group 7
INR 2021 Introduction to International Relations I, W  3

Group 8
LAH 1004 History of the Two Americas I 3
LAH 1005 History of the Two Americas II 3

Group 9
POS 2101 Introduction to American Government W  3
POS 2112 State and Local Government W  3

Group 10
WCH 2041 World in the Twentieth-Century I, C  3

Group 11
ANT 2000 Introduction to Anthropology I, W  3

Group 12
ANT 2101 Introduction to World Ethnology I, W  3

Group 13
DEP 2041 Developmental Psychology C, W  3

AREA 4 SCIENCE AND WELLNESS

Group 1 Biological Sciences
BRT 2010 General Botany 3

Group 2 Environmental Science
BRT 2010 General Botany 3
BST 1010 Introduction to Biology I 3
BST 2010 Introduction to Biology II 3

Group 3 Physical Sciences
AST 1002L Astronomy Laboratory 1

Group 4 Earth Sciences
ZOO 2010L General Zoology Lab 1

Group 5 Mathematics
BOC 2010 General Math I 3

Group 6 Physical Sciences
BSC 1010L Introduction to Biology I Lab* 1

Group 7 Mathematics
BSC 1010L Introduction to Biology I Lab* 1

Group 8 Health Sciences
HLP 1031L Physiology/Anatomy II Lab 1

Group 9 Computer Science
GLY 1001L Earth Science Lab 1

Group 10 History
LYI 2010L American Sign Language II 1

Group 11 History
LYI 2010L American Sign Language II 1

Group 12 History
OCO 2001L Introduction to Anthropology I 1

Area 6 oral communications

W - indicates courses that also count for the writing requirement in the AA and baccalaureate degrees.
C - indicates courses that also count for the international/intercultural requirement in the AA and baccalaureate degrees.
I - indicates courses that also count for the International/Intercultural Requirement in the AA and baccalaureate degrees.

ACADEMIC PROGRAM REQUIREMENTS

Associate in Arts (AA) degree

Broward College offers the Associate in Arts degree with a wide variety of course options to enable students to seamlessly transfer to the state university system. More information regarding AA options may be obtained from the web site online at www.broward.edu/programs or from any Academic Advisor.

AA Mission Statement

The Associate in Arts degree provides courses of study equivalent to the first two years of study to freshmen and sophomore students in the lower division of Florida’s state universities. Students are encouraged to meet with an academic advisor to construct their educational plans to include prerequisite requirements for major area of study. Students should also consult with an advisor at the university of their choice prior to making course selections to avoid taking excess credit hours or to determine additional university requirements. If students follow the State’s Common Requisite manual when selecting their coursework, the AA degree they receive from BC should meet the lower division requirements of the designated state university and allow them to be admitted at the junior-level. The AA degree includes 36 semester hours of General Education courses in addition to courses appropriate for the upper division major selected by the student. The College’s General Education requirements are within the subject areas of communications, mathematics, social sciences, humanities, and natural sciences. Apart from its transfer function, the degree provides students with the opportunity to gain competencies necessary to be participating and productive members of a democratic society.

Students are encouraged to contact the specific institution they wish to transfer to for freshman and sophomore students in the lower division of Florida’s state universities.

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AA GENERAL EDUCATION REQUIREMENTS

SEE THE APPROVED LIST OF GENERAL EDUCATION COURSES OFFERED AT BROWARD COLLEGE IN THIS CATALOG.

Written Communications   6 Credits
Select two courses, one from Group 1 and Group 2.

Humansities   6 Credits
Select two courses. Choose only one course from any of the Groups, 1 through 7.

Social/Behavioral Sciences   6 Credits
Select one course from Group 1 and one from Group 2.

Science/Wellness   9 Credits
Select four courses, one from each Group, 1 through 4

Total General Education (Areas 1-6)   36 Credits

Programmatic Electives   24 Credits
When choosing electives, students should give careful attention to their major field of study and to the requirements of the institution to which they plan to transfer. Certain technical/occupational courses can be used to satisfy this area requirement. Electives may include any combination of college-level courses that are identified for the AA degree. These include courses identified as "common prerequisites" as well as General Education courses. Excluded are college preparatory courses and courses designed especially for technical education curricula. Please consult with an Academic Advisor regarding your course selections.

Writing Requirement
In keeping with the Gordon Rule, students must take one course from General Education Group 1A and one course from Group 1B, which satisfies one component of the requirement. The remaining component can be satisfied by taking two (2) other courses designated as writing courses in the term schedule. In each of these courses, a variety of assignments relevant to the content of the course may be made. Students must achieve a grade of "C" or higher in the courses to satisfy the writing requirement. Students must be eligible for ENC1101 to enroll in designated writing-credit courses. A complete list of courses that count towards the Writing Requirement are listed under the heading of the Gordon Rule.

Some students who were enrolled in an accredited college or university prior to January 1, 1983, may be exempt from the Writing Requirement. Please see an Academic Advisor for assistance.

International/Intercultural Requirement   3 Credits
Or the 36-credit General Education requirement, these credits must be earned in an approved international/intercultural course. Only the following approved courses from the General Education offerings may be used to satisfy this requirement.

Foreign Language Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Division</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 2011</td>
<td>History of the African Americans</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>AML 2604</td>
<td>African American Literature</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>AML 2631</td>
<td>Hispanic American Literature</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>ANT 2000</td>
<td>Introduction to Anthropology</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>ANT 2210</td>
<td>Introduction to World Archaeology</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>ART 1011</td>
<td>Art History I</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>ART 2011</td>
<td>Art History II</td>
<td>G, W</td>
<td>3</td>
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<tr>
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<td>British Literature</td>
<td>G, W</td>
<td>3</td>
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<td>ENS 2002</td>
<td>British Literature</td>
<td>G, W</td>
<td>3</td>
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<td>EUH 1000</td>
<td>Western Civilization I</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>EUH 1001</td>
<td>Western Civilization II</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>GE 2000</td>
<td>World Geography</td>
<td>G, W</td>
<td>3</td>
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<td>GEO 2050</td>
<td>Geography of the Eastern World</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>GEO 2040</td>
<td>Geography of the Western World</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>GEO 2055</td>
<td>Conservation of Natural Resources</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>GEO 2420</td>
<td>Introduction to Human and Cultural Geography</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>INR 2002</td>
<td>Introduction to International Relations</td>
<td>G, W</td>
<td>3</td>
</tr>
<tr>
<td>LAH 1004</td>
<td>History of the Two Americas I</td>
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<td>LAH 1005</td>
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<td>LST 2020</td>
<td>Introduction to the Short Story</td>
<td>G, W</td>
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<td>LST 2100</td>
<td>World Literature Through Renaissance I</td>
<td>G, W</td>
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<td>MUL 2000</td>
<td>Music Appreciation</td>
<td>G, W</td>
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<td>REL 2300</td>
<td>World Religions</td>
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<td>SYG 2000</td>
<td>Principles of Sociology</td>
<td>G, W</td>
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<tr>
<td>WPE 2040</td>
<td>World in the 20th Century</td>
<td>G, W</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: All courses should be selected from those listed in the General Education Core.

The Gordon Rule
State Board of Education Rule 6A-10.030, known as the Gordon Rule, requires that students graduating with an Associate in Arts Degree meet the following provisions in the areas of Writing and Mathematics. All students seeking an AA or B.A. degree must meet these requirements by the end of the sophomore year.

Writing
In order to comply with the Gordon Rule, all students are required to demonstrate college-level writing skills in their two (2) required
Mathematics
All students must complete six credit hours at the college algebra level or higher. For most students, the requirement is met by taking any two of MATH 1030C, MATH 1050C, MATH 1090C, MATH 1900C, or MATH 2010G.

Transfer Guarantees
The Florida College System Associate in Arts graduates are guaranteed the following in-state transfers to a State university under the statewide transfer articulation (State Board of Education Rule 6A-10.024).

1. Admission to one of the State Universities, except to limited access programs that have additional admission requirements.
2. Acceptance of at least 60 credit hours by the State University toward the baccalaureate degree.
3. Acceptance by the State Universities of credit earned in accelerated programs.
4. Transfer of equivalent courses under the Statewide Course Numbering System.
5. Acceptance by the State Universities of credits earned in accelerated programs.

Intercultural Requirement in the AA and baccalaureate degrees.
Specific articulation agreements have been developed ensuring the courses, which may or may not transfer. The General Education courses will transfer and may apply toward the state university's General Education degree graduation requirements.

Associate in Applied Science Degree Programs
Broward College offers a wide variety of concentrations within the AS degree. Visit the web site online at www.broward.edu/ or see an Academic Advisor for assistance.

Associate in Applied Science Degree Programs
Broward College offers a wide variety of concentrations within the AS degree. Visit the web site online at www.broward.edu/ or see an Academic Advisor for assistance.

Associate in Science Degree Program
Broward College offers a wide variety of concentrations within the AS degree. Visit the web site online at www.broward.edu/ or see an Academic Advisor for assistance.

AS Degree Graduation Requirements
• Complete the minimum number of required college-level semester credit hours as established for your specific program in Florida State Board of Education Rules.
• Complete the program of study as set forth in the applicable catalog.
• Complete a minimum of fifteen college-level semester credit hours of the prescribed program’s transferable General Education courses that include the following: ENC 1101, three credits in Social/Behavioral Sciences, three credits in Humanities, three credits in Natural Sciences/Mathematics, and three credits designated by the program.
• Complete the oral communication competency requirement as specified in the prescribed program.
• Students must complete the computer literacy requirement within the first 15 credit hours of enrollment at BC by successfully completing the basic student technology test or passing the CGS100C course.
• Complete the prescribed college preparatory and English as a Second Language Program courses, if required, with a grade of "C" or higher.
• Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the AS degree.
• Fulfill all financial and other obligations to the College.

AS General Education Requirements
For AS programs that provide students with an elective option in Humanities, Social/Behavioral Sciences, or Math/Natural Science, student should select a course from the approved list of General Education courses offered at Broward College in this catalog.

Communications
ENC 1101 Composition I 3 Credits

Hearth
For programs that require a “General Education Humanities” course, a course must be selected from the approved list for Humanities General Education Groups 1, 3, 4, 5, 6, and 7. Note that foreign language courses (Group 2) cannot be used for the Humanities General Education AS degree requirement.

Social/Behavioral Sciences 3 Credits
For programs that require a “General Education Social/Behavioral Sciences” course, a course must be selected from the approved list for Social/Behavioral Sciences General Education Groups 1 or 2.

Natural Science 3 Credits
For programs that require the “General Education Science” course, a course must be selected from the approved list for Natural Science General Education Groups 1 or 2.

Mathematics
For programs that require the “General Education Mathematics” course, a course must be selected from the approved list for Mathematics General Education Area 6.

Total 15 Credits

AAS Degree Graduation Requirements
For AAS programs that provide students with an elective option in Humanities, Social/Behavioral Sciences, or Math/Natural Science, student should select a course from the approved list of General Education courses offered at Broward College in this catalog.

Communications
ENC 1101 Composition I 3 Credits

Hearths
For programs that require a “General Education Humanities” course, a course must be selected from the approved list for Humanities General Education Groups 1, 3, 4, 5, 6, and 7. Note that foreign language courses (Group 2) cannot be used for the Humanities General Education AS degree requirement.

Social/Behavioral Sciences 3 Credits
For programs that require a “General Education Social/Behavioral Sciences” course, a course must be selected from the approved list for Social/Behavioral Sciences General Education Groups 1 or 2.

Natural Science 3 Credits
For programs that require the “General Education Science” course, a course must be selected from the approved list for Natural Science General Education Groups 1 or 2.

Mathematics
For programs that require the “General Education Mathematics” course, a course must be selected from the approved list for Mathematics General Education Area 6.

Total 15 Credits

AAS General Education Requirements
For AAS programs that provide students with an elective option in Humanities, Social/Behavioral Sciences, or Math/Natural Science, student should select a course from the approved list of General Education courses offered at Broward College in this catalog.

Communications
ENC 1101 Composition I 3 Credits

Humanities
For programs that require a “General Education Humanities” course, a course must be selected from the approved list for Humanities General Education Groups 1, 3, 4, 5, 6, and 7. Note that foreign language courses (Group 2) cannot be used for the Humanities General Education AS degree requirement.

Social/Behavioral Sciences 3 Credits
For programs that require a “General Education Social/Behavioral Sciences” course, a course must be selected from the approved list for Social/Behavioral Sciences General Education Groups 1 or 2.
Technical Certificate requirements

courses.

degree, thus permitting the student to receive credit for the certificate
of college-level technical courses that prepares students for immediate

technical competencies necessary to participate as productive members
an occupation or for advancement within their current occupations.

Certificate programs provide students with the opportunity to develop the

Mission Statement

BC offers a variety of concentrations in the several certificate programs.
Please visit our web site at www.broward.edu/programs or see an
Academic Advisor for assistance.

Certificate PROGRAMS

Technical Certificate

A Technical Certificate is a program of study of less than sixty credits of
college-level technical courses that prepares students for immediate
employment in a specific occupational field. It generally does not require
the completion of General Education courses. The Technical Certificate
may be part of an Associate in Science or an Associate in Applied Science
degree, thus permitting the student to receive credit for the certificate
courses.

Technical Certificate Requirements

• Complete the minimum number of required college-level semester credit hours as established for the specific program in Florida State Board of Education Rules.
• Complete the program of study as set forth in the applicable College catalog.
• Complete the prescribed college preparatory and English as a Second Language Program courses, if required, with a grade of “C” or higher.
• Complete 25% of the prescribed college-level semester credit hours at Broward College.
• Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the Technical Certificate.
• Complete the oral communication competency requirement as specified in the prescribed program.
• Students must fulfill the computer literacy requirement within the first 15 credit hours of enrollment at BC by successfully completing the basic student technology test or passing the CGS1060C course.
• Fulfill all financial and other obligations to the College.

Vocational Certificate

A Vocational Certificate is a program of study, usually one year or less,
consisting of a prescribed number of vocational credits (non-college-level
credits). One vocational credit is equal to 30 contact hours of classroom
instruction. The program focuses on providing students with the specific
skills for immediate job entry. The Vocational Certificate is awarded
upon completion of all vocational program courses and demonstration of
attainment of predetermined and specified performance requirements in
reading and mathematics as defined by Florida State Board of Education
Rules.

Vocational Certificate Requirements

• Complete the minimum number of required vocational clock/credit hours as established for the specific program in Florida State Board of Education Rules.
• Complete the program of study as set forth in the applicable College catalog.
• Achieve appropriate minimum basic skills grade levels established for the program on the Test of Adult Basic Education (TABE) or other tests designated by State Rules 6A-6.014 and 6A-10.040.
• Students pursuing a vocational certificate shall complete an entry-level basic skills examination within the first six (6) weeks after admission into the program.
• Students pursuing a vocational certificate who have an AA degree or who have met the minimum cut scores on any test listed in the above-mentioned rules, may be exempt from the test requirement.
• Complete 25% of the prescribed vocational clock/credit hours at Broward College.
• Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the Vocational Certificate. (For certificate programs with only satisfactory-unsatisfactory grades, earn a satisfactory grade in all courses.)
• Fulfill all financial and other obligations to the College.

Advanced Technical Certificate

The Advanced Technical Certificate (ATC) is a program of study consisting of
at least nine credit hours, but less than forty-five credit hours, of college-
level courses. The ATC is awarded to students who have already received
an Associate in Science or Associate in Applied Sciences, or related
undergraduate degree, and who are seeking an advanced specialized
program of study to supplement their degree.

Advanced Technical Certificate Requirements

• Complete the program of study as set forth in the applicable College catalog.
• Complete 25% of the prescribed college-level semester credit hours at Broward College.
• Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the Advanced Technical Certificate.
• Fulfill all financial and other obligations to the College.

Program-Designated Courses

AS degree programs include a General Education course from Area 1,
Area 2 (Groups 1, 3, 4, 5, 6 or 7), Area 3, Area 4 (Groups 1 or 2), or
Arens 5 or 6.

TOTAL

15 Credits
ACADEMICS

Institute for Economic Development .................................................. 105
Skill Refresher .................................................................................. 105
Center for Business and Industry ....................................................... 105
Health Science Continuing Education and Workforce Development ........................................ 105
RENEW ............................................................................................... 106
Lingua Center of Broward College ...................................................... 107

THE INSTITUTE FOR ECONOMIC DEVELOPMENT
The Institute for Economic Development is a vital part of the total program at Broward College. The Institute emphasizes the community by extending the College into the community through noncredit offerings and programs reaching beyond the traditional limits of the College. The Institute for Economic Development houses the following departments:

- Continuing Education Department
- Center for Business and Industry
- Health Science Continuing Education and Workforce Development
- RENEW
- Lingua Center at Broward College Education Department

www.broward.edu/ce (954) 201-7800

The Continuing Education Department offers non-credit courses that provide continuing professional education (CPE) for individuals wishing to upgrade their present skills, explore new occupational fields, personal education, intellectual enrichment and/or specialty programs.

Continuing Education courses vary in structure and length. Non-credit courses are offered at all BC campuses (North, Central, South), Tigertail Community Learning Center, Miramar Center, Hollywood Downtown Center, Weston Center and other community locations. Continuing Education students must complete a non-credit application to be able to take a Continuing Education course at Broward College. The application may be completed online through the online registration process, or it may be downloaded and faxed to 954-201-7882, or the student may come to a registration office on any of the college’s campuses. Continuing Education students do not pay an application fee. Out-of-state tuition does not apply to Continuing Education students, all fees are the same for all students. Students registered for Continuing Education courses are required to pay for the class before the first class meeting. Payment may be made online or at any of the college’s bursar offices.

Professional Development
- Aviation
- Business
- Child Care Certification
- Computers & Technology
- Building, Safety, Sustainability, and Trades
- Industry Certifications
- Insurance
- Language Center
- Real Estate
- Teacher Education

Personal Development
- Creative Arts Center
- Fitness, Recreation, Watersports
- Kids and Teens

Test Preparation and Skills Refresher Course
PERT Skills Preparation: EDH 0554 students who need to refresh their skills in algebra, geometry, grammar and spelling before they take the PERT assessment or need to refresh their skills to retake the PERT later, this course will provide you with content information and review of the skills you need to demonstrate on the P.E.R.T test. It is not only informative it is fun. You will be able to review reading, writing and arithmetic, using YouTube, posters, one-on-one coaching, audio CDs and DVDs. No more boring classes. Our goal is to help you do better on the PERT.

Smart Start Workshops
MOOC Test Preparation
Online courses

Insurance Program: provides courses for people interested in sitting for General Insurance Agents, Adjustors, and Life, Health and Annuity State Licensing Examinations. Continuing education courses for licensed insurance agents and National Professional Insurance Courses are also offered.

Real Estate Program: providing continuing education credits for real estate salespersons, brokers, and community association managers to enable them to maintain their active license status.

Kids and Teens Summer College: Children eight to fifteen years of age are introduced to Broward College’s innovative and enriching programs.

KIDS and TEENS Summer College:
- • Creative Arts Center
- • Personal Development
- • Professional Development
- • Test Preparation and Skills Refresher Course
- • Kids and Teens

www.broward.edu/business, (954) 201-7850.

CBI’s programs are offered at all campuses and centers. Options include:

- Customized training at business and industry sites
- "Work Keys" Skills Assessment
- Adventure Training Teambuilding

Customized on-site training means an end to generic, expensive and time-consuming seminars and extensive travel. Customized programs are designed to meet specific needs of a company without requiring travel from the comfort and convenience of the firm’s location. Practitioners and consultants with successful business and industry backgrounds help define training needs. Technical skills, management skills and team-building programs are tailored to the culture of the business and the learning styles of employees. Customized training offers a choice.
of formats best suited to employers and employees. Short or long-term programming, lasting from a few hours to several months, is available.

The Health Science Continuing Education/Workforce Development program provides educational opportunities for health professionals who desire to increase their knowledge and skills based on a continuum. The program supports and assists in implementing the mission of the College through continuing education offerings for health care providers. Target groups include medical assistants, dental assistants and hygienists, dietitians, registered and licensed practical nurses, certified nursing assistants, clinical laboratory personnel, nursing home administrators, radiographers, physical therapists and assistants, respiratory therapists, and psychological services and psychological services therapists.

Health Science Continuing Education is an approved provider by the CE Broker (50-266), a Division of Information Systems of Florida. Florida Department of Health Rule 64B-5.003, F.A.C. DH-NQA-CEB-8, May 2006; (Florida Board of Clinical Laboratory Personnel – recognized Broker (50-266), a Division of Information Systems of Florida, Florida Health Science Continuing Education is an approved provider by the CE and psychological services licensees and massage therapists.

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BACHELOR OF APPLIED SCIENCE PROGRAMS

The Bachelor of Applied Science (BAS) is designed as a learner-centered degree program that provides specific program learning outcomes. Students, who successfully complete the Supervision and Management degree program, will gain technical hands-on skills through case studies and a capstone project, which will include analysis and problem solving through simulations and similar activities. This program will focus on current and emerging issues in business and management, such as financial markets, international trade, human resources, and will focus on developing comprehensive solutions to real-world problems associated with current management and organizational leadership challenges. Students will acquire knowledge related to the major concepts, principles, and techniques associated with leading cultural diversity in the global marketplace. General program outcomes for the BAS degree programs are comprised of specific learning objectives embedded into each of the courses.

Supervision and Management - Program Code T100
Technology Management - Program Code T200
Information Technology - Program Code T300

Financial Aid
Students may be eligible for financial aid at the junior level when the following occurs:
1. earned associate degree;
2. earned 60 credits toward a Bachelor degree program of study; and
3. enrolled in upper division coursework applicable to their Bachelor degree program of study.

Graduation Requirements
The Bachelor of Applied Science degree will be awarded to students who meet the following requirements:

• A minimum of 120 semester credit hours in the prescribed coursework is required for the Bachelor of Applied Science degree. Coursework is comprised of both lower division (AS, AAS, AA) and upper division (BAS) as specified by the program sheet.
• Successful completion of the Capstone Project.
• Students must maintain an overall GPA of 2.0 to meet their graduation requirements.
• Complete eight credits in one foreign language or American Sign Language students who have completed two years of high school foreign language in one language are considered to have met the requirement. Students who have earned an Associate in Arts degree from a Florida Community College or State University System (SUS) institution before the Fall term of 1989, or who have maintained continuous enrollment in a Florida community college or SUS institution before the Fall term, 1989, are exempt from the requirement.
• Be recommended for graduation by the faculty of the student’s major field department.
**BACHELOR OF APPLIED SCIENCE PROGRAMS**
Supervision and Management – Program Code T100

Program Description:
The Bachelor of Applied Science Degree in Supervision and Management is designed to provide individuals who hold an Associate in Science (AS) or Associate in Applied Science (AAS) degree the opportunity to further their education. Students completing this program will have the skills and knowledge required to become successful managers and leaders within public, private, and non-profit organizations. The curriculum offers a learner-centered practical approach to understanding supervision and management.

### BAS SUPERVISION AND MANAGEMENT DEGREE COMPONENTS

<table>
<thead>
<tr>
<th>Earned Associate in Science or Associate in Applied Science Degree</th>
<th>56</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Core Requirements Credits: AS or AAS degree holders will have completed a minimum of 15 of the 36 required general education hours as a part of their AS or A.A.S. degree.</td>
<td></td>
</tr>
</tbody>
</table>

### LOWER DIVISION COURSEWORK FROM AS or AAS in semester credit hours

Note: Foreign language competency: Complete two years of the same foreign language in high school or complete requirement prior to graduation at the postsecondary (college) level.

### UPPER LEVEL PROFESSIONAL COURSEWORK in semester credit hours

Note: Students with an Associate in Arts degree (AA) or 60 credit hours without a degree may be admitted to the program upon recommendation of the Dean for Business, Technology and Management and the Dean for Student Affairs.

### UPPER DIVISION PROFESSIONAL COURSEWORK

**(Sample Course Sequence)**

<table>
<thead>
<tr>
<th>First Semester Senior - Term I</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN3240 Applied Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>GEB3213 Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAN3305 Management and Leadership</td>
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</tr>
<tr>
<td>MAC1186 College Algebra</td>
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<tr>
<td>Total term credit hours</td>
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</tr>
<tr>
<td>GE Course General Education Science</td>
<td>3</td>
</tr>
<tr>
<td>BUL3130 Business Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>MAN3310 Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MAC1186 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>STA 2023 Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1608 Introduction to Public Speaking</td>
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<td>Total term credit hours</td>
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<table>
<thead>
<tr>
<th>Second Semester Senior - Term II</th>
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</thead>
<tbody>
<tr>
<td>MAN4102 Managing Cultural Diversity</td>
<td>3</td>
</tr>
<tr>
<td>MAN4204 Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN4270 Strategic Management and Policy**</td>
<td>3</td>
</tr>
<tr>
<td>GE Course General Education Science *</td>
<td>1</td>
</tr>
<tr>
<td>GE Course General Education Science Lab *</td>
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<tr>
<td>Total term credit hours</td>
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<table>
<thead>
<tr>
<th>Third Semester Senior - Term III</th>
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<tr>
<td>MAN4900 Capstone Project**</td>
<td>3</td>
</tr>
<tr>
<td>GE Course General Education *</td>
<td>3</td>
</tr>
<tr>
<td>GE Course General Education Wellness *</td>
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<tr>
<td>Total term credit hours</td>
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</tr>
</tbody>
</table>

Notes:
* MAN 3930: Two semester credits required
** MAN 4720 and MAN 4900: Must be taken in the final semester

The Bachelor of Applied Science Degree in Technology Management provides individuals who hold an Associate in Science (AS) or Associate in Applied Science (AAS) degree the opportunity to further their education. Students completing this program will have the skills and knowledge required to become successful Technology Managers and leaders within public, private, and non-profit organizations. The curriculum offers a learner-centered and practical approach to understanding Technology Management.

### BAS TECHNOLOGY MANAGEMENT DEGREE COMPONENTS

<table>
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<tr>
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<td></td>
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### LOWER DIVISION COURSEWORK FROM AS or AAS in semester credit hours

Note: Foreign language competency: Complete two years of the same foreign language in high school or complete requirement prior to graduation at the postsecondary (college) level.

### UPPER LEVEL PROFESSIONAL COURSEWORK in semester credit hours

Note: Students with an Associate in Arts degree (AA) or 60 credit hours without a degree may be admitted to the program upon recommendation of the Dean for Business, Technology and Management and the Dean for Student Affairs.

### UPPER DIVISION PROFESSIONAL COURSEWORK

**(Sample Course Sequence)**

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<thead>
<tr>
<th>First Semester Junior - Term I</th>
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<tbody>
<tr>
<td>MAN3240 Applied Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MAN4120 Leadership Challenges and Supervision</td>
<td>3</td>
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<tr>
<td>MAN4204 Operations Management</td>
<td>3</td>
</tr>
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<td>MAN4270 Strategic Management and Policy**</td>
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<tr>
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<table>
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<th>Third Semester Junior - Term III</th>
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<tr>
<td>GE Course General Education *</td>
<td>3</td>
</tr>
<tr>
<td>GE Course General Education Wellness *</td>
<td>2</td>
</tr>
<tr>
<td>Total term credit hours</td>
<td>8</td>
</tr>
</tbody>
</table>

Notes:
* Prerequisite and/or co-requisite required: see course description
** MAN 4900 must be taken in final semester

The Bachelor of Applied Science Degree in Technology Management provides individuals who hold an Associate in Science (AS) or Associate in Applied Science (AAS) degree the opportunity to further their education. Students completing this program will have the skills and knowledge required to become successful Technology Managers and leaders within public, private, and non-profit organizations. The curriculum offers a learner-centered and practical approach to understanding Technology Management.

### UPPER DIVISION PROFESSIONAL COURSEWORK

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</tr>
<tr>
<td>GE Course General Education Science *</td>
<td>1</td>
</tr>
<tr>
<td>GE Course General Education Science Lab *</td>
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<tr>
<td>Total term credit hours</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester Senior - Term III</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GE Course General Education *</td>
<td>3</td>
</tr>
<tr>
<td>GE Course General Education Wellness *</td>
<td>2</td>
</tr>
<tr>
<td>Total term credit hours</td>
<td>8</td>
</tr>
</tbody>
</table>

Notes:
* Prerequisite and/or co-requisite required: see course description
** MAN 4900 must be taken in final semester

It is strongly recommended that students take CIS 1513C before ISM 4314.

** General Education requirements will vary based on individual student’s transcripts.

Students interested in this program must see an academic advisor to determine course sequence.
Program Description
The Bachelor of Applied Science Degree in Information Technology provides individuals who hold an Associate in Science (AS) or Associate in Applied Science (AAS) degree the opportunity to further their education. Students completing this program will have the skills and knowledge required to become successful Information Technologists and leaders in areas such as database administration, network systems administration, computer software engineering, etc. within public, private, and non-profit organizations. The curriculum offers a learner-centered and practical approach to understanding and applying Information Technology.

BACHELOR OF APPLIED SCIENCE PROGRAMS
Information Technology Program Code T 300

BAS INFORMATION TECHNOLOGY DEGREE COMPONENTS

Earned Associate in Science or Associate in Applied Science Degree

General Education Core Requirements Credits: AS or AAS degree holders will have completed a minimum of 15 of the 56 required general education hours as a part of their AS or A.A. S. degree. 56

LOWER DIVISION COURSEWORK FROM AS or AAS in semester credit hours 48

Note: Foreign language competency: Complete two years of the same foreign language in high school or complete requirement prior to graduation at the postsecondary (college) level.

UPPER LEVEL PROFESSIONAL COURSEWORK in semester credit hours 39

TOTAL 120

Note: Students with an Associate in Arts degree (AA) or 60 credit hours without a degree may be admitted to the program upon recommendation of the Dean for Business, Technology and Management and the Dean for Student Affairs.

UPPER DIVISION PROFESSIONAL COURSEWORK
(Sample Course Sequence)

First Semester Junior - Term I

CIS 3702 Infrastructure and Facilities Planning 3
CIS 3707 Human Computer Interaction 3
CIS 3741 Platform Technologies 3
CIS 4503 IT Capstone Project 3

Second Semester Junior - Term II

CIS 4414 Systems Integration and Architecture 3
CIS 4914 IT Capstone Project 3

First Semester Senior - Term I

CIS 4220 Technical Writing 3
HLP 1081 Wellness 3

Second Semester Senior - Term II

ENC 4210 Technical Writing 3
HLP 2472 Global Operations Management 3

Upper Level Professional Coursework in semester credit hours 39

TOTAL 120

BACHELOR OF APPLIED SCIENCE PROGRAMS
Supply Chain Management – Program Code T 400

Program Description:
The Bachelor of Applied Science Degree in Supply Chain Management uses a 2+2 model designed to provide individuals who have obtained an Associate of Science (AS) or Associate of Arts (AA) degree from a regionally accredited college or university the opportunity to further their education. The curriculum offers a learner-centered practical approach to understanding global logistics and supply chain management.

BAS SUPPLY CHAIN MANAGEMENT DEGREE COMPONENTS
Earned Associate of Science (AS) Degree

General Education Core Requirements Credits: AS degree holders should have completed a minimum of 15 of the 56 required general education hours as a part of their AS or degree. All students are required to complete a 56-hour General Education block in the BAS program. Students must see the enrollment coordinator for the BAS Program to determine course sequence and remaining General Education requirements. 56

LOWER DIVISION COURSEWORK FROM AS in credit hours 43

Note: Foreign language competency: Complete two years of the same foreign language in high school or complete requirement prior to graduation at the postsecondary (college) level.

UPPER DIVISION PROFESSIONAL COURSEWORK in credit hours 41

TOTAL 120

Earned Associate of Arts (AA) Degree

Lower Division coursework from AA in credit hours 24

Note: Foreign language competency: Complete two years of the same foreign language in high school or complete requirement prior to graduation at the postsecondary (college) level.

LOWER DIVISION COURSEWORK ELECTIVES (will be taken in UPPER DIVISION) in semester credit hours. Any course with prefix ACG, BUL, ECO, FIN, GER, MAN, MAR, MKA, MNA, TRA

TOTAL 120

All students interested in applying for the Bachelor of Applied Science in Supply Chain Management program that do not have the Associate of Science degree in Global Trade and Logistics must meet the following prerequisite courses: ACG 2001, ACG 2011, ECO 2013, ECO 2023, TRA 1010, TRA 1154
**BACHELOR OF SCIENCE IN EDUCATION DEGREE PROGRAM**

**Exceptional Student Education Program – Program Code S100**

**Program Description**

The Bachelor of Science in Education for Exceptional Student Education is designed to qualify its graduates to teach ESE placements in grades K-12. Admission to Broward College does not constitute admission to the Teacher Education program; a supplemental application is also required. Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the required coursework, students must pass the Florida Teacher Certification Exams.

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements. (See below).

---

<table>
<thead>
<tr>
<th>LOWER DIVISION COURSEWORK in semester credit hours</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Degree Program of Study Program Electives (to include EDF1005, EDF2085, EME2040)</td>
<td>24</td>
</tr>
<tr>
<td>General Education Core Requirements: Credits: Communication (9), Math (6) Humanities (6) Social Behavioral Science (6) Biological Science (5) Physical Science (3) Lab (1), Wellness (2)</td>
<td>56</td>
</tr>
<tr>
<td>Foreign Language Requirement: Students are required to have 2-years of sequential foreign language studies from high school or 8 semester credit hours from college prior to graduation of Bachelor of Science degree.</td>
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**UPPER DIVISION COURSEWORK in semester credit hours**

<table>
<thead>
<tr>
<th>80</th>
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<tbody>
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<table>
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<tr>
<th>B.S. EXCEPTIONAL STUDENT EDUCATION COMPONENTS</th>
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<tbody>
<tr>
<td>First Semester Junior - Term I</td>
<td></td>
</tr>
<tr>
<td>EDF 4004 Principles of Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4094 Nature and Needs of Autism*</td>
<td>3</td>
</tr>
<tr>
<td>Second Semester Junior - Term II</td>
<td></td>
</tr>
<tr>
<td>EEX 3011 Introduction to ESE†</td>
<td>3</td>
</tr>
<tr>
<td>EEX 1011 Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>Third Semester Junior - Term III</td>
<td></td>
</tr>
<tr>
<td>RED 4519 Literacy Assessment and Differentiated Instruction in Reading Education*</td>
<td>3</td>
</tr>
<tr>
<td>MAE 4310 Methods of Teaching Exceptional Learners Practicum*</td>
<td>3</td>
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</tbody>
</table>

---

It is strongly recommended that students see an advisor every term.

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**BACHELOR OF SCIENCE IN EDUCATION DEGREE PROGRAM**

**Middle Grades General Science – Program Code S200**

**Program Description**

The Bachelor of Science in Education for Middle Grades Science Education is designed to qualify its graduates to teach general science in grades 5-9. Admission to Broward College does not constitute admission to the Teacher Education program; a supplemental application is also required. Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the required coursework, students must pass the Florida Teacher Certification Exams.

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements. (See below).

---

<table>
<thead>
<tr>
<th>LOWER DIVISION COURSEWORK in semester credit hours</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Degree Program of Study Program Electives (to include EDF1005, EDF2085, EME2040)</td>
<td>24</td>
</tr>
<tr>
<td>General Education Core Requirements: Credits: Communication (9), Math (6) Humanities (6) Social Behavioral Science (6) Biological Science (5) Physical Science (3) Lab (1), Wellness (2)</td>
<td>56</td>
</tr>
<tr>
<td>Note: Students in the Middle Grades Science Program must include the following science courses within their lower division educational plan: CEC 1001, CEC 1001L, CHM 1045, CHM 1045L, BSC 1010, BSC 1010L, BSC 1011, BSC 1011L, GLY 1010, GLY 1010L, and AST 1005.</td>
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**UPPER DIVISION COURSEWORK in semester credit hours**

<table>
<thead>
<tr>
<th>60</th>
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<tbody>
<tr>
<td>TOTAL</td>
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<table>
<thead>
<tr>
<th>B.S. ED MIDDLE GRADES SCIENCE EDUCATION COMPONENTS</th>
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</thead>
<tbody>
<tr>
<td>First Semester Junior - Term I</td>
<td></td>
</tr>
<tr>
<td>PCB 4843 Ecology</td>
<td>3</td>
</tr>
<tr>
<td>EEX 3001 Introduction to ESE*</td>
<td>3</td>
</tr>
<tr>
<td>EEX 1011 Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>Second Semester Junior - Term II</td>
<td></td>
</tr>
<tr>
<td>EEX 4094 Nature and Needs of Autism*</td>
<td>3</td>
</tr>
<tr>
<td>Second Semester Senior - Term II</td>
<td></td>
</tr>
<tr>
<td>EEX 1011 Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>Third Semester Junior - Term III</td>
<td></td>
</tr>
<tr>
<td>EEX 1011 Language and Communication Disorders*</td>
<td>3</td>
</tr>
<tr>
<td>Fourth Semester Senior - Term I</td>
<td></td>
</tr>
<tr>
<td>EDF 4430 Educational Tests and Measurements*</td>
<td>3</td>
</tr>
<tr>
<td>EEX 1011 Science Practicum*</td>
<td>3</td>
</tr>
<tr>
<td>Fourth Semester Junior - Term II</td>
<td></td>
</tr>
<tr>
<td>EDF 4430 Educational Tests and Measurements*</td>
<td>3</td>
</tr>
<tr>
<td>EEX 1011 Science Practicum*</td>
<td>3</td>
</tr>
</tbody>
</table>

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* Field Experience required; see course description.

† Prerequisite and/or co-requisites required; see course description.

It is strongly recommended that students see an advisor every term.
BACHELOR OF SCIENCE IN EDUCATION DEGREE PROGRAM  
Secondary Education – Program Code S300

Program Description
The Bachelor of Science in Education for Secondary Biology Education is designed to qualify its graduates to teach biology in grades 6-12. Admission to Broward College does not constitute admission to the Teacher Education programs; a supplemental application is also required. Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the required coursework, students must pass the Florida Teacher Certification Exams.

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements. (See below).

---

### B.S. ED SECONDARY BIOLOGY EDUCATION DEGREE COMPONENTS

<table>
<thead>
<tr>
<th>LOWER DIVISION COURSEWORK in semester credit hours</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Core Requirements Credits:</td>
<td></td>
</tr>
<tr>
<td>Communication (9), Math (6) Humanities (6) Social</td>
<td></td>
</tr>
<tr>
<td>Behavioral Science (6) Biological Science (3)</td>
<td></td>
</tr>
<tr>
<td>Physical Science (3) Lab (1), Wellness (2).</td>
<td>36</td>
</tr>
</tbody>
</table>

Note: Students in the Secondary Biology Program must include the following science courses within their lower division educational plan: OCE 1001, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, BSC 1010, BSC 1010L, BSC 1011, and BSC 1011L.

Foreign Language Requirement: Students are required to have 2-years of sequential foreign language studies from high school or 8 semester credit hours from college prior to graduation of Bachelor of Science degree.

<table>
<thead>
<tr>
<th>UPPER DIVISION COURSEWORK in semester credit hours</th>
<th>60</th>
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</thead>
<tbody>
<tr>
<td>TOTAL</td>
<td>120</td>
</tr>
</tbody>
</table>

---

### UPPER DIVISION COURSEWORK

First Semester Junior - Term I
EEX3011 Introduction to ESE* 3
RED1342 Foundations of Reading* 3
TSL3880 ESL Issues & Strategies 1* 3
PCB4043 Ecology 3
EDP13280 Instructional Strategies* 3
Total term credit hours 15

Fourth Semester Senior - Term I
RED3552 Reading in the Content Area °‡ 3
EDG4410 Classroom Management °‡ 3
EDF4350 Educational Tests and Measurements° 3
Total term credit hours 12

Fifth Semester Senior - Term II
ZOO4675 Comparative Vertebrate Morphology & Physiology 3
ZOO4675L Comparative Vertebrate Morphology & Physiology Lab 1
CHM2205 Organic & Bio-Chemistry 3
CHM2205L Organic & Bio-Chemistry Lab 1
SCE1030 Methods and Strategies of Teaching Biological Science 3
Total term credit hours 11

Third Semester Junior - Term III
MICB5029 General Microbiology 3
MICB5029L General Microbiology Lab 1
EDP4004 Educational Psychology 3
Total term credit hours 7

SED105 Special Topics, a one credit course, is a recommended elective.
* Field Experience required: see course description.
1 Prerequisite and/or co-requisites required: see course description.

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BACHELOR OF SCIENCE IN EDUCATION DEGREE PROGRAM  
Middle Grades Mathematics – Program Code S400

Program Description
The Bachelor of Science in Education for Middle Grades Mathematics Education is designed to qualify its graduates to teach math in grades 5-9. Admission to Broward College does not constitute admission to the Teacher Education programs; a supplemental application is also required. Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the required coursework, students must pass the Florida Teacher Certification Exams.

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements. (See below).

---

### B.S. ED MIDDLE GRADES MATHEMATICS EDUCATION DEGREE COMPONENTS

<table>
<thead>
<tr>
<th>LOWER DIVISION COURSEWORK in semester credit hours</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Degree Program of Study Program Electives (to include EDF1005, EDF2085, EME2040)</td>
<td>24</td>
</tr>
<tr>
<td>General Education Core Requirements Credits:</td>
<td></td>
</tr>
<tr>
<td>Communication (9), Math (6) Humanities (6) Social</td>
<td></td>
</tr>
<tr>
<td>Behavioral Science (6) Biological Science (3)</td>
<td></td>
</tr>
<tr>
<td>Physical Science (3) Lab (1), Wellness (2).</td>
<td>36</td>
</tr>
</tbody>
</table>

Note: Students in the Secondary Math Program must include the following Math courses within their lower division educational plan: MAC 1105, MAC 1140, MAC 1141, STA 2023, and MAC 2511.

Foreign Language Requirement: Students are required to have 2-years of sequential foreign language studies from high school or 8 semester credit hours from college prior to graduation of Bachelor of Science degree.

<table>
<thead>
<tr>
<th>UPPER DIVISION COURSEWORK in semester credit hours</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL</td>
<td>120</td>
</tr>
</tbody>
</table>

---

### UPPER DIVISION COURSEWORK

First Semester Junior - Term I
EEX3011 Introduction to ESE* 3
RED1342 Foundations of Reading* 3
TSL3880 ESL Issues & Strategies 1* 3
PCB4043 Ecology 3
EDP13280 Instructional Strategies* 3
Total term credit hours 15

Fourth Semester Senior - Term I
EDF4430 Educational Tests and Measurements° 3
MAS4300 Abstract Algebra with Introductory Number Theory 3
MAD2104 Discrete Mathematics° 3
EDG4410 Classroom Management °‡ 3
EDG4410 Classroom Management ° 3
RED3342 Foundations of Reading * 3
Total term credit hours 16

Fifth Semester Senior - Term II
EDPF4004 Educational Psychology 3
MAS2103 Linear Algebra 3
MAE3520 Methods of Teaching Math in the Middle School ° 3
EDG4410 Classroom Management °‡ 3
RED3552 Reading in the Content Area °‡ 3
Total term credit hours 11

Third Semester Junior - Term III
MHF4404 History of Mathematics° 3
MTG2121 Geometry° 3
Total term credit hours 6

* Field Experience required: see course description.
1 Prerequisite and/or co-requisites required: see course description.

It is strongly recommended that students see an advisor every term.
BACHELOR OF SCIENCE IN EDUCATION DEGREE PROGRAM
Secondary Mathematics – Program Code N500

Program Description
The Bachelor of Science in Education for Secondary Mathematics Education is designed to qualify its graduates to teach math in grades 6-12. Admission to Broward College does not constitute admission to the Teacher Education programs; a supplemental application is also required. Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the required coursework, students must pass the Florida Teacher Certification Exams.

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements. (See below).

<table>
<thead>
<tr>
<th>LOWER DIVISION COURSEWORK in semester credit hours</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Degree Program of Study Program Electives (to include EDF1005, EDF2085, EME2040 )</td>
<td>24</td>
</tr>
<tr>
<td>General Education Core Requirements Credits: Communication (9), Math (6) Humanities (6) Social Behavioral Science (6) Biological Science (3) Physical Science (3) Lab (1), Wellness (2)</td>
<td>36</td>
</tr>
</tbody>
</table>

Note: Students in the Secondary Math Program must include the following Math courses within their lower division educational plan: MAC 1105, MAC 1140, MAC 1114, STA 2023, MAC 2311 and MAC 2312.

Foreign Language Requirement: Students are required to have 2-years of sequential foreign language studies from high school or 8 semester credit hours from college prior to graduation of Bachelor of Science degree.

<table>
<thead>
<tr>
<th>UPPER DIVISION COURSEWORK in semester credit hours</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL</td>
<td>120</td>
</tr>
</tbody>
</table>

B.S. ED SECONDARY MATHEMATICS EDUCATION COMPONENTS

First Semester Junior - Term I
ERIX2011 Introduction to ASE* 3
MAD2104 Discrete Mathematics‡ 3
REIX4291 Foundations of Reading * 3
TSL3890 ISOL Issues & Strategies I * 3
EDF2890 Instructional Strategies§ 3
EDF3950 Special Topics 1
Total term credit hours 16

Fourth Semester Senior - Term I
EDF4430 Educational Tests and Measurements‡ 3
MAS4300 Abstract Algebra with Introductory 3
MAE3143 Interactive Middle School and Secondary School Projects *‡ 3
MAE3941 Teaching Middle School and Secondary School Practicum *‡ 3
Total term credit hours 12

Second Semester Junior - Term II
EDF4804 Educational Psychology 3
MAE2103 Linear Algebra‡ 3
MAE4330 Methods of Teaching Math in the Secondary School*‡ 3
EDG4410 Classroom Management * 3
REIX3511 Reading in the Content Area *‡ 3
Total term credit hours 15

Fifth Semester Senior - Term II
ERIX2011 Introduction to ASE* 3
MAD2104 Discrete Mathematics‡ 3
MAE4945 Student Teaching 11
Total term credit hours 12

Third Semester Junior - Term III
MHF4404 History of Mathematics‡ 3
MTG2212 Geometry‡ 3
Total term credit hours 6

* Field Experience required: see course description.
‡ Prerequisite and/or co-requisites required: see course description.

It is strongly recommended that students see an advisor every term.

BACHELOR OF SCIENCE IN EDUCATION DEGREE PROGRAM
Nursing – Program Code N100

Mission Statement
Consistent with the mission of the College and building on the mission of the Associate Degree nursing program, the faculty of Broward College’s RN-BSN Nursing program is committed to achieving student success by preparing baccalaureate nurse generalists for the role of provider of direct and indirect care, designer, manager and coordinator of that care, and a member of the nursing profession (CCNE, 2008).

The mission of the RN-BSN Program is to prepare a professional and competent nurse who practices in a dynamic health care environment across communities, populations, and life-spans, providing leadership to promote and improve global health; is committed to the advancement of nursing knowledge and practice, celebrates diversity, and aspires to lifelong learning and achievement.

Program Philosophy
The faculty believes that nursing is a discipline in which the holistic needs of the person are met in a variety of settings. The body of knowledge that serves as the rationale for nursing practice and is held to be of most value in the discipline of nursing includes: (1) empirics, the science of nursing; (2) esthetics, the art of nursing; (3) knowing, the component of personal knowledge in nursing; and (4) ethics, the component of moral knowledge in nursing. (Carper, 1978). The essence of nursing is situated in practice-oriented, person-centered care, guided by ethical decision-making and shaped by internal and external environments, diverse family and community structures, and engagement with the larger community, both locally and globally, increasing global interdependence, and social, political, professional, and economic systems.

Related Programs
LPN-RN Transition Major Code 2127
Nursing (RN) Associate in Science Degree Major Code 2127

Graduation Requirements for RN-BSN Baccalaureate Degree
- The Bachelor of Science in Nursing will be awarded to students who meet the following requirements:
  - A minimum of 120 semester credit hours in the prescribed coursework required for the Bachelor’s degree
  - 36 general education credits
  - 18 Florida State common and RN-BSN pre-requisites (course work from Associate’s Degree may count towards this requirement)
  - Two years of the same foreign language in high school or complete requirement prior to graduation at the postsecondary level
  - Validated Nursing Courses from Lower Division Nursing or equivalent courses
  - Completion of a professional portfolio in NUR 4945
  - 36 credit hours of Upper Division Nursing Courses

- completion of all program requirements
The Registered Nurse to Bachelor of Science in Nursing (RN-BSN Program) is offered as a face-to-face or online post-licensure program intended to provide an increased educational opportunity for unrestricted and unencumbered licensed Florida Registered Nurses (RNs). RNs applying to the program must have earned an Associate of Science (AS) Degree in nursing to matriculate into a baccalaureate degree program. This one hundred twenty (120) credit hour program incorporates the Associate of Arts (AA) and the AS lower division coursework as the foundation of the baccalaureate program.

**BACHELOR OF SCIENCE IN NURSING DEGREE COMPONENTS**

<table>
<thead>
<tr>
<th>Earned Associate in Science or Associate in Applied Science Degree</th>
<th>36</th>
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</thead>
<tbody>
<tr>
<td>General Education Core Requirements (9), Social Behavioral Science (3), Historical (3), Humanities (6), Natural Sciences (6), Lab (1), Math (6), Health &amp; Wellness (2)</td>
<td>14</td>
</tr>
<tr>
<td>State of Florida Common Pre-Requisites CHM1032L, CHM1032, DEP2004, MCB2010, MCB2010L, HUN1202.</td>
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</tr>
<tr>
<td>Required RN-BSN Nursing Pre-Requisite Courses CHM1022L, SYG2000.</td>
<td>4</td>
</tr>
<tr>
<td>Foreign Language Requirement: Students are required to have 2 years of sequential foreign language studies from high school or 8 semester credit hours from college prior to graduation.</td>
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</tr>
<tr>
<td>Lower level validated nursing coursework in semester credit hours</td>
<td>35</td>
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<tr>
<td>Upper level required nursing coursework in semester credit hours</td>
<td>38</td>
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<tr>
<td>TOTAL</td>
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**Upper Level Professional Courses (56 Hours)**

(Fall and Winter Admission Terms Only)

**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>NUR1860</td>
<td>Nursing Roles, Dimensions, &amp; Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>NUR3062</td>
<td>Advanced Health Assessment*</td>
<td>3</td>
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<tr>
<td>NUR3062L</td>
<td>Advanced Health Assessment Lab*</td>
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<tr>
<td>Elective</td>
<td>Nursing Elective**</td>
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**Second Semester**

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<tr>
<td>Elective</td>
<td>Nursing Elective**</td>
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<tr>
<td>NUR4827</td>
<td>Principles in Nursing Leadership &amp; Management</td>
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**Third Semester (First 6-weeks)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>NUR4465</td>
<td>Nursing Capstone***</td>
<td>2</td>
</tr>
<tr>
<td>NUR4945L</td>
<td>Nursing Capstone Practicum***</td>
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**Second Semester**

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>NUR4667</td>
<td>Nursing Perspectives &amp; Global Trends</td>
<td>3</td>
</tr>
<tr>
<td>NUR4636</td>
<td>Community Health Nursing</td>
<td>3</td>
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<tr>
<td>NUR4636L</td>
<td>Community Health Nursing Practicum</td>
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**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>NUR3119</td>
<td>Nursing Concepts &amp; Theories</td>
<td>3</td>
</tr>
<tr>
<td>NUR3167</td>
<td>Nurse as Scholar</td>
<td>3</td>
</tr>
<tr>
<td>NUR4165</td>
<td>Nursing Research</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
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</tr>
</tbody>
</table>

*May be taken independently, no pre or co-requisites required. Must be Licensed Registered Nurse.

**Nursing Electives**

Student may select two of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR3678</td>
<td>Nursing Care of Vulnerable Populations</td>
<td>3</td>
</tr>
<tr>
<td>NUR4284</td>
<td>Dynamic &amp; Contemporary Issues in Aging</td>
<td>3</td>
</tr>
<tr>
<td>NUR4826</td>
<td>Legal and Ethical Aspects of Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NUR4870</td>
<td>Nursing Informatics</td>
<td>3</td>
</tr>
<tr>
<td>NUR4195</td>
<td>Nursing Situation in End-of-Life Care</td>
<td>3</td>
</tr>
</tbody>
</table>

**Students must complete all required RN-BSN, general education, State of Florida and program pre-requisite course requirements prior to registering for Nursing Capstone.**

**EDUCATOR PREPARATION INSTITUTE (EPI)**

The EPI is an accelerated alternative certification program that targets individuals who currently hold at least a bachelors degree in an area of study other than education. The EPI provides the knowledge and tools needed to obtain a Florida Professional Teaching Certificate.

**Admission Requirements:**

Individuals are required to:

- hold at least a baccalaureate degree from a regionally accredited college/university
- have an undergraduate GPA of 2.5 or higher
- have or be in the process of obtaining a Statement of Eligibility from the Florida Department of Education
- complete a BC credit application as well as the supplemental EPI application.
- request all official (sealed) transcripts to be sent to BC

The final phase of the admissions process is a face-to-face interview. All applicants must be interviewed before they can be accepted into the program. The interview provides the EPI staff the opportunity to evaluate the applicant’s disposition, motivation and educational goals.

**Curriculum:**

The EPI program is 21 credits consisting of 7 courses and 2 field experiences. The EPI is a “packaged” program and therefore all students are required to complete the full 21 credits. Students are also required to maintain a 2.5 GPA throughout the program.

BC’s EPI program is a fully online program. Many faculty members choose to have optional face-to-face meetings throughout the semester to support and enhance the student’s learning experience. The EPI courses are:

- Classroom Management
- Instructional Strategies
- Technology
- The Teaching and Learning Process
- Foundations of Research Based Practices in Reading
- The Teaching Profession with Field Experience
- Diversity with Field Experience

**Additional Completion Requirements:**

In addition to the 21 credits, students are required to create an electronic portfolio to document their competency of the Florida Educator Accomplished Practices. Students are also required to take and pass all sections of the Florida Teacher Certification Examinations (the General Knowledge, the Subject Area, and the Profession Education Exams).

**Contact Information:**

Contact the EPI office for more information at www.broward.edu or 954 201 4538
Program Description

The Associate in Science degree in Accounting Technology is designed for students who intend to seek employment in the accounting field and for those who are presently employed in accounting and desire advancement. Some of the careers, to which this sequence may lead, are accounting, banking, real estate, and general management. All courses are available on-line. For more information call 954-201-6889.

Related Programs

- Accounting Technology Management Technical Certificate Major Code 62140 (6214E)
- Accounting Technology Operations Technical Certificate Major Code 6323
- Accounting Technology Specialist Technical Certificate Major Code 6324

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th>First Year Term II</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG20001 Principles of Accounting I</td>
<td>ACG2100 Intermediate Accounting I*</td>
</tr>
<tr>
<td>CGS1060C Computer and Internet Literacy***</td>
<td>TAX2010 Income Tax II*</td>
</tr>
<tr>
<td>GEB1011 Introduction to Business</td>
<td>ENC1101 Composition I*</td>
</tr>
<tr>
<td>GE Course General Education Mathematics</td>
<td>ECO2013 Principles of Economics I</td>
</tr>
<tr>
<td>Elective Business Elective**</td>
<td>BUL2242 Business Law II</td>
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<table>
<thead>
<tr>
<th>Second Year Term I</th>
<th>Second Year Term II</th>
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</thead>
<tbody>
<tr>
<td>ACG2101 Intermediate Accounting II*</td>
<td>ACG2110 Intermediate Accounting II*</td>
</tr>
<tr>
<td>TAX2000 Income Tax I</td>
<td>ACG2110 Income Tax I</td>
</tr>
<tr>
<td>BUL2241 Business Law I</td>
<td>ACG2450C Computerized Accounting Applications***</td>
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<tr>
<td>OST2535 Communications in the Workforce</td>
<td>SPC1024 Introduction to Speech Communication</td>
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<tr>
<td>Total Term Hours</td>
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<tr>
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<table>
<thead>
<tr>
<th>First Year Term III</th>
<th>First Year Term III</th>
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</thead>
<tbody>
<tr>
<td>ACG2071 Managerial Accounting*</td>
<td>ACG2071 Managerial Accounting*</td>
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<td>Elective Business Elective**</td>
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<td>Total Term Semester Hours</td>
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<table>
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<tr>
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<th>Total Program semester Hours</th>
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</thead>
<tbody>
<tr>
<td>ACG2110 Intermediate Accounting II*</td>
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<tr>
<td>SPC1608C Computerized Accounting Applications*</td>
<td>SPC1024 Introduction to Speech Communication</td>
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<td>Total Term Semester Hours</td>
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</tr>
<tr>
<td>15</td>
<td>16</td>
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</table>

* General Education courses must be selected from the list of AS Degree courses found in the College Catalog/posted on-line at www.broward.edu/studentresources/advising/Pages/gened.aspx

* Requires a pre-requisite or proper score on placement test. See course description online at www.broward.edu/next/text/CourseDescDepartmentList.jsp.

** Business Electives are satisfied by taking any two of the following courses: ECO2023, FIN1100, GEB2112, MAN2021, MAN2604, MAR1011, MNA1161, REE1140.

*** CGS1060C must be completed within the first 15 hours of Broward College coursework.

Note: The Major Code 2100E is for students who take this program on-line.

It is strongly recommended that students see an advisor every term.
ACCOUNTING TECHNOLOGY PROGRAMS

Accounting Technology Management Technical Certificate Major Code 62140 (6214E)

Program Description
The Accounting Technology Management Technical Certificate, offered at all BC locations and online, is part of the existing Associate of Science Degree in Accounting Technology. This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers such as accounts receivable coordinators, accounts payable coordinators, bookkeepers, credit and collections coordinators, payroll coordinators, accountants, auditors, and other accounting paraprofessionals in advanced professional accounting occupations. The program focuses on providing students with technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills. This certificate can be taken as a stand-alone program or in conjunction with the AS degree in Accounting Technology.

For more information call 954-201-6889.

Related Programs
Accounting Technology Associate in Science Major Code 2100 (2100E)
Accounting Technology Operations Technical Certificate Major Code 6323
Accounting Technology Specialist Technical Certificate Major Code 6324

First Year Term I
ACG2001 Principles of Accounting I 3
CGS1060C Computer and Internet Literacy*** 3
GEB1011 Introduction to Business 3
Elective Business Elective** 3
Total Term Semester Hours 12

First Year Term II
ACG2011 Principles of Accounting II* 3
TAX2000 Income Tax I 3
SPC1608 Public Speaking or SPC1024 Introduction to Speech Communication 3
Total Term Semester Hours 9

First Year Term III
ACG2071 Managerial Accounting* 3
ACG2450C Computerized Accounting Applications* 3
Total Term Semester Hour 6

Total Certificate Semester Hours 27
* Requires a pre-requisite. See course description online at www.broward.edu/admissions/Pages/Health-Sciences-Admissions.aspx.
** Business Electives are satisfied by taking any one of the following courses: ECO2023, FIN1100, GER2112, MAN2021, MAN2604, MAR1011, MNA1161, or REE1040.
*** CGS1060C must be completed within the first 15 hours of Broward College coursework.

It is strongly recommended that students see an advisor every term.
ACCOUNTING TECHNOLOGY PROGRAMS
Accounting Technology Operations Technical Certificate Major Code 6323

Program Description
The Accounting Technology Operations Technical Certificate, offered at all BC locations and online, is part of the existing Associate of Science Degree in Accounting Technology. The purpose of this program is to prepare students for positions as accounts receivable/payable coordinators, bookkeepers, and related paraprofessional accounting offices or to provide supplementary training for persons previously or currently employed in those occupations. This certificate can be taken as a stand-alone program or in conjunction with the AS degree in Accounting Technology.

For more information call 954-201-6889.

Related Programs
Accounting Technology Associate in Science Major Code 2100 (2100E)
Accounting Technology Management Technical Certificate Major Code 62140 (6214E)
Accounting Technology Specialist Technical Certificate Major Code 6324

First Year Term I
ACG2001 Principles of Accounting I 3
CGS1060C Computer and Internet Literacy*** 3
Total Term Semester Hours 6

First Year Term II
ACG2011 Principles of Accounting II* 3
SPC1608 Public Speaking or SPC1024 Introduction to Speech Communication 3
Total Term Semester Hours 6

First Year Term III
ACG2071 Managerial Accounting* 3
ACG2450C Computerized Accounting Applications* 3
Total Term Semester Hours 6

Total Certificate Semester Hours 18

* Requires a pre-requisite. See course description online at www.broward.edu/admissions/Pages/Health-Sciences-Admissions.aspx.

*** CGS1060C must be completed within the first 15 hours of Broward College coursework.

It is strongly recommended that students see an advisor every term.

AUTOMOTIVE SERVICE MANAGEMENT TECHNOLOGY
Associate in Applied Science Technician Service Major Code A037

Program Description
This Automotive Service Management Technology program, offered at South Campus, is designed both to prepare entry-level automotive technicians and to provide academic background for advancement to management positions in the automotive service industry.

Corporate Programs: Automotive Technology Programs sponsored by Automobile Manufacturers are limited enrollment programs and require an internship at a dealership.

Master Technician Program: ASE (National Institute for Automotive Service Excellence) Certified Automotive Technicians may be eligible for up to 41 college credits based on lifelong learning and work experience.

For additional information about the programs listed above, contact the BC Automotive Technology Advisor at 954-201-8616 or email autotech@broward.edu.

Related Programs
Dealer Specific Automotive Technology A037

Academic Core Courses
ENC1101 Composition I * 3
GE Course General Education Humanities* 3
GE Course General Education Social/Behavioral Sciences* 3
MTB1310 Applied Mathematics * 3
SPC1024 Intro to Speech Communication or SPC1608 Intro to Public Speaking 3
MNA2345 Principles of Supervision or MNA1161 Introduction to Customer Service 3
AER2949 Cooperative Education (Internship) 6
Total Academic Core Credits 24

Technical Course Requirements
AER1081C Introduction to Automotive Technology # 4
AER1198C Engine Repair # 4
AER1698B Electrical Systems # 4
AER1095C Electronics # 4
AER2398C Manual Drive Train and Axle # 4
AER2298C Automatic Transmissions # 4
AER2895C Advanced Engine Performance # 4
AER2758C Heating and Air Conditioning Theory # 4
AER2498C Steering and Suspension # 4
AER2898C Engine Performance # 4
AER2598C Brake Systems # 4
AER2898B Engine Performance # 4
AER2998C Heating and Air Conditioning Theory # 4
AER29849 Cooperative Education (Internship) 6
AER2984 C Steering and Suspension # 4
Total Technical Service Credits 44
Total Technical Service Degree Credits 68

* General Education courses must be selected from the list of AS Degree courses found in the College Catalog/posted online at www.broward.edu/studentresources/advising/Pages/gened.aspx.

#  Credit is awarded for completion of a NATEF accredited Automotive Service Technology Program at Broward or Miami-Dade County Public Schools Technical Centers. Contact the program manager for additional details.

Students must fulfill the College’s computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

It is strongly recommended that students see an advisor every term.
It is strongly recommended that students see an advisor every term.

For additional information about the programs listed above, contact the BC Automotive Technology Program Manager at 954-201-8616 or email autotech@broward.edu.
It is strongly recommended that students see an advisor every term.
Program Description
The Aviation Operations Associate in Science Degrees, offered at the Judson A. Samuels South Campus, are designed for individuals whose career objectives include operational and management positions within the aviation industry. The program also provides the foundation to pursue a bachelor’s degree in management. Selected aviation knowledge is provided together with general business management courses. It is strongly recommended students see the Admissions Coordinator at the Aviation Institute for additional information.

Related Programs
Professional Pilot Technology Associate in Science Major Code 2107
Air Traffic Control Associate in Applied Science Major Code A189
Airport Operations Management Associate in Science Major Code 2105
Airport Management Certificate Major Code 6304
Aviation Maintenance Management Associate in Science Major Code 2204
Aircraft Airframe Mechanics Vocational Certificate Major Code 5272
Aircraft Power Plant Mechanics Vocational Certificate Major Code 5273
Avionics Vocational Certificate Major Code 5299

Students can earn a degree from 2105 (2105E) or 21051, but not from both of these programs.

First Year Term I
ATT1100  Aeronautical Science*  3
ASC1050  Navigational Science I*  3
ENC1101  Composition I*  3
SPC1024  Introduction to Speech or SPC1608  Introduction to Public Speaking  3
CGS1060C  Computer and Internet Literacy or Elective  Aviation Elective **  3
Total Term Semester Hours  15

First Year Term II
AVM2301  General Aviation Marketing and Management  3
ENC1102  Composition II* or ACG2001  Principles of Accounting I (1)  3
ENC2210  Technical Report Writing* or STA2023  Elementary Statistics*  3
ASC1010  Aviation History  3
AVM2410  Airport Management  3
MAC1105  College Algebra*  3
Total Term Semester Hours  15

First Year Term III
POS2041  National Government  3
GE Course  General Education Humanities*  3
Total Term Semester Hours  6

Second Year Term I
AVM2510  Airline Management  3
ASC1210  Aviation Weather*  3
ECO2013  Principles of Economics I (1)  3
AGC2001  Principles of Accounting I (1)  3
STA2013  Elementary Statistics*  3
Total Term Semester Hours  15

Second Year Term II
ECO2023  Principles of Economics II * (1)  3
AGC2011  Principles of Accounting II * (1)  3
ECO2013  Principles of Economics I (1)  3
AGC2001  Principles of Accounting I (1)  3
PHY1001L  Applied Physics Lab I * (2)  1
PHY1001  Applied Physics I * (2)  3
ASC2870  Aviation Safety *  3
Total Program Semester Hours  15

Continued on next page.

(1) Student interested in flight operations may substitute the following courses for those marked with (1):
ATT2120  Instrument Flight Theory, or
ATT2710  Commercial Flight Theory, or
Elective A Flight Course: ATF 1100, ATF 2200, ATF 2210, or ATF 2500 for which Flight training costs apply.
(2) PHY2053 General Physics I and PHY2053L General Physics I Lab may be substituted by students who have the appropriate math pre-requisites. Some universities require General Physics.

It is strongly recommended that students see an advisor every term.
AVIATION INSTITUTE
Aviation Maintenance Management Associate in Science Major Code 204

Program Description
The Aviation Maintenance Management Associate in Science degree provides students with the academic skills to complement their technical training. The plan of study complies with the Federal Aviation Regulations Part 147 for an approved aviation maintenance technician’s school, and, in addition, offers the advantages of college-level academic and management courses.

Students seeking an Associate in Science degree in Aviation Maintenance Management must complete the general requirements for both the Airframe Mechanics and Power Plant Mechanics diplomas or possess a valid FAA A & P certificate.

Related Programs
Professional Pilot Technology Associate in Science Major Code 2107
Air Traffic Control Associate in Science Major Code 2108
Aviation Operations Associate in Science Major Code 2105
Airport Management Certificate Major Code 6304

§ Students can earn a degree from 2105 (2105E) or 21051, but not from both of these programs.

First Year Term I (General)
AMT1001 Basic Electricity * 2
AMT1010 Aircraft Drawings * 1
AMT1020 Weight & Balance * 1
AMT1030 Fluid Lines & Fittings * 1
AMT1040 Material Processors * 2
AMT1050 Ground Operations and Servicing * 1
AMT1060 Cleaning and Corrosion Control * 1
AMT1070 Applied Mathematics * 1
AMT1081 FAR’s, Forms and Privileges. * 1
AMT1090 Basic Physics * 1
Total Term Semester Hours 12

First Year Term II (Airframe I)
AMT1110 Aircraft Wood Structures * 1
AMT1115 Aircraft Covering * 1
AMT1120 Aircraft Finishes * 1
AMT1130 Sheet Metal Structures * 4
AMT1140 Aircraft Welding * 1
AMT1160 Assembly and Rigging * 1
Total Term Semester Hours 12

First Year Term II (Airframe II)
AMT1160 Airframe Inspection * 1
AMT1210 Hydraulics and Pneumatic System * 2
AMT1220 Cabin Atmosphere Control Systems * 1
AMT1230 Aircraft Instrument Systems * 1
AMT1240 Communications and Navigation Systems * 1
AMT1250 Aircraft Fuel Systems * 1
AMT1260 Aircraft Electrical Systems * 1
AMT1270 Position and Warning Systems * 1
AMT1285 Ice/Rain/Fire Protection * 1
Total Term Semester Hours 12

Second Year Term I (Power Plant I)
AMT2300 Reciprocating Engines * 5
AMT2312 Turbine Engines &
AMT2400 Engine Instrument Systems * 1
AMT2420 Engine Electrical Systems * 2
Total Term Semester Hours 12

Second Year Term II (Power Plant II)
AMT2410 Engine Fire Protection Systems * 1
AMT2420 Engine Inspection * 1
AMT2430 Engine Fuel Systems * 1
AMT2450 Fuel Metering Systems * 1
AMT2460 Induction Systems * 1
AMT2451 Fuel Metering Systems * 2
AMT2461 Engine Inspection * 1
Total Term Semester Hours 12

Total Airframe & Power Plant Credits 60

Term III (Airframe II)
AMT1160 Airframe Inspection * 1
AMT1210 Hydraulics and Pneumatic System * 2
AMT1220 Cabin Atmosphere Control Systems * 1
AMT1230 Aircraft Instrument Systems * 1
AMT1240 Communications and Navigation Systems * 1
AMT1250 Aircraft Fuel Systems * 1
AMT1260 Aircraft Electrical Systems * 1
AMT1270 Position and Warning Systems * 1
AMT1285 Ice/Rain/Fire Protection * 1
Total Term Semester Hours 12

Term IV (Power Plant II)
AMT2300 Reciprocating Engines * 5
AMT2312 Turbine Engines &
AMT2400 Engine Instrument Systems * 1
AMT2420 Engine Electrical Systems * 2
Total Term Semester Hours 12

Total Term Semester Hours 83

+ General Education courses must be selected from the list of AS Degree courses found in the College Catalog/posted on line at www.broward.edu/studentresources/advising/Pages/gened.aspx

* Requires a pre- or co-requisite or proper score on placement test. See course description online at www.broward.edu/zext/ext/CourseDescDepartmentList.jsp.

**Students must fulfill the College’s computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

It is strongly recommended that students see an advisor every term.
It is strongly recommended that students see an advisor every term.
# AVIATION INSTITUTE

**Avionics Vocational Certificate Major Code 5299**

Program Description
Broward College’s Aviation Institute is proud to offer a 720 hour (two terms) certificate program. It’s a blended course that meets twice weekly on campus and three times a week online. On campus days will be dedicated to NIHA electronics labs, aircraft visits and projects. State-of-the-art NIHA electronics training equipment is utilized for this program and FCC testing is available on site. Avionics systems testing is accomplished utilizing B727 aircraft.

Avionics systems are an integral part of aircraft design and have vastly increased aircraft capability. As a result, the growing use of technology in aviation is requiring technicians to spend more time on repairing electronic systems, such as computerized controls. The course content includes, but is not limited to, troubleshooting, repair and installation of airborne radio communications, radio navigation and radar equipment systems in accordance with regulatory and industry standards. Also included is instruction in basic AM and FM transmitters/receivers and avionics equipment. Skills preparation for passing licensing/certification tests required by industry forms an integral part of the curriculum.

Those courses are offered in 360 hour blocks and require an interview with the Aviation Admissions Coordinator or the Aviation Maintenance Associate Dean prior to enrollment.

## Entrance Requirements
There are three optional entry points into this program:

1. Completion of Airframe Powerplant training or Certification.
2. Electronics training to include:
   - EET1013C DC Circuits
   - CETI114C Digital Techniques
   - MBTI120C Engineering Tech, Mathematics I
   - EET1025C AC Circuits
   - CETI1141C Linear Techniques I
   - MBTI1206C Engineering Tech, Mathematics II
   - CETI1117C Microprocessors I
3. Previous Industry experience: To be evaluated by the Aviation Maintenance Associate Dean.

## Related Programs

- **Professional Pilot Technology Associate in Science Major Code 2105**
- **Aviation Operations Associate in Science Major Code 21051**
- **Aviation Management Major Code 5272**
- **Aviation Maintenance Management Associate in Science Major Code 2204**
- **Airport Operations Management Associate in Science Major Code 21051**
- **Air Traffic Control Associate in Applied Science Major Code A039**
- **Aviation Elective**

## Program Description

The Professional Pilot Program, offered at Judson A. Samuel’s South Campus, provides the flight and ground school requirement for the private and commercial pilot certificates with instrument rating as well as an Associate in Science degree. The multi-engine rating and flight instructor certificate is optional. The pilot ground school is fully approved by the FAA and the College is certified as an FAA Air Agency under Federal Aviation Regulations Part 141. BC’s Aviation Institute partners with a contracted flight training provider for flight courses assisting BC students with flight-related career development opportunities. BC graduates who have chosen to also complete the Flight Instructor Certificates will be eligible to interview to become a Flight Instructor in the program. Students who wish to obtain a bachelor’s degree can transfer BC’s credits to a four-year institution.

It is strongly recommended students see the Admissions Coordinator at the Aviation Institute for additional information.

## Professional Pilot Technology

Prepares students for FAA certification as private pilot and commercial pilot with instrument rating with career-path opportunities to include multi-engine rating and certified flight instructor. Career path graduates are provided job interviews and job placement opportunities.

### Related Programs

- **Aviation Operations Associate in Science Major Code 2105 (2105E)**
- **Aviation Maintenance Management Major Code 2204**
- **Airport Operations Management Major Code 21051**
- **Air Traffic Control Associate in Applied Science Major Code A039**
- **Aviation Elective**

### First Year Term I

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<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ATT1100</td>
<td>Aeronautical Science *</td>
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<tr>
<td>ASC1100</td>
<td>Navigational Science *</td>
<td>3</td>
</tr>
<tr>
<td>ATT1100</td>
<td>Primary Flight *</td>
<td>3</td>
</tr>
<tr>
<td>ASC1010</td>
<td>History of Aviation *</td>
<td>3</td>
</tr>
<tr>
<td>CGS1080C</td>
<td>Computer and Internet Literacy **</td>
<td>3</td>
</tr>
<tr>
<td>MAC2233</td>
<td>Business Calculus **</td>
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<tr>
<td>MGF 1106</td>
<td>Mathematics for Liberal Arts I *</td>
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</tr>
<tr>
<td>MGF 1107</td>
<td>Mathematics for Liberal Arts II *</td>
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### First Year Term II

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<th>Course Title</th>
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<tr>
<td>ASC1210</td>
<td>Aviation Weather *</td>
<td>3</td>
</tr>
<tr>
<td>ASC2110</td>
<td>Navigational Science II *</td>
<td>3</td>
</tr>
<tr>
<td>ATT2200</td>
<td>Instrument Flight Theory *</td>
<td>3</td>
</tr>
<tr>
<td>ATT2200</td>
<td>Commercial Flight I *</td>
<td>2</td>
</tr>
<tr>
<td>AFT2000</td>
<td>Aviation Electric *</td>
<td>3</td>
</tr>
<tr>
<td>AFT2600</td>
<td>Flight Simulator Training *</td>
<td>3</td>
</tr>
<tr>
<td>PHY1010</td>
<td>Applied Physics I *</td>
<td>3</td>
</tr>
<tr>
<td>PHY1010L</td>
<td>Applied Physics Lab *</td>
<td>3</td>
</tr>
<tr>
<td>SPC1024</td>
<td>Introduction to Speech</td>
<td>1</td>
</tr>
<tr>
<td>SPC1068</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SPC1069</td>
<td>Introduction to Speech</td>
<td>3</td>
</tr>
</tbody>
</table>

### Second Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASC2110</td>
<td>Aircraft Engine, Structures, and Systems *</td>
<td>3</td>
</tr>
<tr>
<td>ATT2210</td>
<td>Commercial Flight I **</td>
<td>3</td>
</tr>
<tr>
<td>PHY1010</td>
<td>Applied Physics *</td>
<td>3</td>
</tr>
<tr>
<td>PHY1010L</td>
<td>Applied Physics Lab *</td>
<td>3</td>
</tr>
<tr>
<td>SPC1024</td>
<td>Introduction to Speech</td>
<td>1</td>
</tr>
<tr>
<td>SPC1068</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SPC1069</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
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</table>

### Related Programs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AVS0899C</td>
<td>Avionics Fundamentals</td>
<td>180</td>
</tr>
<tr>
<td>AVS0991C</td>
<td>Avionics Installer</td>
<td>180</td>
</tr>
<tr>
<td>AVS0992C</td>
<td>Avionics Communication Systems</td>
<td>180</td>
</tr>
<tr>
<td>AVS0993C</td>
<td>Navigation/Support Systems Items</td>
<td>180</td>
</tr>
<tr>
<td>*Program Clock Hours</td>
<td></td>
<td>720</td>
</tr>
</tbody>
</table>

It is strongly recommended that students see an advisor every term.
AVIATION INSTITUTE
Professional Pilot Technology Associate in Science Major Code 2107 (cont.)

* Requires a pre- or co-requisite or proper score on placement test. See course description online at www.broward.edu/text/ext/CourseDescDepartmentList.jsp.

** CGS1060C must be completed within the first 15 hours of Broward College coursework. Students who successfully complete the Basic Student Technology literacy Test may select from the following list of courses to complete the degree requirement:

AVM2450 Airport Planning and Design,
ASC2320 Aviation Law and Regulations,
AVM2510 Airline Management, or
AVM2301 General Aviation Marketing and Management

(1) Flight training costs apply.

(2) Aviation Elective: Students may select ATF 2500, Flight Instructor Training; or ATF2400, Multi-Engine, with ATF2650, Multi-Engine Simulator, or select another Aviation course as an elective. See Aviation Department for other options.

(3) Students transferring to Florida Atlantic University (FAU), Bachelor of Business Administration, major in Management (BBA) should take ECO2013 for their General Education Social/Behavioral Science and MAC 2233 for their General Education Mathematics course. They may complete the following courses at BC:

ENC1102, Composition II;
STA 2023, Introduction to Statistics,
ACG2001, Accounting I;
ACG 2011, Accounting II, and
ECO, Economics II.

(4) PHY2053, General Physics I and PHY2030L, General Physics I Lab may be substituted by students with the appropriate math pre-requisites. Some universities require General Physics.

+ General Education courses must be selected from the list of AS Degree courses found in the College Catalog/posted online at www.broward.edu/studentresources/advising/Pages/gened.aspx

Credit for Experiential Learning: Students who possess an FAA certificate or rating obtained before enrolling in the Professional Pilot program should contact the department to request credit for certain courses.

It is strongly recommended that students see an advisor every term.

AVIATION INSTITUTE
Commercial Flight Operations Technical Certificate Major Code 6321

Program Description
The Commercial Flight Operations Technical Certificate, offered at the Judson A. Samuels South Campus, is part of the existing Associate of Science Degree in Professional Pilot Technology. The purpose of this program is to provide instruction in: safe and efficient work practices, FAA pilot certification procedures, aircraft systems and components, flight safety, instrumentation; and employability skills. This is not a flight certificate; this certificate is an academic credential of aeronautical background and knowledge. This certificate can be taken as a stand-alone program or in conjunction with the AS degree in Professional Pilot Technology.

For more information call 954-201-8087.

Related Program:
Professional Pilot Technology Associate in Science Major Code 2107

Technical Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASC1100</td>
<td>Navigational Science I *</td>
<td>3</td>
</tr>
<tr>
<td>ASC1210</td>
<td>Aviation Weather *</td>
<td>3</td>
</tr>
<tr>
<td>ASC1610</td>
<td>Aircraft Engines, Structures, and Systems *</td>
<td>3</td>
</tr>
<tr>
<td>ASC2110</td>
<td>Navigation Science II *</td>
<td>3</td>
</tr>
<tr>
<td>ASC2870</td>
<td>Aviation Safety *</td>
<td>3</td>
</tr>
<tr>
<td>ATT1100</td>
<td>Aeronautical Science</td>
<td>3</td>
</tr>
<tr>
<td>ATT2110</td>
<td>Commercial Flight Theory *</td>
<td>5</td>
</tr>
<tr>
<td>ATT2120</td>
<td>Instrument Flight Theory</td>
<td>5</td>
</tr>
</tbody>
</table>

Total term credit hours 24

* Requires a pre- or co-requisite or proper score on placement test. See course description online at www.broward.edu/text/ext/CourseDescDepartmentList.jsp.

It is strongly recommended that students see an advisor every term.
BUILDING CONSTRUCTION TECHNOLOGY
Associate in Science Major Code 2184

Program Description
The Building Construction Technology Program, offered at the Willis Holcombe Center (Downtown), prepares students for employment in the construction industry as assistant building inspectors, estimators, plan examiners, schedulers and project managers. The courses emphasize fundamentals and techniques of building construction.

First Year Term I
CGS1060C Computer and Internet Literacy ** 3
ENC1101 Composition I* 3
MAC1180 College Algebra* 3
FFP1510 Codes and Standards 2
BCN1272 Building Construction Plans Interpretation 2
Total Term Semester Hours 14

First Year Term II
BCN1251C Building Construction Drawing I* 4
ARC2461 Materials and Methods Construction 4
BCT2760 Building Codes and Regulations 3
BCT2040 MEP Plans Interpretation 2
BCT1770 Construction Estimating I 2
Total Term Semester Hours 15

First Year Term III, Session II
GE Course General Education Social & Behavioral Science 3
GE Course General Education Humanities 3
Total Term Semester Hours 6

Second Year Term I
PHY1001 Applied Physics 3
BCN2253C Building Construction Drawing II* 4
BCT2760 Building Codes and Regulations 3
BCN1272 Building Construction Plans Interpretation 2
Total Term Semester Hours 15

Second Year Term II
BCT2767C MEP Drawing 3
SPC1028 Introduction to Speech 3
BCT1743 Construction Law 2
GRA2403 Project Management 3
BCT2941L Building Construction Field Experience 1
BCT2710 Infrastructure Coordination 2
Total Term Semester Hours 14

Total Program Semester Hours 64

* Requires a pre- or co-requisite. See course description online at www.broward.edu/zext/ext/CourseDescDepartmentList.jsp

** CGS1060C must be completed within the first 15 hours of Broward College coursework.

It is strongly recommended that students see an advisor every term.

BUILDING CONSTRUCTION
Building Construction Specialist Technical Certificate Major Code 6315

Program Description
The Building Construction Specialist Technical Certificate, offered at the Willis Holcombe Center (Downtown), is part of the existing Associate of Science Degree in Building Construction Technology. This certificate is designed for those currently employed in the construction industry, or for persons seeking entry-level employment in areas such as estimators, construction inspectors, materials testers, quality control assistants, or schedulers. The certificate can be taken as a stand-alone program or in conjunction with the Building Construction Technology AS degree.

For additional information call 954-201-7412.

Related Program:
Building Construction Technology Major Code 2184

Technical Core Courses
BCT 1770 Construction Estimating I 2
ARC 2461 Materials and Methods of Construction 4
BCN 1253C Building Construction Drawing I 4
BCT 2560 Building Codes and Regulations 3
BCN 1272 Building Construction Plans Interpretation 2
BCN 2560 Mechanical and Electrical Systems 3

Total term credit hours 18

It is strongly recommended that students see an advisor every term.
It is strongly recommended that students see an advisor every term.
It is strongly recommended that students see an advisor every term.

**CGS1060C must be completed within the first 15 hours of Broward College coursework.**

## Business Administration

The Business Management Technical Certificate is part of the existing Associate of Science Degree in Business Administration. This certificate is designed to prepare students to become small business owners and managers, or to provide supplemental training for persons previously or currently employed in these positions. This certificate can be taken as a stand-alone program or in conjunction with the AS degree in Business Administration or another related technical certificate or degree. All courses are available on-line.

### Related Programs

- Business Administration Associate in Science Major Code 2119 (2119E)
- Customer Service Group Technical Certificate Major Code 62672
- Sports Management Group Technical Certificate Major Code 62673
- Business Specialist Technical Certificate Major Code 6288 (6288E)
- Entrepreneurship Management Technical Certificate Major Code 62674

### Business Operations Technical Certificate Major Code 6320

**Core Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS1060C</td>
<td>Computer and Internet Literacy **</td>
<td>3</td>
</tr>
</tbody>
</table>

**Choose one course (3 credits) from the following areas:**

- Communications Area

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKA1021</td>
<td>Salesmanship</td>
<td>3</td>
</tr>
<tr>
<td>MKA1511</td>
<td>Advertising</td>
<td>3</td>
</tr>
</tbody>
</table>

**Choose three courses (9 credits) from the following areas:**

- Accounting/Finance/Eco Group

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC2001</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACC2011</td>
<td>Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACC2071</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>FIN1100</td>
<td>Personal Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

**Choose three courses (9 credits) from only one of the following areas:**

- Banking Group OR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO2013</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO2023</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO2220</td>
<td>Money and Banking</td>
<td>3</td>
</tr>
<tr>
<td>FIN1100</td>
<td>Personal Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

- Customer Service Group OR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC1024</td>
<td>Introduction to Speech</td>
<td>3</td>
</tr>
<tr>
<td>SPC1688</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

- Management Specialization

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSE1235</td>
<td>Communications in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>SPC1024</td>
<td>Introduction to Speech</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credit Hours 24

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*Requires a pre-requisite or proper score on placement test. See course description online at www.broward.edu/seg/ COURSEDesc/ DepartmentList. jsp.

**CGS1060C must be completed within the first 15 hours of Broward College coursework.**
BUSINESS ADMINISTRATION
Business Specialist Technical Certificate Major Code 6288 (6288E)

Program Description
The purpose of these certificate programs is to prepare students for specialist or supervisory positions in a variety of business environments, or to provide supplemental training for persons previously or currently employed in management and supervisory occupations. Upon successful completion of this program, the student can proceed toward completion of an advanced certificate or an A.S. or A.A.S. degree. The content of instruction includes the areas of planning, organizing, directing, and controlling of a business, with the emphasis on selected theories of management and decision making and, the knowledge and understanding necessary for managing people and functions. All courses are available on-line.

Related programs
International Business Management Specialization Associate in Science Major Code A007
Business Administration Associate in Science Major Code 2119
Business Management Technical Certificate Major Code 62671
Sports Management Specialization Technical Certificate Major Code 62672
Entrepreneurship Technical Certificate Major Code 62674

Option 1 International Business Option
The purpose of this certificate is to prepare students for employment in specialist or supervisory occupations in such areas as: documentation/billing, international trade, traffic/transportation/warehousing, or other mid-management or specialist positions in the international business field.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG2001 Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>CGS1060C Computer and Internet Literacy</td>
<td>3</td>
</tr>
<tr>
<td>MAN2604 International Business Environment</td>
<td>3</td>
</tr>
<tr>
<td>MTH1103 Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Total Certificate Semester Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

It is strongly recommended that students see an advisor every term.

Note: The Major Code 6288E is for students who take this program on-line.

Option 2: Small Business Management Option
The purpose of this certificate is to prepare students for employment in specialist or supervisory occupations in such areas as: customer service, employee relations, merchandising, production, distribution, or other management positions.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG2001 Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>GEBH101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MNA2245 Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>OST2335 Communications in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>Total Certificate Semester Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

Note: The Major Code 6288E is for students who take this program on-line

It is strongly recommended that students see an advisor every term.

BUSINESS ADMINISTRATION
BUSINESS MANAGEMENT CERTIFICATES
Entrepreneurship Management Technical Certificate Major Code 62674

Program Description
The Entrepreneurship Management Technical Certificate, offered at A. Hugh Adams Central, North, and Judson A. Samuels South Campuses, is a program designed to prepare students to become small business owners and managers. Upon successful completion of this program, the student can also proceed toward completion of an AS or AAS Degree in either Business Administration or Marketing Management.

Related Program
International Business Management Specialization Associate in Applied Science Major Code A007
Business Administration Associate in Science Major Code 2119 (2119E)
Business Management Technical Certificate Major Code 62671 (6267E)
Business Specialist Technical Certificate Major Code 6288 (6288E)
Sports Management Specialization Technical Certificate Major Code 62672
Entrepreneurship Technical Certificate Major Code 62674

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKA1021 Salesmanship</td>
<td>3</td>
</tr>
<tr>
<td>MNA1821C Introduction to E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>MAR1011 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MNA1161 Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>MCA2021 Introduction to Management</td>
<td>3</td>
</tr>
<tr>
<td>GEB2112 Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ACG2001 Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>GEB1003 Accounting Survey</td>
<td>3</td>
</tr>
<tr>
<td>Elective Entrepreneurship Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total Certificate Semester Hours</td>
<td>24</td>
</tr>
</tbody>
</table>

* Choose one from the following electives:
  - BUL2241 Business Law I
  - CGS1060C Computer and Internet Literacy
  - GEB1011 Introduction to Business
  - MKA1930 Seminar I/Marketing in Perspective
  - OST2335 Communications in the Workplace

It is strongly recommended that students see an advisor every term.

Note: Students can earn a certificate from 62671, 62672, 62673, or 62674, but not from two or more of these programs.
# COMPUTER INFORMATION ADMINISTRATOR

**Computer Systems Specialist Associate in Science Major Code 21491**

## Program Description

The Computer Systems Specialist Associate in Applied Science Degree, offered at North and A. Hugh Adams Central Campus, is designed to prepare for the growing business market of microcomputer applications, Internet, security, programming, networking, and troubleshooting.

## Related Programs
- Tech Support Specialist Associate in Science Major Code 21492
- Help Desk Specialist Technical Certificate Major Code 62823
- Microsoft Office Specialist (MOS) Technical Certificate Major Code 62823

## Support Technician Technical Certificate Major Code 6284

### First Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAC1105</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>GE Course</td>
<td>General Education Science</td>
<td>3</td>
</tr>
<tr>
<td>CGS1808C</td>
<td>Computer and Internet Literacy</td>
<td>4</td>
</tr>
<tr>
<td>CS Elective</td>
<td>Computer Science Elective (1)</td>
<td>3</td>
</tr>
<tr>
<td>CGS1557C</td>
<td>Internet Site Design</td>
<td>3</td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
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### First Year Term II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS1133C</td>
<td>A+ Essentials</td>
<td>3</td>
</tr>
<tr>
<td>CTS1313C</td>
<td>A+ Practical</td>
<td>3</td>
</tr>
<tr>
<td>COP1354C</td>
<td>Introduction to C+ Programming</td>
<td>3</td>
</tr>
<tr>
<td>ENC2210</td>
<td>Professional and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>GE Course</td>
<td>General Education Humantities</td>
<td>3</td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
<td></td>
<td>14</td>
</tr>
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</table>

### First Year Term III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS1151B</td>
<td>Electronic Spreadsheet or Operating System</td>
<td>3</td>
</tr>
<tr>
<td>CTS2123C</td>
<td>Microsoft Specialist: Advanced Excel</td>
<td>3</td>
</tr>
<tr>
<td>CTS2383</td>
<td>Managing a Server Network</td>
<td>3</td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

### General Education Requirements

- **Computer Science Elective**: Any course with a CDA, CEN, CET, GCS, CIS, COP, or CTS prefix
  
  Note: Students must fulfill the College’s computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

- **General Education courses** must be selected from the list of AS Degree courses found in the College Catalog/posted online at www.broward.edu/studentresources/advising/Channels/gened.aspx

### Requirements

- Requires a pre- or co-requisite. See course description online at www.broward.edu/accet/ext/AsCourse/DepartmentList.jsp

### Technology courses should be taken in the sequence and term suggested unless approved by the Department’s Associate Dean.

It is strongly recommended that students see an advisor every term.

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# COMPUTER INFORMATION TECHNOLOGY

**Tech Support Specialist Associate Science**

### Specializations: Support Technician and Microsoft Office Specialist

## Program Description

The Technical Support Specialist Associate in Science degree, offered at the A. Hugh Adams Central Campus, prepares students for employment opportunities as technical support specialist. It is designed for students seeking the skills sets necessary to be successful in their careers as tech support specialist ranging from Microsoft Office Specialist (MOS), to CompTIA system, network, and security (A+, Net+ and Security+).

## Related Programs
- Computer Systems Specialist Associate in Science Major Code 21491
- Help Desk Specialist Technical Certificate Major Code 62823
- Microsoft Office Specialist (MOS) Technical Certificate Major Code 62823
- Support Technician Technical Certificate Major Code 6284

### First Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAC1105</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>GE Course</td>
<td>General Education Science</td>
<td>3</td>
</tr>
<tr>
<td>CGS1808C</td>
<td>Computer and Internet Literacy</td>
<td>4</td>
</tr>
<tr>
<td>CS Elective</td>
<td>Computer Science Elective (1)</td>
<td>3</td>
</tr>
<tr>
<td>CGS1557C</td>
<td>Internet Site Design</td>
<td>3</td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

### First Year Term II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS1133C</td>
<td>A+ Essentials</td>
<td>3</td>
</tr>
<tr>
<td>CTS1313C</td>
<td>A+ Practical</td>
<td>3</td>
</tr>
<tr>
<td>COP1354C</td>
<td>Introduction to C+ Programming</td>
<td>3</td>
</tr>
<tr>
<td>ENC2210</td>
<td>Professional and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>GE Course</td>
<td>General Education Humantities</td>
<td>3</td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

### First Year Term III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS1151B</td>
<td>Electronic Spreadsheet or Operating System</td>
<td>3</td>
</tr>
<tr>
<td>CTS2123C</td>
<td>Microsoft Specialist: Advanced Excel</td>
<td>3</td>
</tr>
<tr>
<td>CTS2383</td>
<td>Managing a Server Network</td>
<td>3</td>
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<tr>
<td>Total Term Semester Hours</td>
<td></td>
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### General Education Requirements

- **Computer Science Elective**: Any course with a CDA, CEN, CET, GCS, CIS, COP, or CTS prefix

  Note: Students must fulfill the College’s computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

### Requirements

- Requires a pre- or co-requisite. See course description online at www.broward.edu/accet/ext/AsCourse/DepartmentList.jsp

- **General Education courses** must be selected from the list of AS Degree courses found in the College Catalog/posted online at www.broward.edu/studentresources/advising/Channels/gened.aspx

- **CGS1606C** or any course with a CIS, COP or CTS prefix

  Note: Students must fulfill the College’s computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CG1060C to earn the degree.

### It is strongly recommended that students see an advisor every term.

1. **Prerequisite** – CTS1133C (with a grade of C or higher)
2. **Prerequisite** – CTS1213C (with a grade of C or higher)
3. **Prerequisite** – CTS1362C or CTS1230C or CTS1111C (each with a grade of C or higher)
4. **Prerequisite** – ENC1101
5. **Prerequisite** – CTS1313C and CTS1131C (each with a grade of C or higher)
6. **Prerequisite** – MAT0208
7. **Prerequisite** – MAT1053 or MTB1310
8. **Prerequisite** – CTS1114C (with a grade of C or higher)
Program Description
The Help Desk Specialist technical certificate program, offered at the A. Hugh Adams Central Campus, prepares students for employment opportunities as help desk specialists. It is designed for students seeking the skills set necessary to be successful in their careers ranging from advance knowledge of Microsoft Office to Microsoft Enterprise Desktop Support and CompTIA system and network (A+ and Net+).

Related Programs
Computer Systems Specialist Associate in Science Major Code 21491
Computer Information Technology Tech Support Specialist Associate in Science Option Major Code 21493
Microsoft Office Specialist (MOS) Technical Certificate Major Code 62823
Support Technician Technical Certificate Major Code 6284

1 Students can earn a degree from 21491, 21493 or 21495, but not from two or more of these programs.
2 Students can earn a certificate from either 62822 or 62823, but not from both programs.

Required Courses
CTS1133C A+ Essentials 3
CTS2131C A+ Practical 3
CTS1134C Network+ 4
CGS2100C Computer Applications 2
CTS2156C Microsoft Enterprise Desktop Support 3
Elective College-Level Course Elective* 1
Total Program Semester Hours 18

1. Prerequisite – CTS1133C (with a grade of C or higher)
2. Prerequisite – CGS1060C (with a grade of C or higher) or placement.
3. Prerequisites – CTS1327C or (CTS1213C and CTS1134C and CTS2131C) each with a grade of C or higher

* College-Level Course Elective: any college-level, transferable course.

It is strongly recommended that students see an advisor every term.
### Computer Programming and Analysis

**Program Description**
The Associate in Science Degree in Computer Programming & Analysis, offered at the A. Hugh Adams Central Campus, is designed to prepare students for the dynamic world of applications development, while also permitting the student to tailor the degree to their educational goals. Areas of choice include a wide variety of topic areas such as business and engineering programming, hardware and software support, computer applications, computer aided design, computer networking, database management, accounting, business, management, marketing, mathematics, physics, and statistics.

<table>
<thead>
<tr>
<th>Term</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Term I</td>
<td>CTS1133C 1.50 Introduction to Computer Science</td>
</tr>
<tr>
<td></td>
<td>COP1334C 3.00 Introduction to C++ Programming</td>
</tr>
<tr>
<td></td>
<td>ENC1101 3.00 General Education Social/Behavioral Science</td>
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<tr>
<td></td>
<td>SPC1012 3.00 Intro to Speech Communication</td>
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<tr>
<td></td>
<td>CTS1133C 3.00 A+ Essentials</td>
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<td></td>
<td>CTS2131C 4.00 A+ Practical</td>
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<td>CTS1134C 3.00 Networks</td>
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<td>CTS1527C 4.00 Microsoft Windows Client</td>
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<td>CET1600C 4.00 Network Cabling Technologies</td>
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**First Year Term II**

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<td>CTS2212C</td>
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<tr>
<td>COP2071C</td>
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<td>ENC1102</td>
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<td>GE Course</td>
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<td>CSC Elective</td>
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**Second Year Term I**

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<tr>
<td>COP Elective</td>
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<tr>
<td>CS Elective</td>
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</tr>
<tr>
<td>General Education Social/Behavioral Science</td>
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</tr>
<tr>
<td>Science</td>
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**Second Year Term II**

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<tr>
<td>CS Elective</td>
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<tr>
<td>Computer Science Elective**</td>
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<tr>
<td>CS Elective</td>
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<tr>
<td>Field Elective</td>
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<td>Computer Science Elective***</td>
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**Total Program Semester Hours**

- 63

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* OOP Electives: COP2560C or COP2800C
** COP Elective: Any course with a COP prefix or CTS1851C, CTS2403C, CTS2446C, CTS2446C, CTS2420C, CTS2425C, CTS2464C, CTS2465C, CTS2805C, CTS2825C, or CTS2857C
*** CS Elective: CGS1060C or any 1000 or 2000-level course with a CIS, COP or CTS prefix

* General Education courses must be selected from the list of AS Degree courses found in the College Catalog/pasted on line at www.broward.edu/studentresources/advising/Pages/gened.aspx.

**Note:** Students must fulfill the College's computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CG1060C to earn the degree.

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1. Prerequisite – CTS1133C (with a grade of C or higher) or Placement
2. Prerequisite – MAT1005 or MAT1130, Pre/Co-requisite – CIS1000C
3. Prerequisite – CIS1000C and COP1534C (each with a grade of C or higher)
4. Prerequisite – COP1534C (with a grade of C or higher), Pre/Co-requisite – CIS2212C
5. Prerequisite – ENC1101
6. Prerequisite – CTS2156C and COP1534C (each with a grade of C or higher)

---

It is strongly recommended that students see an advisor every term.
Institute of Public Safety

Criminal Justice Technology Associate In Science Emphases

Criminal Justice, Crime Scene or Polygraph Program Description

An AS degree in Criminal Justice may be earned by completing the General Education and Criminal Justice Core Requirements and courses indicated in the emphasis selected. The associate degree does not qualify students for state certification as corrections or law enforcement officers. A student must complete the Florida Criminal Justice Standards and Training Commission Basic Recruit Training Program for state certification.

Related Programs

Criminal Justice Certificates (restricted admission)
Broward County Correctional Probation Academy Major Code 5282
Broward County Police Academy Major Code 5269
Corrections Officer Academy Major Code 5270
Corrections Officer Crossover to Florida CMS Law Enforcement Major Code 5278
Correctional Probation Officier Crossover to FL CMS Law Enforcement Major Code 5296
Police Service Aide Academy Major Code 5271

Criminal Justice Core Courses
ENC1101 Composition I 5
ENC1102 Composition II* or
ENC2210 Technical Report Writing§ 5
GE Course General Education Science+ 5
GE Course General Education Mathematics+ 5
GE Course General Education Humanities+ 5
POSS64 National Government or
POSS112 State and Local Government 3
PSY2012 General Psychology or
SYG2000 General Sociology 3
SPC1024 Intro to Speech Communications or
SPC1088 Public Speaking 3
CGS1600C Computer and Internet Literacy** or
Elective Any college-level transferable course 3
CJL1000 Introduction to Criminal Justice 3
CJL1062 Constitutional Law 3
CJC2191 Human Behavior in Criminal Justice 3
CJE2600 Criminal Investigation 3

Total Core Semester Hours 39

* General Education courses must be selected from the list of AS Degree courses found in the College Catalog/ posted online at www.broward.edu/studentservices/advising/Pages/gened.aspx.

§ Requires a pre- or co-requisite. See course description online at www.broward.edu/next/next/CourseDesc/DepartmentList.jsp.

**CGS1600C is required unless the student successfully passes the basic student technology literacy test administered by BC. CGS1600C must be completed within the first 15 hours of Broward College coursework.

It is strongly recommended that students see an advisor every term.

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Criminal Justice Emphasis Major Code 21101

Students can earn a degree from 21101, 21102, or 21104, but not from two or more of these options.

Criminal Justice Core Courses 39
Criminal Justice Elective Courses§ 12
Elective Courses* 15
Total Program Semester Hours 64

§ Criminal Justice Elective Courses select four course from

CJC2900 Introduction to Corrections 3 CJL1100 Criminal Law 3
CJC2162 Pretrial and Parole Procedures 3 CJL1130 Criminal Evidence 3
CJC2201 Juvenile Justice 3 CJL2060 Civil Rights 3
CCJ2933 Corrections Practicum§ 3 GJE2649 Introduction to Criminalistics 3
CJL1140 Correctional Law 3 DSC1002 Terrorism & Domestic Security 3
CJE1500 Introduction to Criminal Justice Administration and Management 3 DSC1006 Introduction to Homeland Security 3
Total Program Semester Hours 64

* Elective Credits to be selected from CJC 2949, Criminal Justice Co-op and/or any transferable any College Level Courses.

Crime Scene Emphasis Major Code 21102

Students can earn a degree from 21101, 21102, or 21104, but not from two or more of these emphasis.

Criminal Justice Core Courses 39
CJL1100 Criminal Law 3 GJE2770 Forensic Photography and Visual
CJL1130 Criminal Evidence and Court Procedures 3 Documentation* 3
Elective Science Elective§ 3 GJE2642 Criminalistics Practicum** 3
Elective Science Elective§ 3 GJE2643 Advanced Forensic Investigation* 3
Elective Science Elective§ 11 Total Crime Scene Emphasis Semester Hours 25
CJE2640 Introduction to Criminalistics* 3 Total Program Semester Hours 64

1 Science and science lab elective courses must be selected from the list of AA Degree Science courses found in the College Catalog/ posted online at www.broward.edu/studentservices/advising/Pages/gened.aspx.

* Requires a pre- or co-requisite. See course description online at www.broward.edu/next/next/CourseDesc/DepartmentList.jsp.

§ Offered Term I & Term II

+ Offered in Term I and Term II, evening class

* Offered in Term III, evening class

** Offered in Term I, evening class

Polygraph Emphasis Major Code 21104

Students can earn a degree from 21101, 21102, or 21104, but not from two or more of these emphasis.

Criminal Justice Core Courses 39
GE Course General Education Course+ 3 GJE2723 Test Questions Construction and
GE Course General Education Course+ 3 Semantics, Personnel Screening # 3
General Education Courses 6 GJE2724 Test Questions Construction and
Total Program Semester Hours 64

§ General Education courses must be selected from the list of AA Degree courses found in the College Catalog/ posted online at www.broward.edu/studentservices/advising/Pages/gened.aspx.

§ Requires a pre- or co-requisite. See course description online at www.broward.edu/next/next/CourseDesc/DepartmentList.jsp.

* Polygraph Coursework

The credits for the Polygraph courses are awarded to a student through Experiential Learning for completing the polygraph training at Deception Control, Inc., Fort Lauderdale. Applicants must submit verification of completion of approved polygraph training to the Director of the Criminal Justice Degree Programs and to Experiential Learning.
It is strongly recommended that students see an advisor every term.

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Criteria for Admissions to the Police Academy Program

- High School diploma or GED.
- BAT (Basic Abilities Test)
- For more information on testing, please call 954-201-6931 or 954-201-6790.

Related Programs

AS Degrees

- Criminal Justice Emphasis Major Code 21101
- Crime Scene Emphasis Major Code 21102
- Polygraph Emphasis Major Code 21104

*Students can earn a degree from 21101, 21102, or 21104, but not from two or more of these emphases.

Criminal Justice Certificates (restricted admission)

- Correctional Probation Officer Academy Major Code 5282
- Correctional Officer Cross-Over to Florida CMS Law Enforcement Major Code 5278
- Correctional Probation Officer Cross-Over Training to Florida CMS Law Enforcement Major Code 5296
- Police Academy Major Code 5269
- Police Service Aide Major Code 5271

CMS Law Enforcement Auxiliary Officer Major Code 5301

Required Courses

- CJK0020 CMS Law Enforcement Vehicle
- CJK0025 CMS Law Enforcement Auxiliary Officer: Criminal Justice Legal 1
- CJK0030 CMS Law Enforcement Auxiliary Officer: Criminal Justice Legal 2
- CJK0035 CMS Law Enforcement Auxiliary Officer: Criminal Justice Communications
- CJK0045 CMS Law Enforcement Auxiliary Officer: Interpersonal Skills 1
- CJK0050 CMS Law Enforcement Auxiliary Officer: First Aid for Criminal Justice Officers
- CJK0060 CMS Law Enforcement Auxiliary Officer: Criminal Justice Firearms
- CJK0070 CMS Law Enforcement Auxiliary Officer: Emergency Preparedness
- CJK0080 CMS Law Enforcement Auxiliary Officer: Criminal Justice Defensive Tactics
- CJK0090 CMS Law Enforcement Auxiliary Officer: Criminal Justice Special Topics
- CJK0100 CMS Law Enforcement Auxiliary Officer: Interpersonal Skills 2
- CJK0110 CMS Law Enforcement Auxiliary Officer: Criminal Justice Communications
- CJK0120 CMS Law Enforcement Auxiliary Officer: Criminal Justice Legal 1

Total Clock Hours: 168

 Upon successful completion of the Correctional Officer Academy, a student is eligible to take the State Certification exam to become a Florida Law Enforcement Officer. Correction officers typically are employed in state prisons or county and city jails or stockades. A person must be hired or sponsored by a corrections or law enforcement agency before being enrolled in the Corrections Academy.

Upon successful completion of the Law Enforcement Officer crossover from Correctional Officer program, a currently certified Corrections Officer will be eligible to take the state certification exam to become a certified Florida Law Enforcement Officer.

It is strongly recommended that students see an advisor every term.
It is strongly recommended that students see an advisor every term.

Program Description
The Florida Criminal Justice Standards and Training Commission recognizes the Broward College Institute of Public Safety, located at A. Hugh Adams Central Campus, as a Law Enforcement and Corrections Training Center. As an authorized Training Center, the Institute of Public Safety offers seven certificate of achievement programs: The Broward County Police Academy Basic Recruit Certificate Program, The Broward County Correctional Officer Academy Basic Recruit Certificate Program, The Broward County Correctional Probation Officer Academy Certificate Program, Law Enforcement Officer-Crossover from Correctional Probation Officer; Auxiliary Law Enforcement Officer and the Police Service Aide Certificate Program.

Criteria for Admissions to the Police Academy Program
- High School diploma or GED.
- Must be 18 years of age or older.
- Must successfully pass the TABE test.
- Must be of Good Moral Character; having no felony convictions; no misdemeanor convictions involving moral character, perjury, false statement as outlined in Florida State Statute.
- Must not have been dishonorably discharged from the Armed Forces of the United States and provide copy of military documents.
- Live scan: All students must schedule an appointment for the Live Scan (fingerprinting)
- Must successfully pass the TABE test. Test Registration is to be completed on line at www.broward.edu/ips. For more information on testing call 954-201-6931 or 954-201-6790.
- Contact Barbara Green 954-201-6793 or Lynn Zipoli at 954-201-6792.

The completed Police Service Aide application must be submitted TWO WEEKS PRIOR TO START DATE. Applications and projected dates for academy are available on our website www.broward.edu Click on the Police Service Aide link or visit our office at the Central Campus, Building 21, Institute of Public Safety.

The Police Service Academy trains students who are civilians employed by law enforcement agencies as well as students who sponsor themselves. A Police Service Aide typically performs police duties that relate to non-criminal activities, such as parking enforcement or traffic accident investigations. The Police Service Academy meets the basic training requirements established by the Florida Criminal Justice Standards and Training Commission and the Florida Department of Education. A student who is accepted into the Police Service Aide Academy will take the following post-secondary adult vocational courses:

Required Courses
- CJIK0015 Introduction to Law Enforcement 11
- CJIK0040 Police Communications 76
- CJIK0011 Human Issues 40
- CJIK0020 CMS Vehicle Operations 48
- CJIK0051 CMS First Aid for Criminal Justice 40
- CJIK0049 Criminal Justice Firearms 80
- CJIK0051 Defensive Tactics 80
- CJIK0061 Patrol 58
- CJIK0062 Patrol 40
- CJIK0076 Crime Scene Investigations 24
- CJIK0071 Criminal Investigations 56
- CJIK0082 Traffic Stops 24
- CJIK0083 DUI Traffic Stops 24
- CJIK0086 Traffic Crash Investigation 32
- CJIK0096 Criminal Justice Officer 60
- CJIK0047 Dart-Firing Stun Gun 8
- Total Clock Hours 270

Upon successful completion of the Police Academy, a student is eligible to take the State Certification exam to become a certified Florida Law Enforcement Officer. A person must be hired or sponsored by a law enforcement agency before being enrolled in the Police Academy.

It is strongly recommended that students see an advisor every term.

In accordance with State law, students must score at least 80 percent to successfully complete the Academy. Students must also maintain excellent attendance and cannot miss more than 10 percent of scheduled class sessions. Students will wear uniforms and must follow Police Service Academy Rules of Conduct and Broward College Policy/Student Code of Conduct.

It is strongly recommended that students see an advisor every term.
It is strongly recommended that students see an advisor every term.

Upon successful completion of the Law Enforcement Auxiliary Officer program, the student will possess the skills necessary to volunteer at a Florida law enforcement agency. Law Enforcement Auxiliary Officer Program

Upon successful completion of the program, students are also required to complete the Broward College courses listed below. Upon successful completion of all required course work at Broward College and a Broward Technical Center students will be awarded an AS degree in Culinary Arts Management.

The Florida Criminal Justice Standards and Training Commission recognize the Broward College, Institute of Public Safety, located at A. Hugh Adams Central Campus, as a Law Enforcement and Corrections Training Center. As an authorized Training Center, the Institute of Public Safety offers seven certificates of achievement programs: Broward County Police Academy Basic Recruit Certificate Program, Broward County Correctional Officer Academy Basic Recruit Certificate Program, Broward County Correctional Probation Officer Academy Certificate Program, Correctional Probation Officer Crossover to Law Enforcement, Law Enforcement Officer-crossover from Correction Officer Certificate Program, Police Service Aide Certificate Program and the Law Enforcement Auxiliary Officer Programs.

### Criminal Justice Certificates

- Polygraph Emphasis Major Code 21104
- Crime Scene Emphasis Major Code 21101
- Criminal Justice Technology Associate in Science: Criminal Justice Emphasis Major Code 21101

### Culinary Arts Management

The Associate in Science degree in Culinary Arts Management emphasizes the development of practical culinary and management skills. The program is a joint program between Broward College and Broward Technical Centers (Atlantic, McFatter, and Sheridan Technical Centers). Students who enroll in this program are required to complete the Commercial Foods & Culinary Arts program at one of the Broward Technical Centers, in which 39 college credits will be awarded toward the Culinary Arts Management AS degree at Broward College. Students are also required to complete the Broward College courses listed below.

The program is a joint program between Broward College and Broward Technical Centers (Atlantic, McFatter, and Sheridan Technical Centers). Students who enroll in this program are required to complete the Commercial Foods & Culinary Arts program at one of the Broward Technical Centers, in which 39 college credits will be awarded toward the Culinary Arts Management AS degree at Broward College. Students are also required to complete the Broward College courses listed below.

### Related Programs

- Police Service Aide Academy Major Code 5201
- Corrections Officer Academy Major Code 5270
- Correctional Probation Officer Academy Major Code 5282
- Polygraph Emphasis Major Code 21104
- Criminal Justice Certificates (restricted admission)

### Required Courses

- Course Title
  - Law Enforcement Auxiliary Introduction 27
  - Law Enforcement Auxiliary Patrol and Traffic 19
  - Law Enforcement Auxiliary Investigations 17
  - DART-Firing Stun Gun 8
  - CMS First Aid for Criminal Justice Officer 40
  - CMS Criminal Justice Firearms 80
  - CMS Criminal Justice Defensive Tactics 80
  - CMS Criminal Justice Vehicle Operations 48

**Total Clock Hours:** 319

It is strongly recommended that students see an advisor every term.

For additional information contact the Program Manager at 954-201-6710

### General Education Courses

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<th>Credit Hours</th>
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<tr>
<td>SPC102 Intro to Speech Communication</td>
<td>3</td>
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<tr>
<td>SPC108 Public Speaking</td>
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<td>GE Course General Education Humanities</td>
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<td>HFT2410 Financial Management</td>
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<td>GEB2430 Business Ethics</td>
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**Total Required BC Credits:** 7

**Total AS Degree Credits:** 64

### Technical Course Requirements

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<tr>
<td>HFT2110 Supervisory Management</td>
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<td>FOS8201 Food Service Sanitation</td>
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<td>FSS1204C Quantity of Food Production</td>
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<tr>
<td>FSS1246C Baking &amp; Pastries I</td>
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<tr>
<td>FSS1294 Catering &amp; Banquet Management</td>
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<td>FSS2004C Quantity Food Production</td>
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<td>FSS2474C Baking &amp; Pastries II</td>
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<tr>
<td>FSS2248C Classical Cuisine</td>
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<tr>
<td>FSS2242C International &amp; Regional Foods</td>
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<tr>
<td>FSS2280 Food &amp; Beverage Cost</td>
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<tr>
<td>FSS2248C Garden Manager</td>
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<tr>
<td>FSS2250C Quantity Food Production</td>
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**Total Required BC Credits:** 7

**Total Technical Course Credits:** 39

**Total General Education Credits:** 18

**Total Required BC Credits:** 7

**Total AS Degree Credits:** 64

- General Education courses must be selected from the list of AS Degree courses found in the College Catalog posted on line at www.broward.edu/studentresources/advising/Pages/gened.aspx.

Special Note: Placement in English, Reading, Math, and Computer Literacy is required.

Note: Students must fulfill the College's computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CG1060C to earn the degree.

For the AS program, forty-two (42) credits will be awarded to students who successfully complete the Commercial Foods and Culinary Arts program at the Broward Technical Centers, Atlantic Technical Center 754-321-5100, McFatter Technical Center 954-201-5700, or Sheridan Technical Center 754-321-5400.

It is strongly recommended that students see an advisor every term.
It is strongly recommended that students see an advisor every term.
Complete the prerequisite general education courses prior to submitting an application to the program:

CHM1052 Chemistry for Health Sciences\(^*\) 3
BSC2085 Anatomy and Physiology I\(^*\) 3
BSC2086L Anatomy and Physiology I Lab\(^*\) 1

Total Semester Hours 7

Complete the following courses prior to admission into the program:

ENC1101 Composition I\(^*\) 3
SPE1001 Introduction to Public Speaking 3
SPC1024 Speech Communications 3
PSY2012 General Psychology 3
SYG2009 Principles of Sociology 3
GE Course General Education Mathematics\(^*\) 3
GE Course General Education Humanities\(^*\) 3
BSC2086 Anatomy and Physiology II\(^*\) 3
BSC2086L Anatomy and Physiology II Lab\(^*\) 1
MCR2010 Microbiology\(^*\) 3
MCR2010L Microbiology Lab\(^*\) 1
HUN1920 Essentials of Nutrition 3

Total Semester Hours 29

Complete a total of 11 credits utilizing any combination of DES courses.

Completion of an ADA accredited Dental Assistant Program that is listed in the database of the Florida Department of Education will provide the 11 credits necessary to satisfy this area (an experiential learning fee may be charged):

Total Semester Hours 11

Complete the following Dental Hygiene Courses:

DEH1001 Preclinical Dental Hygiene I\(^*\) 2
DEH1002 Preclinical Dental Hygiene I Lab\(^*\) 3
DEH1800 Dental Hygiene I\(^*\) 2
DEH1800L Dental Hygiene I Clinic\(^*\) 2
DEH1802 Dental Hygiene II\(^*\) 4
DEH1802L Dental Hygiene II Clinic\(^*\) 3
DES050 Pain Control and Dental Anesthesia\(^*\) 1
DEH1130 Oral Histology and Embryology\(^*\) 2
DEH1402 Periodontology\(^*\) 3
DEH1402L Periodontology Laboratory\(^*\) 1
DEH2300 Dental Pharmacology\(^*\) 2
DEH2400 General and Oral Pathology\(^*\) 2
DEH2701 Community Dental Health\(^*\) 2
DEH2701L Community Dental Health Lab\(^*\) 1
DEH2804 Dental Hygiene III\(^*\) 4
DEH2804L Dental Hygiene III Clinic\(^*\) 4
DEH2806 Dental Hygiene IV\(^*\) 2
DEH2806L Dental Hygiene IV Clinic\(^*\) 2
DEH2840L Advanced Dental Technology Lab\(^*\) 1

Total Semester Hours 41

Total Program Semester Hours 88

\(^*\) Requires a pre- or co-requisite. See the course description in this catalog or online at www.broward.edu/next/ctl/CourseDescDepartmentList.jsp.

\(^*\) General Education courses must be selected from the list of AS Degree courses found in the College Catalog/posted online at www.broward.edu/studentresources/advising/Pages/gened.aspx

It is strongly recommended that students see an advisor every term.
It is strongly recommended that students see an advisor every term.
## Program Description
The Digital Media/Multimedia Technology Associate in Applied Science Degree, offered at South Campus, is designed to prepare students to enter the emerging field of multimedia as a Multimedia Production Specialist.

### Related programs
- Digital Media Web Production Technical Certificate Major Code 6286
- Digital Media/Multimedia Production Technical Certificate Major Code 6287

### Program Description
This program is designed to prepare students for initial employment as Web production assistants, Web production artists, or to provide supplemental training for those already employed in the field. This basic-to-intermediate certificate provides students with the computer, digital media, and graphic production skills needed to create web sites.

### Related Programs
- Digital Media/Multimedia Technology Associate in Applied Science Major Code A018
- Digital Media/Multimedia Production Technical Certificate Major Code 6287

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG2100C</td>
<td>Web Development 1</td>
<td>3</td>
</tr>
<tr>
<td>DG2101C</td>
<td>Web Development 2 Using Dreamweaver</td>
<td>3</td>
</tr>
<tr>
<td>DG2280C</td>
<td>Digital Video/Audio Editing</td>
<td>3</td>
</tr>
<tr>
<td>DG2302C</td>
<td>Digital Art &amp; Design with Illustrator</td>
<td>3</td>
</tr>
<tr>
<td>DG2303C</td>
<td>3D Animation III</td>
<td>3</td>
</tr>
<tr>
<td>DG2511C</td>
<td>Fundamentals of Digital Media Using Flash Animation</td>
<td>3</td>
</tr>
<tr>
<td>DG2580C</td>
<td>Digital Media Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>DG2940C</td>
<td>Internship in Digital Media</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Semester Hours: 15

It is strongly recommended that students see an advisor every term.

---

### Program Description
This program is designed to prepare students for initial employment as Web production assistants, Web production artists, or to provide supplemental training for those already employed in the field. This basic-to-intermediate certificate provides students with the computer, digital media, and graphic production skills needed to create web sites.

### Related Programs
- Digital Media/Multimedia Technology Associate in Applied Science Major Code A018
- Digital Media Web Production Technical Certificate Major Code 6286

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG2100C</td>
<td>Digital Imaging Fundamentals Using Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>DG2116C</td>
<td>Digital Imaging Advanced</td>
<td>3</td>
</tr>
<tr>
<td>DG2280C</td>
<td>Digital Video/Audio Editing</td>
<td>3</td>
</tr>
<tr>
<td>DG2300C</td>
<td>Multimedia Authoring</td>
<td>3</td>
</tr>
<tr>
<td>DG2302C</td>
<td>3D Animation 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Semester Hours: 15

It is strongly recommended that students see an advisor every term.
**EARLY CHILDHOOD EDUCATION**

**Early Childhood Education Associate in Science Major Code 2166**

**Program Description**
Opportunities for a rewarding career in the early childhood field abound for the well trained professional interested in being a teacher of young children, supervisor of children’s programs, or owner of a child care facility.

The Associate in Science degree combines classroom and field experience to give the student the necessary background for success in the job market. Course work provides graduates with the ability to design an effective educational curriculum, manage children in a classroom setting, supervise early childhood personnel, and efficiently administer childcare business operations. This program is offered at North Campus; general education courses are taught at all BC locations.

**Related Programs:**
- Child Care Center Management Specialization Major Code 6316
- Infant/Toddler Specialization Major Code 6317
- Preschool Specialization Program Code 6318
- Child Development Specialization Program Code 6319

<table>
<thead>
<tr>
<th>Course</th>
<th>Total Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101 English Composition*</td>
<td>3</td>
</tr>
<tr>
<td>ENC1102 Composition II or</td>
<td>3</td>
</tr>
<tr>
<td>ENC2210 Technical Report Writing*</td>
<td>3</td>
</tr>
<tr>
<td>SPC1024 Introduction to Speech Communications *</td>
<td>3</td>
</tr>
<tr>
<td>PSY2012 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>DEP2002 Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HLP1081 Total Wellness</td>
<td>2</td>
</tr>
<tr>
<td>GE Course</td>
<td>3</td>
</tr>
<tr>
<td>GE Course</td>
<td>3</td>
</tr>
<tr>
<td>GE Course</td>
<td>3</td>
</tr>
<tr>
<td>GE Course</td>
<td>3</td>
</tr>
<tr>
<td>General Education Humanities+</td>
<td>3</td>
</tr>
<tr>
<td>General Education Humanities+</td>
<td>3</td>
</tr>
<tr>
<td>General Education Science+</td>
<td>3</td>
</tr>
<tr>
<td>General Education Science Lab</td>
<td>1</td>
</tr>
<tr>
<td>General Education Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>General Education Humanities+</td>
<td>3</td>
</tr>
<tr>
<td>General Education Social</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Science+</td>
<td>3</td>
</tr>
<tr>
<td>Electives Any college-level course</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education courses must be selected from the list of AAS Degree courses found in the College Catalog/posted online at www.broward.edu/studentresources/advising/Pages/gened.aspx

* Requires a pre- or co-requisite. See course description online at www.broward.edu/extend/Ext/CourseDescDepartmentList.jsp.

**Total Program Semester Hours:** 63

This certificate can be taken as a stand-alone program or in conjunction with the AS degree in Early Childhood Education.

For more information call 954-201-2273.

**EARLY CHILDHOOD EDUCATION**

**Child Care Center Management Specialization Major Code 6316**

**Program Description**
The Child Care Center Management Specialization Technical Certificate, offered at the North Campus, is part of the existing Associate of Science Degree in Early Childhood Education. The purpose of this program is to prepare students as child care administrators with the knowledge and skills to effectively manage a quality childcare program or to provide supplementary training for persons previously or currently employed in these occupations. This certificate can be taken as a stand-alone program or in conjunction with the AS degree in Early Childhood Education.

For more information call 954-201-2273.

**Related Programs:**
- Early Childhood Education Associate in Science Major Code 2166
- Infant/Toddler Specialization Major Code 6317
- Preschool Specialization Program Code 6318
- Child Development Specialization Program Code 6319

<table>
<thead>
<tr>
<th>Technical Courses</th>
<th>Total program credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD3120 Curriculum Planning For Early Childhood</td>
<td>5</td>
</tr>
<tr>
<td>CHD2800 Admin and Mgmt. in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EEC1200 Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EEC1603 Child Guidance</td>
<td>5</td>
</tr>
</tbody>
</table>

Total program credit hours: 12

It is strongly recommended that students see an advisor every term.
EARLY CHILDHOOD EDUCATION
Preschool Specialization Program Code 6318

Program Description
The Preschool Specialization Technical Certificate, offered at the North Campus, is part of the existing Associate of Science Degree in Early Childhood Education. The purpose of this program is to prepare students as early childhood education caregivers with a preschool specialization or to provide supplementary training for persons previously or currently employed in these occupations. This certificate can be taken as a stand-alone program or in conjunction with the AS degree in Early Childhood Education. For more information call 954-201-2273.

Related Programs:
- Early Childhood Education Associate in Science Major Code 2166
- Child Care Center Management Specialization Major Code 6316
- Infant/Toddler Specialization Major Code 6317
- Child Development Specialization Program Code 6319

Technical Courses
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD1320</td>
<td>Curriculum Planning For Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CHD2800</td>
<td>Admin and Mgmt. in E C Education</td>
<td>3</td>
</tr>
<tr>
<td>DEP2002</td>
<td>Developmental PSY I: Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EEC1603</td>
<td>Child Guidance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total program credit hours</td>
<td>12</td>
</tr>
</tbody>
</table>

It is strongly recommended that students see an advisor every term.

EARLY CHILDHOOD EDUCATION
Child Development Specialization Program Code 6319

Program Description
The Child Development Specialization Technical Certificate, offered at the North Campus, is part of the existing Associate of Science Degree in Early Childhood Education. The purpose of this program is to prepare individuals to assume administrative, educational, and care-giving responsibilities within child care facilities or to provide supplementary training for persons previously or currently employed in these occupations. This certificate can be taken as a stand-alone program or in conjunction with the AS degree in Early Childhood Education. For more information call 954-201-2273.

Related Programs:
- Early Childhood Education Associate in Science Major Code 2166
- Child Care Center Management Specialization Major Code 6316
- Infant/Toddler Specialization Major Code 6317
- Preschool Specialization Program Code 6318

Term 1
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD1338</td>
<td>Math &amp; Science for the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>CHD1320</td>
<td>Curriculum Planning For Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CHD1334</td>
<td>Children’s Literature &amp; Language Arts</td>
<td>3</td>
</tr>
<tr>
<td>CHD1331</td>
<td>Creativity for Young Children</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total term credit hours</td>
<td>12</td>
</tr>
</tbody>
</table>

Term 2
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>CHD1940</td>
<td>Practicum I: Observation and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>CHD2800</td>
<td>Admin and Mgmt. in E C Education</td>
<td>3</td>
</tr>
<tr>
<td>EEC1200</td>
<td>Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>DEP2002</td>
<td>Developmental PSY I: Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total term credit hours</td>
<td>12</td>
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</tbody>
</table>

Term 3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD2441</td>
<td>Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPC1024</td>
<td>Introduction to Speech Communications</td>
<td>3</td>
</tr>
<tr>
<td>EEC1603</td>
<td>Child Guidance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total term credit hours</td>
<td>12</td>
</tr>
</tbody>
</table>

It is strongly recommended that students see an advisor every term.
EMERGENCY MANAGEMENT
Emergency Management Associate in Science Major Code 2200 (2200E)

Program Description
The Emergency Management AS degree, offered through the BC Institute of Public Safety located at the Central Campus 954-201-6791, is designed for current Public Safety employees (Law Enforcement, Fire Service or Public Health) seeking to become effective Emergency Managers within their area of expertise. This program is also for those seeking entry-level positions in the area of Public Safety/ Emergency Management.

Related Programs
Emergency Management Technical Certificate Major Code 6303 (6303E)

Program Description
The Emergency Management vocational certificate, offered through the Institute of Public Safety located at the Central Campus, is designed for current Public Safety employees (Law Enforcement, Fire Service or Public Health) seeking career advancement by obtaining the knowledge and skills to become effective Emergency Managers within their area of expertise. This program is also appropriate for students seeking entry-level positions in the area of Public Safety / Emergency Management. Students who successfully complete the certificate program may use the credits earned toward the AS in Emergency Management degree.

Related Programs
Emergency Management Associate in Science Major Code 2200 (2200E)

General Education and Technical Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENC1102</td>
<td>Composition II or</td>
<td>3</td>
</tr>
<tr>
<td>ENC2210</td>
<td>Technical Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>SPC1024</td>
<td>Intro to Speech or</td>
<td>3</td>
</tr>
<tr>
<td>SPC1608</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>POS1122</td>
<td>State &amp; Local Government or</td>
<td>3</td>
</tr>
<tr>
<td>POS2841</td>
<td>National Government</td>
<td>3</td>
</tr>
<tr>
<td>PSY2012</td>
<td>Psychology or</td>
<td>3</td>
</tr>
<tr>
<td>CGS1060C*</td>
<td>Computer &amp; Internet Literacy or</td>
<td>3</td>
</tr>
<tr>
<td>GE Course</td>
<td>General Education Humanities - Recommended: PH 2600; Intro to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>GE Course</td>
<td>General Education Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>GE Course</td>
<td>General Education Sciences</td>
<td>3</td>
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<td>Total Credit Hours</td>
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<td>27</td>
</tr>
</tbody>
</table>

* General Education courses must be selected from the list of AS Degree courses found in the College Catalog/ posted online at www.broward.edu/ studentresources/advising/Pages/ged.aspx.

Emergency Management Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FES2010</td>
<td>Intro to Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>FFP1830</td>
<td>Intro to Hazards</td>
<td>3</td>
</tr>
<tr>
<td>FFP2841</td>
<td>Emergency Planning for Business &amp; Industry</td>
<td>3</td>
</tr>
<tr>
<td>MNA2545</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>MAN2021</td>
<td>Intro to Management or</td>
<td>3</td>
</tr>
<tr>
<td>PAD2002</td>
<td>Intro to Public Administration or</td>
<td>3</td>
</tr>
<tr>
<td>CEJ1300</td>
<td>Criminal Justice Administration or</td>
<td>3</td>
</tr>
<tr>
<td>FFP2710</td>
<td>Fire Department Supervision or</td>
<td>3</td>
</tr>
<tr>
<td>HIM5112</td>
<td>Healthcare Supervision &amp; Organization</td>
<td>3</td>
</tr>
<tr>
<td>MNS1000</td>
<td>Emergency Management Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total Emergency Management Credit Hours</td>
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<td>33</td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
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<td>60</td>
</tr>
</tbody>
</table>

+ General Education courses must be selected from the list of AS Degree courses found in the College Catalog/ posted online at www.broward.edu/ studentresources/advising/Pages/ged.aspx.

# Emergency Management Elective: any college-level, transferable course.

It is strongly recommended that students see an advisor every term.

EMERGENCY MANAGEMENT
Emergency Management Technical Certificate Major Code 6303 (6303E)

Program Description
The Emergency Management vocational certificate, offered through the Institute of Public Safety located at the Central Campus, is designed for current Public Safety employees (Law Enforcement, Fire Service or Public Health) seeking career advancement by obtaining the knowledge and skills to become effective Emergency Managers within their area of expertise. This program is also appropriate for students seeking entry-level positions in the area of Public Safety / Emergency Management. Students who successfully complete the certificate program may use the credits earned toward the AS in Emergency Management degree.

Related Programs
Emergency Management Associate in Science Major Code 2200 (2200E)

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FES2010</td>
<td>Intro to Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>FFP1830</td>
<td>Intro to Hazards</td>
<td>3</td>
</tr>
<tr>
<td>FFP2841</td>
<td>Hazard Planning &amp; Mitigation</td>
<td>3</td>
</tr>
<tr>
<td>FFP2840</td>
<td>Disaster Response &amp; Recovery</td>
<td>3</td>
</tr>
<tr>
<td>FFP2800</td>
<td>Emergency Management Public Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>DSC1002</td>
<td>Terrorism &amp; Domestic Security</td>
<td>3</td>
</tr>
<tr>
<td>FFP2801</td>
<td>Introduction to Command</td>
<td>3</td>
</tr>
<tr>
<td>FFP2841</td>
<td>Emergency Planning for Business &amp; Industry</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Hours</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

This certificate program is composed of 8 courses (24 credits total). The 8 courses do not have to be taken in any particular order. However, it is recommended that FES 2010 and FFP 1830 be the first two courses taken by the student.

It is strongly recommended that students see an advisor every term.
Program Description
Broward College has developed a six (6) semester program in Emergency Medical Services that contains three (3) milestones to meet the needs of the community. The Applied Technology Diploma for the EMT (milestone 1) and the Technical Certificate for the Paramedic (milestone 2) are included in the two-year Associate in Science Degree in Emergency Medical Services (milestone 3). Satisfactory completion of the EMT Technical Diploma will enable the student to take the Florida State EMT Examination. Satisfactory completion of the advanced courses in the Paramedic Technical Certificate Program will enable students to take the Florida State Paramedic and National Registry Examination. An Associate in Science degree in Emergency Medical Services can be earned by completion of six (6) general education courses (18 credit hours) and one (1) specialized EMS course. Students are encouraged to take one general education course per semester during the six (6) semesters in the program. This program is offered at Health Sciences, Central and North campuses.

This program is accredited by the Joint Review Committee on Education Programs for the EMT-Paramedic.

Entrance Requirements
This program has a limited number of seats available per year and students are selected based upon the criteria announced online at www.broward.edu/admissions/Pages/Health-Sciences-Admissions.aspx. Applicants should call 954-201-6920 or go to www.broward.edu/academics/programs/empt/Pages/default.aspx for additional information.

Related Programs
Emergency Medical Technician Applied Technology Diploma Major Code B005
Paramedic Technical Certificate Major Code 6208

General Education and Technical Courses:
EMS2633 Paramedic Science II
Cardio Respiratory Lecture* 3
EMS2641 Paramedic Science Hospital Clinical I* 2
EMS2631 Paramedic Science II Field Clinical* 3
EMS2634 Paramedic Science III Trauma Lecture* 3
EMS2635L Paramedic Science III Skills Lab* 1
EMS2636 Paramedic Science III Medical Lecture* 3
EMS2636L Paramedic Science III Skills Lab* 1
EMS2642 Paramedic Science Hospital Clinical 2
EMS2643 Paramedic Science III - Field Clinical 3
EMS2638 Paramedic Science IV Lecture* 3
EMS2639L Paramedic Science IV Skills Lab* 1
EMS2641 Paramedic Science IV Field Clinical* 2
EMS2616 Paramedic Science IV Field Internship* 4
EMS2601 Body Systems for the Paramedic* 3
EMS2631L Paramedic Science I, Lecture* 3
EMS2631L Paramedic Science I, Skills Lab* 1
EMS2650 Paramedic Science I, Field Clinical* 1
EMS2622 Paramedic Science II Lecture *(1) 3
EMS2620L Paramedic Science II Skills Lab* 1

* Requires a pre- or co-requisite. See course description online at www.broward.edu/advisingcounseling/advising/planning/ page18333.html
(1) Requires a pre- or co-requisite. See course description online at www.broward.edu/ass/ass/CourseDescDepartmentList.jsp.

Related Courses:
EMS1119 Emergency Medical Technician, Basic* 6
EMS1119L EMS Skills Lab* 1
EMS4411 Hospital Clinical* 2
EMS6421 Field Clinical* 2

Recommended Semester Hours 14

# Pre-requisite course for entry to the program.

Related Programs
Paramedic Technical Certificate Major Code 6208
Emergency Medical Services - Associate in Science Major Code 2160
Graduation Requirements for EMT-Applied Technology Diploma:
Completion of 11 semester hours with a grade of "C" or higher in all EMS courses listed below. Students are strongly encouraged to take one (1) general education course in addition to the EMS program courses.

EMS1119 Emergency Medical Technician, Basic* 6
EMS1119L EMS Skills Lab* 1
EMS4411 Hospital Clinical* 2
EMS6421 Field Clinical* 2

Total Semester Hours 11
General Education course** 3
Recommended Semester Hours 14

It is strongly recommended that students see an advisor every term.

Related Programs
Paramedic Technical Certificate Major Code 6208
Emergency Medical Services - Associate in Science Major Code 2160
Graduation Requirements for EMT-Associated Technology Diploma:
Completion of 11 semester hours with a grade of "C" or higher in all EMS courses listed below. Students are strongly encouraged to take one (1) general education course in addition to the EMS program courses.

EMS1119 Emergency Medical Technician, Basic* 6
EMS1119L EMS Skills Lab* 1
EMS4411 Hospital Clinical* 2
EMS6421 Field Clinical* 2

Total Semester Hours 11
General Education course** 3
Recommended Semester Hours 14

It is strongly recommended that students see an advisor every term.

Students who test into college preparatory courses must successfully complete all required college preparatory courses to qualify for graduation.

It is strongly recommended that students see an advisor every term.
Program Description
Broward College has developed a six (6) semester program in Emergency Medical Services that contains three (3) milestones to meet the needs of the community. The Applied Technology Diploma for the EMT (milestone 1) and the Technical Certificate for the Paramedic (milestone 2) are included in the two-year Associate in Science Degree in Emergency Medical Services (milestone 3). Satisfactory completion of the EMT Technical Diploma will enable the student to take the Florida State EMT Examination. Satisfactory completion of the advanced courses in the Paramedic Technical Certificate Program will enable students to take the Florida State Paramedic and National Registry Examination. An Associate in Science degree in Emergency Medical Services can be earned by completion of six (6) general education courses (18 credit hours) and one (1) specialized EMS course. Students are encouraged to take one general education course per semester during the six (6) semesters in the program. This program is offered at Health Sciences, Central and North campuses.

Program is accredited by the Joint Review Committee on Education Programs for the EMT-Paramedic.
Program is offered at the Central and North campuses.

Entrance Requirements
This program has a limited number of seats available per year and students are selected based upon the criteria announced online at www.broward.edu/admissions\Pages/Health-Sciences-Admissions.aspx.
Applicants should call 954-201-6920 or go to www.broward.edu/academics\programs\emt/Pages/default.aspx for additional information.

Related Programs
Emergency Medical Technician Applied Technology Diploma Major Code 1003
Emergency Medical Services - Associate in Science Major Code 2160

Requirements for the Paramedic Technical Certificate Program:
Completion of 18 semester hours with a grade of "C" or higher in all EMS courses listed below. Students are strongly encouraged to take one (1) general education course in addition to the EMS program courses.

Term I

EMS2610 Body Systems for the Paramedic 3
EMS2631 Paramedic Science I – Lecture 3
EMS2631L Paramedic Science I – Skills Lab 1
EMS2650 Respiratory Lecture 3
EMS2650L Respiratory Lab 1
EMS2651L Paramedic Science I, Field Clinical 1
Total Term Semester Hours 8

Term II

EMS2651 Paramedic Science II-Lecture 3
EMS2651L Paramedic Science II, Skills Lab 1
EMS2653 Respiratory Lecture 3
EMS2653L Respiratory Lab 1
EMS2654 Paramedic Science II, Field Clinical 3
Total Term Semester Hours 12

** Pre-requisite: Florida State EMT I certification
** Students are strongly encouraged to take one (1) general education course in addition to the EMS program courses.

Students must fulfill the College's computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

It is strongly recommended that students see an advisor every term.

Program Description
The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, medical, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction consisting of the three specializations: electronics, alternative energy, and biomedical systems with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, predation, testing, and product quality.

The 18 credit hour technical core has also been aligned with the Manufacturing Skills Standards Councils (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Production Technician Certification. The graduates of the Engineering Technology Program can transfer to universities offering the B.S. degree in Engineering Technology.

Related Programs
Biomedical Engineering Technology Advanced Technical Certificate Major Code 4628
Electronics Solar Technician Technical Certificate Major Code 6507

General Education
GE Course General Education Humanities 3
GE Course General Education Mathematics 3
GE Course General Education Social/Behavioral Science 3
ENC1101 Composition I 3
ETM1010C Measurement Instrumentation 3
PHY1001 Applied Physics 3
Total Semester Hours 18

Electronics
ETP2402C Introduction to Solar Photovoltaic Systems 3
ETP2410C Installation of Solar Photovoltaic Systems 3
ETP2542C Programmable Logic Controllers (L) 3
ETP2402C Programmed Control 3
ETP2542C Programmable Logic Controllers (L) 3
ETP2410C Installation of Solar Photovoltaic Systems 3
ETP2542C Programmable Logic Controllers (L) 3

Biomedical
EST2436C Biomedical Instrumentation 1 3
ETM1100C Measurement Instrumentation 3
ETM1100C Measurement Instrumentation 3
ETM1100C Measurement Instrumentation 3
Total Semester Hours 18

Professional Core
ETT1936C AC Circuits 3
ETT1936C AC Circuits 3
ETT1936C AC Circuits 3
ETT1936C AC Circuits 3
Total Program Semester Hours 60

** Students must fulfill the College's computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

Technical courses should be taken in sequence unless approved by the Department Head.

It is strongly recommended that students see an advisor every term.
ENGINEERING TECHNOLOGY

Program Description
The Alternative Energy Systems Specialist Technical Certificate, offered at the North Campus, is part of the existing Associate of Science Degree in Engineering Technology. The purpose of this program is to prepare students for occupations such as solar photovoltaic technicians, solar thermal installers, and electrical and electronic engineering technicians. This certificate can be taken as a stand-alone program or in conjunction with the AS degree in Engineering Technology. For more information call 954-201-2324.

Related Programs
Engineering Technology Associate in Science Major Code 2207
Electronics Aide Technical Certificate Major Code 6322
Biomedical Engineering Technology Advanced Technical Certificate Major Code 4268

Core Courses
EET1084C Introduction to Electronics 3
ETI1110C Introduction to Quality 3
ETI1701 Safety 3
ETS2542C Programmable Logic Controllers (L) * 3
ETP2402C Introduction to Solar Photovoltaic Systems 3
ETP2410C Installation of Solar Photovoltaic Systems * 3
Total Program Hours 18

* Requires a pre- or co-requisite or proper score on placement test. See course description online at www.broward.edu/zext/ext/CourseDescDepartmentList.jsp.

It is strongly recommended that students see an advisor every term.

ENGINEERING TECHNOLOGY
Electronics Aide Technical Certificate Major Code 6322

Program Description
The Electronics Aide Technical Certificate, offered at the North Campus, is part of the existing Associate of Science Degree in Engineering Technology. The purpose of this program is to prepare students for entry-level manufacturing and engineering technician position or to provide supplementary training for persons previously or currently employed in these occupations. This certificate can be taken as a stand-alone program or in conjunction with the AS degree in Engineering Technology. For more information call 954-201-2324.

Related Programs
Engineering Technology Associate in Science Major Code 2207
Biomedical Engineering Technology Advanced Technical Certificate Major Code 4268

Core Courses
EET1025C AC Circuits 3
EET1141C Linear Techniques I 3
ETI1015C DC Circuits * 3
ETS2542C Programmable Logic Controllers (L) * 3
Total Program Hours 12

* Requires a pre- or co-requisite or proper score on placement test. See course description online at www.broward.edu/zext/ext/CourseDescDepartmentList.jsp.

It is strongly recommended that students see an advisor every term.
ENGINEERING TECHNOLOGY
Biomedical Engineering Technology Advanced Technical Certificate Major Code 4268

Program Description
The Biomedical Engineering Technology Advanced Technical Certificate courses are offered to Associate in Applied Science Degree graduates of the Biomedical Engineering Technology Program. The Advanced Certificate will be awarded upon completion of the following 20 credit hours:

Required Courses
- EST2438C: Adv. Biomedical Instrumentation 3
- CNT2001: Local Area Networking 3
- CTS1133: PC Support-Operating Systems 3
- CET2132C: Microprocessors II 4
- EET2320C: Electronic Communications 3

Total Semester Hours: 19

* Requires a pre- or co-requisite or proper score on placement test. See course description online at www.broward.edu/zext/ext/CourseDescDepartmentList.jsp.

It is strongly recommended that students see an advisor every term.

ENVIRONMENTAL SCIENCE TECHNOLOGY
Environmental Science Technology Associate in Science Major Code 2182

Program Description
This program, offered at the A. Hugh Adams Central Campus, prepares students for employment in various positions such as environmental laboratory technicians, environmental samplers, environmental health inspectors, instrumentation technicians, pollution control technicians, groundwater contamination technicians and geology technicians.

Required Courses
- ENC1101: Composition I* 3
- CHM1025: Introduction to Chemistry 3
- CHM1025L: Introduction to Chemistry Lab 1
- BSC1005: General Biology 3
- BSC1005L: General Biology Lab 1
- SPC1024: Introduction to Speech Communications 3
- EVR2930: Environmental Science Seminar# 1

Total Term Semester Hours: 15

First Year, Term II
- ENC2210: Professional and Technical Writing* 3
- EVR1009: Environmental Science* 3
- ORH1523: Native Upland Plants 2
- ORH1524: Native Wetland Plants 2
- EVS2893C: Environmental Sampling and Analysis* 5

Total Term Semester Hours: 15

First Year Term III, Session II or III
- GE Course: General Education Mathematics+ 3
- Elective: Environmental Science Elective‡ 3

Total Term Semester Hours: 6

Second Year, Term I
- EVR1858: Environmental Regulations 3
- EVR2930: Environmental Science Seminar# 1
- MCB2010: Microbiology 3
- MCB2010L: Microbiology Lab 1
- GEO2257: Conservation of Natural Resources or other General Education Social Science course+ 3

Total Term Semester Hours: 14

Second Year Term II
- EVR2949: Co-op Internship 3
- GIS1040C: Introduction to Geographic Information Systems I 4
- PSC1121: Physical Science* or PHY1001: Applied Physics* 3
- PSC1121L: Physical Science Lab or PHY1001L: Applied Physics Lab* 1
- GEO2257: Conservation of Natural Resources or other General Education Social Science course+ 3

Total Term Semester Hours: 14

* General Education courses must be selected from the list of AS Degree courses found in the College Catalog/ posted online at www.broward.edu/studentresources/advising/Pages/gened.aspx.

* Requires a pre- or co-requisite. See course description online at www.broward.edu/zext/ext/CourseDescDepartmentList.jsp.

# Students are required to take this course twice.

‡ Environmental Science Elective: Students may consider the following recommended electives: GLY 1010, ZOO 2010, or ETD 1320. Students who are not computer literate are advised to take ETD 1320 prior to enrolling in GIS 1040C.

+ Students must fulfill the College’s computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

It is strongly recommended that students see an advisor every term.
ENVIRONMENTAL SCIENCE TECHNOLOGY
Geographic Information Systems Advanced Technical Certificate Major Code 4277

Related Programs
Environmental Science Technology Associate in Science Major Code 2182

Required Courses
GIS1042C Introduction to Geographic Information Systems II 3
GIS1030 Remote Sensing and Applications 3
GIS1047C Applications of Geographic Information Systems 3
Total Semester credits 9

It is strongly recommended that students see an advisor every term.

Pre-requisite: Associate in Science Degree in Environmental Science Technology or departmental approval of related degrees

It is strongly recommended that students see an advisor every term.

FIRE SCIENCE TECHNOLOGY
Associate in Science Major Code 2118

Program Description
The Associate in Science Degree in Fire Science Technology, located on A. Hugh Adams Central Campus, is designed for fire service or fire protection related professionals, to enhance technical competencies, and prepare them for career advancement through participation in appropriate courses of study. The program provides options for concentrated study including Arson Investigator, Fire Officer, and Municipal Fire Inspector specialties. Accelerated programs are offered in a series of required (3) credit courses, to prepare students for State Fire Officer I, Municipal Fire Inspector, or Arson Investigator certification. For additional information call 954-201-6791.

Related Program
Fire Science Management Technical Certificate Major Code 6313

Fire Science Core Courses
ENC1101 English Composition I* 3
GE Course General Education Humanities+ 3
POS2112 State and Local Government or POS2041 National Government 3
GE Course General Education Science+ 3
GE Course General Education Mathematics+ 3
Total Semester Hours 15

Fire Science Electives
FFP1505 Fire Prevention Practices 3
FFP2120 Fire Service Building Construction 3
FFP1810 Firefighting Tactics and Strategy 1 3
FFP1540 Private Fire Protection Systems 1 3
FFP2720 Company Officer 3
FFP1710 Fire Service Course Delivery 3
FFP2811 Firefighting Tactics & Strategy 2* 3
Elective Fire Science Elective# 9
Total Semester Hours 50
Total Program Credit Hours 60

Fire Science Core Courses
ENC1102 English Composition II or ENC2210 Technical Report Writing* 3
SPC1024 Introduction to Speech or SPC1608 Public Speaking 3
CGS1060C Computer and Internet Literacy** or any college-level transferable course+ 3
Elective any college-level transferable courses+ 6
Total Semester Hours 15

* Requires a pre or co-requisite. See course description online at www.broward.edu/zext/CourseDescDepartmentList.jsp.
** Students must fulfill the College's computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.
# The following courses satisfy Fire Science Elective requirements. Regardless of the number of FFP elective courses the student has completed, a maximum of nine (9) credits may be used toward the Fire Science degree:

FFP1000 Introduction to Fire Science 3
FFP2801 Introduction to Command 3
FFP2741 Fire Service Course Design 3
FFP2780 Fire Department Administration 3
FFP1510 Codes and Standards 2
FFP2111 Fire Chemistry 3
FFP2781 Fire Administration II 3
FFP2610 Origin and Cause 3
FFP2630 Latent Investigation 3
FFP2570 Legal Issues for Investigators 3
FFP2690 Fire Service Photography 3
FFP2521 Construction Documents & Plans Review 3
FFP2401 Hazardous Materials I 3
FFP2002 Hazardous Materials II 3
FFP2541 Private Fire Protection Systems II 3
FFP1793 Fire/Life Safety Educator 3
FFP2706 Public Information Officer 3
FFP2770 Ethical & legal Issues in Fire Service 3

It is strongly recommended that students see an advisor every term.

Pre-requisite: Associate in Science Degree in Environmental Science Technology or departmental approval of related degrees

It is strongly recommended that students see an advisor every term.
FIRE SCIENCE TECHNOLOGY
Fire Science Management Technical Certificate Major Code 6313

Program Description
The Fire Science Management Technical Certificate, offered on A. Hugh Adams Central Campus, is part of the existing Associate of Science Degree in Fire Science Technology. This certificate, designed for fire service or fire protection related professionals, can be taken as a stand-alone program or in conjunction with the Fire Science Technology AS degree.

For additional information call 954-201-6791.

Related Program
Fire Science Technology Associate in Science Major Code 2118

Technical Courses
- FFP1540 Private Fire Protection Systems I 3
- FFP1810 Firefighting Tactics & Strategy 3
- FFP1570 Company Officer 3
- FFP1505 Fire Prevention Practices 3
- FFP2120 Fire Service Building Construction 3

Total Program Hours 15

It is strongly recommended that students see an advisor every term.

GLOBAL TRADE AND LOGISTICS
Global Trade and Logistics Associate in Science Major Code 2205

Program Description
The Global Trade and Logistics Associate Science Degree prepares students for initial employment with the basic and cross-functional skills necessary for working in areas such as planning, acquisition, flow and distribution of goods and services. Occupations in this industry include: Integrated Logistics Planner, Purchasing Analyst, Cargo Scheduler, International Logistics Specialist, Quality Manager, Claims Associate, Inventory Control Manager, Rail Fleet Management Specialist, Contract Specialist, Logistics Analyst, Sourcing Agent, Customer Service Manager, Materials Analyst, Supply Chain Engineer, Director of Inventory Management, Materials Manager, Supply Program Manager, Dispatcher, Operations Research Manager, Supply Technician, Distribution Area Manager, Operations Supervisor, Traffic Manager, Distribution Center Operations Manager, Order Fulfillment Supervisor, Transportation Coordinator, Distribution Planning Analyst, Packaging Supervisor, Transportation Manager, Expedition Cargo Sales, Plant Receiving/Shipping Supervisor, Transportation Solutions Director, Facilities Supervisor, Procurement Clerk/Technician, Warehouse Operations Supervisor, Forcarcer Product Manager/Tracing and Tracking, Warehouse Shift Supervisor, Import/Export Analyst, Purchasing Agent.

Related Programs
Logistics & Transportation Specialist Technical Certificate Major Code 6308

General Education Requirements:
- SPC1024 Intro to Speech Communication 3
- ENC1101 Composition I 3
- GEA2000 World Geography 3
- ECO2013 Macroeconomics 3
- EVR1009 Environmental Science 3
- GE Course General Education Mathematics 3
- PHI2600  Introduction to Ethics 3

Total General Education Credits: 21

Business Core Requirements:
- CGS1060C Computer and Internet Literacy** or CGS1540C Database Management. 3
- ACG2001 Principles of Accounting I 3
- ACG2011 Principles of Accounting II * 3
- ACG2071 Managerial Accounting * 3
- BUS241 Business Law I 3
- CGS1510C Electronic Spreadsheet 3
- GEB1101 Introduction to Business 3
- ECO2023 Principles of Microeconomics 3
- MAN2201 Introduction to Management 3
- MAR2141 International Marketing 3
- QMB2100 Quantitative Methods of Business 3

Total Business Core Credits: 33

Transportation Core Credits
- TRA1010 Transportation and Logistics 3
- TRA1154 Supply Chain Management 3
- TRA2151 Purchasing for Logistics Managers 3
- TRA2901 Seminar in Global Trade 1

Total Transportation Credits: 10

Total Program Credits 64

* General Education courses must be selected from the list of AS Degree courses found in the College Catalog/posted on line at www.broward.edu/studentresources/advising/Pages/gened.aspx.

** CGS1060C must be completed within the first 15 hours of Broward College coursework or proper score on placement test. Students electing to "test-out" of CGS1060C are required to take CGS1540C Database Management.

It is strongly recommended that students see an advisor every term.
GLOBAL TRADE AND LOGISTICS
Logistics & Transportation Specialist Technical Certificate Major Code 6508

Program Description
The Logistics & Transportation Specialist Technical Certificate prepares students for initial employment with an occupational title or to provide supplemental training for persons previously or currently employed in these occupations with cross-functional skills necessary for planning, acquisition, flow and distribution of goods and services. This certificate prepares students for occupations as: Integrated Logistics Planner, Purchasing Agent, Cargo Scheduler, International Logistics Specialist, Rail Fleet Management Specialist, Contract specialist, Logistics Analyst, Sourcing agent, Customer Distribution Area Manager, Operations Supervisor, Traffic Manager, Distribution Center Operations Manager, Order Fulfillment Supervisor, Transportation Coordinator, Distribution Planning Analyst, Packaging Supervisor, Transportation Manager, Expedited Cargo Sales, Plant Receiving/Shipping supervisor, Transportation Solutions Director, Facilities Supervisor, Procurement Clerk/Technician, Warehouse Operations Supervisor, Forecaster Product Manager-Tracing and Tracking, Warehouse Shift Supervisor, Import/Export Analyst, Purchasing Agent.

Program Description
The Graphics Design Program, offered at the Willie Holcombe Center (Downtown), is designed to prepare students for the rapidly changing computer driven graphics design industry. Primary job titles include, Web Designer, Graphic Artist, Publication Designer, Illustrator, Packaging Designer, and Advertising Creative.

Related Programs
Global Trade and Logistics Associate in Science Major Code 2205

Required Courses
BUL2241 Business Law I 3
MAN2021 Introduction to Management 3
QMB2100 Quantitative Methods of Business 3
TRA1010 Transportation and Logistics 3
TRA1154 Supply Chain Management 3
TRA2151 Purchasing for Logistics Managers 3
Total Credits 18

It is strongly recommended that students see an advisor every term.

GRAPHIC DESIGN
Graphic Design AS Degree – Major Code 2192

Program Description
The Graphics Design Program, offered at the Willie Holcombe Center (Downtown), is designed to prepare students for the rapidly changing computer driven graphics design industry. Primary job titles include, Web Designer, Graphic Artist, Publication Designer, Illustrator, Packaging Designer, and Advertising Creative.

Related Programs
Graphic Design Production Certificate Major Code 6289
Graphic Design Support Certificate Major Code 6290

First Year Term I
ART1201C 2-D Design 3
ART1300C Drawing 3
ART1350C 3D Design 3
GRA1801C Digital Photography 3
GE Course General Education Mathematics+ 3
ENC1101 Composition I 3
Total Term Semester Credits 15

First Year Term II (Winter)
ART2121C Design 2 3
ART2151C Illustration 2 3
GRA1802C Digital Photography 3
GRA2121C Publication Design 3
GRA2151C Illustration Design 1 3
GRA2180C Web Design 1 * 3
Total Term Semester Credits 15

Second Year Term I
ART2121C Design 2 3
GRA2121C Publication Design 3
GRA2151C Illustration Design 1 3
GRA2157C Illustration Design 2 * 3
GRA2171C Branding & Ad Design 3
GRA2175C Web Design 2 * 3
Total Term Semester Credits 15

Second Year Term II
ART2121C Design 2 3
GRA2121C Publication Design 3
GRA2151C Illustration Design 2 * 3
GRA2157C Illustration Design 2 3
GRA2180C Web Design 2 * 3
Total Term Semester Credits 15

Term III (Summer)
SPC1024 Intro to Speech Communication or SPC1608 Introduction to Public Speaking 3
PSY2012 General Psychology 3
Total Term Semester Credits 6

Second Year Term III
GRA2180C Design Production * 3
GRA2185C Design Production * 3
GRA2180C Design Production 3
GRA2185C Design Production 3
Total Term Semester Credits 12

Third Year Term I
GRA1802C Digital Photography 3
GRA2121C Publication Design 3
GRA2151C Illustration Design 2 * 3
GRA2157C Illustration Design 2 3
GRA2180C Web Design 2 * 3
Total Term Semester Credits 15

Third Year Term II (Summer)
GRA2940C Graphic Design Internship * 1
Total Term Semester Credits 1
Total Programs Credits 64

Completion of the Graphics Technology Program will satisfy the College’s computer literacy requirement.

* Requires a pre- or co-requisite. See course description in this catalog or online at www.broward.edu/zext/ext/CourseDescDepartmentList.jsp.
+ General Education courses must be selected from the list of AS Degree courses found in the College Catalog/posted online at www.broward.edu/studentresources/advising/Pages/gened.aspx.

It is strongly recommended that students see an advisor every term.
It is strongly recommended that students see an advisor every term.

* Requires a pre- or co-requisite. See course description online at www.broward.edu/zext/ext/CourseDescDepartmentList.jsp.

It is strongly recommended that students see an advisor every term.

* Requires a pre- or co-requisite. See course description online at www.broward.edu/zext/ext/CourseDescDepartmentList.jsp.
HOSPITALITY AND TOURISM MANAGEMENT
Hospitality and Tourism Management Associate in Science Degree Major Code 2121

Program Description
The Hospitality and Tourism Management programs, offered at A. Hugh Adams Central Campus, emphasize the development of management skills needed in the hospitality industry. The general education requirements of the program develop students’ abilities in communications and interpersonal skills. This program is only offered at A. Hugh Adams Central Campus. For more information, please contact the Program Manager at 954-201-6710.

Related Programs
Food & Beverages Management Certificate Major Code 6301
Guest Services Specialist Certificate Major Code 6300 (6300E)
Rooms Division Management Certificate Major Code 6302

General Education Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>Composition I*</td>
<td>3</td>
</tr>
<tr>
<td>ENC1102</td>
<td>Composition II*</td>
<td>3</td>
</tr>
<tr>
<td>SPC1608</td>
<td>Public Speaking or Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>ECO2013</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GE Course</td>
<td>General Education Humanities*</td>
<td>3</td>
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<tr>
<td>GE Course</td>
<td>General Education Science*</td>
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<tr>
<td>GE Course</td>
<td>General Education Science Lab*</td>
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<tr>
<td>GE Course</td>
<td>General Education Mathematics*</td>
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Total General Education Hours 22

Major Courses

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<th>Hours</th>
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<tbody>
<tr>
<td>GEB 1011</td>
<td>Introduction to Business</td>
<td>3</td>
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<tr>
<td>HFT 2250</td>
<td>Hotel Management</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2023</td>
<td>Microeconomics</td>
<td>3</td>
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<tr>
<td>HFT 2410</td>
<td>Front Office Systems/Procedures</td>
<td>3</td>
</tr>
<tr>
<td>HFT 1050</td>
<td>Introduction to Tourism Industries</td>
<td>3</td>
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<tr>
<td>CGS 1060C</td>
<td>Computer and Internet Literacy**</td>
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<td>Elective</td>
<td>Business Elective#</td>
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Total General Education Hours 24

Complete 1 of the following courses:

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>HFT 2600</td>
<td>Hospitality Law</td>
<td>3</td>
</tr>
<tr>
<td>BUL 2241</td>
<td>Business Law 1</td>
<td>3</td>
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Total Hours 5

Complete 2 of the following courses:

<table>
<thead>
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<tr>
<td>MAN 2021</td>
<td>Introduction to Management</td>
<td>3</td>
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<tr>
<td>MNA 2545</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>HFT 2228</td>
<td>Organization and Personnel Management</td>
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</tr>
<tr>
<td>GE Course</td>
<td>General Education Mathematics*</td>
<td>3</td>
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Total Hours 6

Complete 1 of the following courses:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>HFT 2260</td>
<td>Financial Management</td>
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<tr>
<td>ACG 2891</td>
<td>Introduction to Accounting</td>
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Total Hours 3

Complete 2 of the following courses:

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<th>Course Title</th>
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<tbody>
<tr>
<td>HFT 2500</td>
<td>Marketing (Hospitality)</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3511</td>
<td>Convention and Group Business</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Any college-level course with a MKA prefix</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Any college-level course with a MAR prefix</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 6

Total Program Semester Hours 64

* General Education courses must be selected from the list of AS Degree courses found in the College Catalog/pasted on-line at www.broward.edu/advising/counseling/advising/edplanning/page18233.html

** CGS1060C must be completed within the first 15 hours of Broward College coursework.

It is strongly recommended that students see an advisor every term.

HOSPITALITY AND TOURISM MANAGEMENT
Food & Beverages Management Certificate Major Code 6301

Program Description
The Food & Beverages Management Certificate is designed to qualify successful completors for upwardly mobile positions in the food & beverages industry.

Related Programs
Hospitality and Tourism Management Associate in Science Degree Major Code 2121
Guest Services Specialist Certificate Major Code 6300 (6300E)
Rooms Division Management Certificate Major Code 6302

First Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HFT 2250</td>
<td>Hotel Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 2410</td>
<td>Front Office Systems/Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MNA 1161</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>GST 2355</td>
<td>Communications in the Workplace</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Term Semester Hours 12

First Year Term II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1060C</td>
<td>Computer and Internet Literacy*</td>
<td>3</td>
</tr>
<tr>
<td>HFT 2220</td>
<td>Supervisory Development</td>
<td>3</td>
</tr>
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</table>

Total Hours 6

First Year Term III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HFT 2500</td>
<td>Marketing (Hospitality)</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3511</td>
<td>Convention and Group Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 6

Total Certificate Semester Hours 30

* CGS1060C must be completed within the first 15 hours of Broward College coursework.

It is strongly recommended that students see an advisor every term.

First Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HFT 2250</td>
<td>Hotel Management</td>
<td>3</td>
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<tr>
<td>HFT 2410</td>
<td>Front Office Systems/Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MNA 1161</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>GST 2355</td>
<td>Communications in the Workplace</td>
<td>3</td>
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</table>

Total Term Semester Hours 12

First Year Term II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>HFT 2220</td>
<td>Supervisory Development</td>
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</tbody>
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Total Hours 6

First Year Term III

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<tr>
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<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
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<tr>
<td>HFT 3511</td>
<td>Convention and Group Business</td>
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Total Hours 6

Total Program Semester Hours 64

* General Education courses must be selected from the list of AS Degree courses found in the College Catalog/pasted on-line at www.broward.edu/advising/counseling/advising/edplanning/page18233.html

** CGS1060C must be completed within the first 15 hours of Broward College coursework.

# Business Elective: Any college-level course with any of the following prefixes: ACG, BUL, ECO, FIN, GEB, HFT, MAN, MAR, MKA, or MNA prefixed course.

It is strongly recommended that students see an advisor every term.
**HOSPITALITY AND TOURISM MANAGEMENT**

**Guest Services Specialist Certificate Major Code 6300 (6300E)**

Program Description
The Guest Services Specialist Certificate is designed to qualify successful completers for upwardly mobile positions in the lodging industry.

Related Programs
Hospitality and Tourism Management Associate in Science Degree Major Code 2121
Food & Beverages Management Certificate Major Code 6301
Rooms Division Management Certificate Major Code 6302

First Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Supervisory Development</td>
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<tr>
<td>MTB1103</td>
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First Year Term II

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>HFT2250</td>
<td>Hotel Management</td>
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</tr>
<tr>
<td>HFT2410</td>
<td>Front Office Systems/Procedures</td>
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First Year Term III

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<thead>
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<th>Course Title</th>
<th>Hours</th>
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<td>HFT2220</td>
<td>Organization and Personnel Management</td>
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</table>

Total Certificate Semester Hours 15

It is strongly recommended that students see an advisor every term.

**HOSPITALITY AND TOURISM MANAGEMENT**

**Rooms Division Management Certificate Major Code 6302**

Program Description
The Rooms Division Management Certificate is designed to qualify successful completers for upwardly mobile positions in the lodging industry.

Related Programs
Hospitality and Tourism Management Associate in Science Degree Major Code 2121
Food & Beverages Management Certificate Major Code 6301
Guest Services Specialist Certificate Major Code 6500 (6500E)

First Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HFT2120</td>
<td>Supervisory Development</td>
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<tr>
<td>HFT1050</td>
<td>Introduction to Tourism Industry</td>
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<tr>
<td>HFT2600</td>
<td>Hospitality Law</td>
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<tr>
<td>MTB1103</td>
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First Year Term II

<table>
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<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT2250</td>
<td>Hotel Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT2410</td>
<td>Front Office Systems/Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MNA1161</td>
<td>Principles of Supervision</td>
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</tr>
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<td>OST2335</td>
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First Year Term III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT2220</td>
<td>Organization and Personnel Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT2500</td>
<td>Hospitality Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
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<td>6</td>
</tr>
</tbody>
</table>

Total Certificate Semester Hours 30

It is strongly recommended that students see an advisor every term.
INTERNET SERVICES TECHNOLOGY
Internet Services Technology Associate in Science Major Code 2196

Program Description
The Internet Services Technology Associate in Science degree, offered at the A. Hugh Adams Central Campus, prepares students for employment opportunities in website development and design. The program focuses on the latest web technologies and the practical skills to apply those technologies.

Related Programs
Web Development Specialist Technical Certificate Major Code 6285

<table>
<thead>
<tr>
<th>First Year, Term I</th>
<th>CTS1800C</th>
<th>Adobe Dreamweaver</th>
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</thead>
<tbody>
<tr>
<td>CTS1801C</td>
<td>Adobe Flash</td>
<td>2</td>
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</tr>
<tr>
<td>CTS1802C</td>
<td>Cascading Style Sheets</td>
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<td></td>
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<tr>
<td>ENC1102</td>
<td>Composition II</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>ENC2210</td>
<td>Professional and Technical Writing</td>
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<td>Total Term Semester Hours</td>
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<td></td>
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<table>
<thead>
<tr>
<th>First Year, Term II</th>
<th>CTS2854</th>
<th>CIW E-Commerce Strategies and Practices I</th>
<th>2</th>
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</thead>
<tbody>
<tr>
<td>CTS2855C</td>
<td>CIW E-Commerce Strategies and Practices II</td>
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<tr>
<td>Total Term Semester Hours</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Second Year, Term I</th>
<th>CTS1212C</th>
<th>Adobe Photoshop</th>
<th>3</th>
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</thead>
<tbody>
<tr>
<td>CTS2852C</td>
<td>Client-side Scripting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Course</td>
<td>General Education Behavioral/ Social Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year, Term II</th>
<th>CTS1313C</th>
<th>Project Management</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS2857C</td>
<td>Server-side Scripting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Course</td>
<td>General Education Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Course</td>
<td>General Education Science</td>
<td>3</td>
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<tr>
<td>Total Program Semester Hours</td>
<td>63</td>
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<td></td>
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</table>

1 Prerequisite – CGS1060C (with a grade of C or higher) or Placement
2 Prerequisite – MAT0028 or higher
3 Prerequisite – MAT1033 or higher; Pre-/Co-requisite – CIS1000C
4 Prerequisite – ENC1102
5 Prerequisite – CTS2854 (with a grade of C or higher)
6 Prerequisite – CTS1800C and (CTS1851C or COP1334C) (each with a grade of C or higher)
7 It is strongly recommended that students see an advisor every term.

INTERNET SERVICES TECHNOLOGY
Web Development Specialist Technical Certificate Major Code 6285

Program Description
The Web Development Specialist certificate program, offered at the A. Hugh Adams Central Campus, prepares students for employment opportunities in website design. The program's practical skills approach emphasizes the latest web design technologies.

Required Courses
<table>
<thead>
<tr>
<th>First Year, Term I</th>
<th>ART1201C</th>
<th>2D Design</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS1800C</td>
<td>Certified Internet Webmaster Foundations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENC1101</td>
<td>Composition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAC1105</td>
<td>College Algebra</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
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<td></td>
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<table>
<thead>
<tr>
<th>Second Year, Term II</th>
<th>CTS2854</th>
<th>CIW E-Commerce Strategies and Practices I</th>
<th>2</th>
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</thead>
<tbody>
<tr>
<td>CTS2855C</td>
<td>CIW E-Commerce Strategies and Practices II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CIS1513C</td>
<td>Project Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENC1101</td>
<td>Composition</td>
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<tr>
<td>Total Program Semester Hours</td>
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<td></td>
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</tbody>
</table>

1 Prerequisite – CGS1060C (with a grade of C or higher) or Placement
2 Prerequisite – CTS1851C (with a grade of C or higher)
3 Prerequisite – CTS2854 (with a grade of C or higher)
4 Computer science Elective: CGS1060C, ART2205, or any 1000 or 2000-level course with a CIS, COP, or CTS prefix

It is strongly recommended that students see an advisor every term.
LEGAL ASSISTING (Paralegal Studies)
Associate in Science Major Code 2172

Program Description
The Legal Assisting (Paralegal Studies) Associate in Science Degree, offered at the South and North Campuses, is a program designed for students seeking a career in a law-related field as a paraprofessional. This program is approved by the American Bar Association (ABA). Upon successful completion of this program, a student will be able to work under the supervision of an attorney and perform many vital functions as a legal assistant (paralegal). Legal Assistants may be responsible for interviewing, investigation, research, document preparation, and other tasks. They cannot, however, engage in the actual practice of law by doing such activities as giving legal advice, setting fees, negotiating, or representing clients in court.

Legal assistants work in law firms, legal departments of major corporations, government agencies (federal, state and local), real estate departments of large businesses, trust departments of banks, brokerage houses, and insurance companies.

General Provisions
Broward College’s Legal Assisting Program honors credits for courses taken at other institutions that: are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education, participate in the Florida statewide course numbering system and, are judged by the appropriate common course designation and numbering system faculty task forces to be academically equivalent to legal specialty courses offered at Broward College. All other legal specialty courses that are completed and transcripted from either an accredited institution or an ABA-approved program will be evaluated by the Program Manager for specific course equivalencies and how accepted credit will be applied toward specific degree requirements. No student shall be awarded credit for legal specialty courses by exam or experiential learning.

For additional information, contact the Program Manager at Judson A. Samuels South Campus, 954-201-8930 or the Business Administration office at Judson A. Samuels South Campus 954-201-8933 or the Business Administration office at North Campus, 954-201-2360.

Program Graduation Requirements
• Meet BC’s graduation requirements as listed in the Academic Programs and Graduation Requirements section of the College Catalog.
• Completion of 64 semester credit hours curriculum plan listed below with a degree GPA of 2.0 or higher.
• Complete all courses with a grade of “C” or higher.
• At least 25% of the total credits for the Associate in Science degree in Legal Assisting must be earned at Broward College, of which at least 12 credit hours must comprise Broward College legal specialty courses.

First Year Term I
ENC1101 Composition I * 3
CGS1060C Computer and Internet Literacy ** or
OST2764 Info/Word Processing# 3
BUL2241 Business Law I 3
PLA1003 Introduction to Legal Assisting * 3
PLA1104 Law Library * 3
Total Term Semester Hours 15

First Year Term II
PLA1303 Criminal Litigation * 3
PLA1435 Corporations * 3
PLA2466 Debtor/Creditor Relations * 3
PLA1201 Civil Litigation * 3
PLA2114 Legal Writing and Drafting * 3
Total Term Semester Hours 15

First YearTerm III, Session II and/or Session III
GE Course General Education Humanities+ 3
GEB2430 Business Ethics 1
Total Term Semester Hours 4

Second Year Term I
PLA1841 Immigration Law * 3
GE Course General Education Mathematics+ 3
PLA2930 Selected Topics in Paralegal Studies* 3
PLA2762C Paralegal Office Systems* 3
PLA2940 Legal Assisting Practicum* 3
Total Term Semester Hours 15

Second Year Term II
SPC1608 Public Speaking 3
PLA1600 Probate Practice * 3
PLA2908 Domestic Relation Law * 3
GE Course General Education Science+ 3
Elective Legal Assisting Elective (1) 3
Total Term Semester Hours 15
Total Program Semester Hours 64

* Requires a pre- or co-requisite. See course description in this catalog or online at www.broward.edu/next/ext/ CourseDesc/DepartmentList.jsp
** CGS1060C must be completed within the first 15 hours of Broward College coursework.
+ General Education courses must be selected from the list of AS Degree courses found in the College Catalog/posted online at www.broward.edu/ studentresources/advising/Pages/gened.aspx
# OST2764C, Info/Word Processing Applications is not transferable to A.A. Degree.

It is strongly recommended that students see an advisor every term.

Continued on next page
Program Description
The Marine Engineering Management degree is designed to prepare students interested in a career in the large yacht maintenance, repair and retrofit industry. Broward County is the world leader in the yacht industry and is in high demand of qualified technicians to work on yachts with diesel engines and sophisticated sustainable systems. Completers of the program may be employed in boat yards working on multi-million dollar vessels and the latest technology in marine equipment. The lifestyle may also include being part of the on-board crew and traveling around the world. Career advancement in management is a probable progression in the field.

For additional information about the programs listed above, contact the Marine Department at 954-201-8616 for more information.

Related Programs
Marine Technology – Technical Certificate Major Code 6306

Technical Course Requirements
MTE1004C Intro to Marine Technology 3
MTE2900C Marine Electronics 3
MTE1018C Rigging & Make Ready 3
MTE1040C Marine Diesel 1 3
MTE2041C Marine Diesel 2 3
MTE1542C AC & Refrigeration Systems 3
MTE2241C Marine Aux Systems 3
MTE1167C Marine Fuel Systems, Diesel and Gas 3
MTE2354C Inboard/Outboard Saildrive 3
MTE1322C Advanced Marine Composites 3
MTE2402C Advanced Electricity 3
MTE2949 Marine Internship Co-op 2

Academic Core Courses
ENC1101 Composition I 3
MNA1161 Intro to Customer Service 3
SPC1024 Intro to Speech or SPC1608 Intro to Public Speaking 3
CHM1025 Intro to Chemistry with CHM1025L or PHY1001 Applied Physics with PHY1001L 4
GE Course General Education Humanities+ 3
MNA2246 Principles of Supervision 3
MAC1105 College Algebra 3
MAN2021 Intro to Management 3
GE Course General Education Social & Behavioral Science+ 3

Total Semester Hours 66

+ General Education courses must be selected from the list of AS Degree courses found in the College Catalog/posted on line at www.broward.edu/studentresources/advising/Pages/gened.aspx

Note: Students must fulfill the College's computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

It is strongly recommended that students see an advisor every term.
MARKETING MANAGEMENT
Marketing Management Associate in Science Major Code 2126

Program Description
The Associate in Science degree in Marketing Management, offered at all BC locations, emphasizes the development of management and leadership skills needed in marketing occupations such as advertising, selling, entrepreneurship, and international business. This program may enable students to transfer to senior institutions that offer a bachelor's degree in marketing.

Related Programs
Marketing Operations Technical Certificate Major Code 6240

General Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ENCI101</td>
<td>Composition I*</td>
<td>4</td>
</tr>
<tr>
<td>GE Course</td>
<td>General Education Humanities</td>
<td>3</td>
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<tr>
<td>ECO2001</td>
<td>Principles of Macroeconomics</td>
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<td>GE Course</td>
<td>General Education Mathematics</td>
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<td>General Education Science</td>
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<tr>
<td>SPC1608</td>
<td>Public Speaking or</td>
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<tr>
<td>SPC1924</td>
<td>Introduction to Speech</td>
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Total Semester Hours 18

Specialized Courses

<table>
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<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACG2001</td>
<td>Principles of Accounting I</td>
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</tr>
<tr>
<td>CGS1060C</td>
<td>Computer and Internet Literacy**</td>
<td>3</td>
</tr>
<tr>
<td>MKA2930</td>
<td>Seminar I: Marketing in Perspective</td>
<td>3</td>
</tr>
<tr>
<td>GEB1011</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>GEB2121</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>OIT2355</td>
<td>Communications in the Workforce</td>
<td>3</td>
</tr>
<tr>
<td>MNA1161</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>MKA2942</td>
<td>Retailing</td>
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<tr>
<td>MKA1511</td>
<td>Advertising</td>
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<tr>
<td>MAR1011</td>
<td>Principles of Marketing</td>
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<tr>
<td>MKA1011</td>
<td>Salesmanship</td>
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<td>Business Elective</td>
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Total Semester Hours 46

Total Program Semester Hours 64

Business Electives are satisfied by taking three (3) of the following courses:

<table>
<thead>
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<th>Course Name</th>
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<tbody>
<tr>
<td>MKA2930</td>
<td>Seminar II: Research in Marketing</td>
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</tr>
<tr>
<td>MKA2942</td>
<td>Co-Op Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>MNA1821C</td>
<td>Introduction to E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>MTA1101</td>
<td>Business Mathematics</td>
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</tr>
</tbody>
</table>

It is strongly recommended that students see an advisor every term.

MARKETING MANAGEMENT
Marketing Management Associate in Science Major Code 2126

BUSINESS ADMINISTRATION
BUSINESS MANAGEMENT CERTIFICATES
Customer Service Specialization Technical Certificate Major Code 62672

Program Description
The Customer Service Specialization Technical Certificate, offered at North, A. Hugh Adams Central, and Judith A. Samuels South Campuses, is designed to prepare students for immediate employment or advancement in customer service. The courses include materials that teach theory, develop skills and address practical applications for such employment. This certificate is designed to allow the student to participate in numerous activities that lead to strong employable skills. The courses in the certificate can also be applied toward an Associate in Science degree in Business Administration.

Related Programs
Business Administration Associate in Science Major Code 2119 (2119E)
Business Management Technical Certificate Major Code 62671 (6267E)◊
Sports Management Specialization Technical Certificate Major Code 62673◊
Business Specialist Technical Certificate Major Code 6288 (6288E)◊
Entrepreneurship Technical Certificate Major Code 62674◊

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tr>
<td>MNA1161</td>
<td>Introduction to Customer Service</td>
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<tr>
<td>MTB1103</td>
<td>Business Mathematics</td>
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<tr>
<td>CGS1060C</td>
<td>Computer and Internet Literacy**</td>
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<td>OIT2355</td>
<td>Communications in the Workforce</td>
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<tr>
<td>MNA1134</td>
<td>Contact Center Operations</td>
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<tr>
<td>GEB1011</td>
<td>Introduction to Business</td>
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<tr>
<td>GEB2949</td>
<td>Co-Op-Specialization Customer Service</td>
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<td>ACG2001</td>
<td>Principles of Accounting I</td>
<td>3</td>
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<tr>
<td>BUL2241</td>
<td>Business Law I</td>
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<tr>
<td>ECO2040</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MNA1134</td>
<td>Contact Center Operations</td>
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</tr>
<tr>
<td>MNA1230</td>
<td>Principles of Supervision</td>
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</tr>
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</table>

Total Certificate Semester Hours 24

It is strongly recommended that students see an advisor every term.
MARKETING MANAGEMENT
Marketing Operations Technical Certificate Major Code 6240

Related Programs
Marketing Management Associate in Science Major Code 2126

Specialized Courses
MAR1011 Principles of Marketing 3
MKA1021 Salesmanship 3
MKA1930 Seminar I: Marketing in Perspective 3
MNA1821C Introduction to E-Commerce 3
GEB1011 Introduction to Business 3
OST2335 Communications in the Workforce 3
MKA1511 Advertising 3
MRA241 International Marketing 3
MNA1161 Introduction to Customer Service 3
MKA2042 Retailing+ or GEB2112 Entrepreneurship# 3

Total Certificate Semester Hours 30

* Requires a pre-requisite. See course description online at www.broward.edu/zext/ext/CourseDescDepartmentList.jsp.
+ Offered once per year at North Campus only.
# Offered at A. Hugh Adams Central Campus and North Campus.

It is strongly recommended that students see an advisor every term.

MARKETING MANAGEMENT
Entrepreneurship Technical Certificate Major Code 6311

Program Description
The purpose of this program is to teach students the fundamentals of starting and operating a business venture while presenting entrepreneurship as a viable career option. Coursework covers opportunity recognition, business planning, cash flow and financial management, market research, e-commerce and how to understand and work with an accounting system.

Related Programs
Marketing Management Associate in Science Major Code 2126
Business Administration Associate in Science Major Code 2119 (2119E)

AGC2001 Principles of Accounting I 3
OST2335 Communications in The Workforce 3
GEB2112 Entrepreneurship 3
MAR1011 Principles of Marketing 3

Total credit hours 12

It is strongly recommended that students see an advisor every term.

MASSAGE THERAPY
Vocational Certificate Major Code 5281

Program Description
The Massage Therapy Program is one of over twenty (20) health career programs offered at the Center for Health Science Education of Broward College, North Campus. The program was approved by the Florida Board of Massage to grant Vocational Certificates allowing our graduates to sit for the licensing examination; and upon achieving a passing score, apply to the Board for licensure. Our program is dedicated to developing therapists who are quality-minded and who will ultimately make unique contributions to the field of massage therapy.

The Massage Therapist is a skilled professional who administers massage for compensation to patients/clients directly or by physician’s prescription. "Massage" means the manipulation of the soft tissues of the human body with the hand, face, arm, or elbow, whether or not such manipulation is aided by hydrotherapy, including colonic irrigation, or thermal therapy; any electrical or mechanical devise; or the application to the human body of a chemical or herbal preparation.

[Florida State Statutes Chapter 480.033(3)]

For application information please call advisement at 954-201-2305 to make an appointment with our advisor.
For specific program information please call the Program Manager at 954 201-2074.
Please see our web site for more information:  www.broward.edu/academics/programs/massage/Pages/default.aspx

Entrance Requirements
• Criteria for the Vocational Certificate in Massage Therapy:
  • Apply and meet requirements for admission to Broward College
  • Apply and meet requirements of the Health Science Admission Application for Massage Therapy
  • Obtain TABE assessment scores at or above the state mandated grade level unless exempt
  • Complete the Health Science Prerequisite Courses by the end of the first semester
  • Complete all lecture courses with a grade of “C” or higher
  • Complete all lab courses with a grade of “C” or higher
  • Maintain a minimum program GPA of 2.0

Summer
HCP8001 Health Careers Core 75
HSC8405 Basic Life Support 8
HSC8591 HIV/AIDS 4
HSC8691 Domestic Violence 2
HSC8822 OSHA/TB 6
HSC8921 Medical Errors 2
Total Term Clock Hours 95

Term I
MSS0250 Introduction to Massage Therapy 15
MSS0250L Introduction to Massage Therapy Lab 140
MSS0801 Medical Ethics & Standards 15
MSS0150 Anatomy & Physiology of Body Systems 75
MSS0301 Hydrotherapy Modalities 15
MSS0301L Hydrotherapy Modalities Lab 45
Total Term Clock Hours 305

Term II
MSS0156 Anatomy & Physiology II 45
MSS0156L Anatomy & Physiology II Lab 60
MSS2281 Allied Modalities 15
MSS2281L Allied Modalities Lab 120
MSS0803L Massage Therapy Clinical Practicum 110
Total Term Clock Hours 550
Total Program Clock Hours 750

* Requires a Pre- or co-requisite course. See course description online at www.broward.edu/zext/ext/CourseDescDepartmentList.jsp.

It is strongly recommended that students see an advisor every term.
**MEDICAL ASSISTING**  
Vocational Certificate Major Code 5215

**Program Description**  
The Medical Assisting Program is a 10-month vocational certificate program. The Broward College Medical Assisting Certificate Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of Medical Assisting Education Review Board (MAERB).

**Commission on Accreditation of Allied Health Education Programs**  
1361 Park Street  
Clearwater, FL 33756  
727-210-2350  
www.caahep.org

Students are placed into practicums in physicians’ offices throughout Broward County which offer maximum flexibility. The practicum course has been especially designed to meet the individual needs of the student, thus allowing for the development of specific skills within a chosen interest or specialty area. The role of the Medical Assistant within the physician’s office is varied, demanding, and complex. Duties and responsibilities may encompass those of a physician’s assistant, technician, or medical assistant. In many instances, the Medical Assistant functions in all three areas while also serving as a public relations specialist. Upon completion of this ten (10) month program the student will be eligible to write the national certification exam of the American Association of Medical Assistants to obtain the credential of Certified Medical Assistant (CMA-AAMA).

**Entrance Requirements**  
This program has a limited number of seats available per year and students are selected based upon the criteria announced online at www.broward.edu/admissions/Pages/Health-Sciences-Admissions.aspx.

Requirements for the Vocational Certificate in Medical Assisting:  
Completion of 1204 clock hours, 6 college semester hours (96 contact hours), a grade point average of 2.0 or higher and obtain TABE Assessment scores at or above the state mandated grade level (for TABE test information please call the Central Campus Testing Center at 954-201-6982). No grade lower than “C” will be acceptable in ALL courses required for the Medical Assisting Certificate.

Note: To successfully progress through the Medical Assisting Program, students must achieve a grade of “C” or above in all didactic courses, an “S” (satisfactory) grade in all clinical and laboratory courses, maintain an overall degree GPA of at least 2.0.

**Health Science Pre-requisite Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Total Term Clock Hours</th>
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</thead>
<tbody>
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<td>HCP0001</td>
<td>Health Careers Core Curriculum</td>
<td>75</td>
<td>96</td>
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<td>HSC0405</td>
<td>Basic Life Support</td>
<td>8</td>
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<td>HSC0591</td>
<td>HIV/AIDS</td>
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<td>HSC0591</td>
<td>Domestic Violence</td>
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<td>HSC0522</td>
<td>OSHA/TB</td>
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<td>HSC0592</td>
<td>Prevention of Medical Errors</td>
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<td>HSC0592</td>
<td>All Hazards Training</td>
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**Term I Session I**

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<td>Medical Terminology</td>
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<td>MEA0254: Basic Lab Procedures I 48</td>
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<td>MEA0233</td>
<td>Anatomy and Physiology</td>
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<td>MEA0254: Clinical Proc I 64</td>
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<td>MEA0334</td>
<td>Admin Office Procedures</td>
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<td>MEA0254: Clinical Proc I Lab 64</td>
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<td>MEA0534L</td>
<td>Admin. Office Proc. Lab</td>
<td>48</td>
<td>MEA0254: Radiography for MA 64</td>
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<td>MEA0534</td>
<td>Admin Office Proc. Lab</td>
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<td>MEA0254: Radiography for MA Lab 64</td>
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**Term I, Session II**

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<td>Basic Lab Procedures I</td>
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<td>MEA0255L</td>
<td>Basic Lab Procedures I Lab</td>
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**Term II, Session II**

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<td>MEA0256L</td>
<td>Basic Lab Procedures II Lab</td>
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<td>MEA0204</td>
<td>Clinical Proc I</td>
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<td>MEA0259L</td>
<td>Radiography for MA II Lab</td>
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<td>Electrocardiography for MA</td>
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**Term III Session II (1)**

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**CGS1060C**  
Computer and Internet Literacy**  
5 Credits

**Total Semester Clock Hours**

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* Requires a pre- or co-requisite. Refer to the course descriptions found online at www.broward.edu/textext/CourseDoc/DepartmentList.jsp.

** Students must fulfill the College’s computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

(1) Verification of CPR is required before graduating. CPR and First Aid will be taught by the Continuing Education Department.

It is strongly recommended that students see an advisor every term.
MUSIC TECHNOLOGY
Music Technology Associate in Science Major Code 2206

Program Description
The Associate in Science degree in Music Technology is designed for students who intend to seek employment in the commercial music field and for those who are presently employed in the music technology field and desire advancement. Some of the careers, to which this sequence may lead, are recording engineer, sound designer, live sound reinforcement engineer and producer.

Related Programs
Audio Technology Certificate Major Code 6309

First Year, Term I
MUS1360 Introduction to Music Technology 3
MUT1111 Music Theory I 3
MUT1241 Sight Singing 1
Elective  Applied Music Elective* 1
MVK1111 Piano Class 1
MGF1106 Mathematics for Liberal Arts I or MGF1107 Mathematics for Liberal Arts II 3
Total Semester Hours: 12

First Year, Term II
MUS2342C Digital Audio I 3
MUS2344C Midi Systems and Sound Design I 3
Elective  Any Applied Music Class* 1
Elective  Music Ensemble Elective+ 1
Total Program Semester Hours 64

Second Year, Term I
MUM1600C Intro to Rec. Studio Procedures 3
MUS2348C Digital Audio Music Prod II 3
Elective  Any Applied Music Class* 1
Second Year, Term II
MUM2601C Recording Studio Techniques II 3
MUS2549C Advanced Projects in Music Production 3
Elective  Any Applied Music Class* 1
Total Program Semester Hours 64

* Applied Music Elective: Any course with a MVB or MVJ or MVK or MVO* or MVP or MVS or MVV or MVW prefix
+ Music Ensemble Elective: Any course with the MUN prefix

It is strongly recommended that students see an advisor every term.

MUSIC TECHNOLOGY
Audio Technology Certificate 6309

Program Description
The purpose of this program is to prepare students for initial employment as a sound technician or recording technician, or to provide supplemental training for persons previously or currently employed in those occupations. The content includes, but is not limited to, set up and configuration of a computer for audio applications, and the operation of basic reproduction, reinforcement and recording audio equipment.

Related Programs
Music Technology AS degree 2206

First Year, Term I
MUS1360 Introduction to Music Technology 3
Total Semester Hours: 3

First Year, Term II
MUS2342C Digital Audio I 3
MUS2434C Introduction to Midi Systems and Sound Design I 3
Total Semester Hours: 6

Second Year, Term I
MUM1600C Intro to Rec. Studio Procedures 3
MUS2548C Digital Audio Music Prod II 3
Total Semester Hours: 6

Second Year, Term II
MUM2600C Recording Studio Techniques II 3
MUS2940 Internship 3
Total Program Semester Hours 15

It is strongly recommended that students see an advisor every term.
It is strongly recommended that students see an advisor every term.

1. Prerequisite – CTS2131C (with a grade of C or higher)
2. Prerequisite – CTS2111C (with a grade of C or higher)
3. Prerequisite – CET1600C (with a grade of C or higher)
4. Prerequisite – CET2625C Cisco CCNP I (4 credits)
5. Prerequisite – CET2625C Cisco CCNP II (4 credits)
6. Prerequisite – CET2625C Cisco CCNP III (4 credits)
7. Prerequisite – CET2625C Cisco CCNP IV (4 credits)
8. Prerequisite – CET2625C Cisco CCNP V (4 credits)
9. Prerequisite – CET2625C Cisco CCNP VI (4 credits)
10. Prerequisite – CET2625C Cisco CCNP VII (4 credits)
11. Prerequisite – CET2625C Cisco CCNP VIII (4 credits)
12. Prerequisite – CET2625C Cisco CCNP IX (4 credits)
13. Prerequisite – CET2625C Cisco CCNP X (4 credits)
14. Prerequisite – CET2625C Cisco CCNP XI (4 credits)
15. Prerequisite – CET2625C Cisco CCNP XII (4 credits)

* Any 1000 or 2000-level course with a CTS prefix or CET2625C Cisco CCNP I (4 credits)

It is strongly recommended that students see an advisor every term.
### NETWORKING SERVICES TECHNOLOGY

**Microsoft MCITP – Server Administrator Technical Certificate Major Code 6283**

#### Program Description
The Information Technology Management – Microsoft MCITP Server Administration certificate program, offered at A. Hugh Adams Central Campus, prepares students for employment opportunities as network support specialists. It is designed for students seeking the skills set necessary to be successful in their careers as Microsoft MCITP Server Administrators.

#### Related Programs
- Network Services Technology Associate in Applied Science Major Code 6038
- Network Services Technology Associate in Science Major Code 2201
- Cisco CCNA Technical Certificate Major Code 62387
- Network Support Technician Technical Certificate Major Code 6282

1. Students can earn a certificate from 6282, 6283, or 62387, but not from two or more of these programs.

#### Required Courses
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CTS1133C</td>
<td>A+ Essentials</td>
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<tr>
<td>CTS1313C</td>
<td>A+ Practical</td>
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</tr>
<tr>
<td>CTS1344C</td>
<td>Networks+</td>
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<tr>
<td>CTS1390C</td>
<td>Installing and Configuring Windows Server 2012</td>
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<tr>
<td>CTS1391C</td>
<td>Administering Windows Server 2012</td>
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<tr>
<td>CTS1392C</td>
<td>Configuring Advanced Windows Server 2012</td>
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<td>CTS2345C</td>
<td>Security+</td>
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<tr>
<td>CS Elective</td>
<td>Computer Science Elective*</td>
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<td>Total Program Semester Hours</td>
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</tbody>
</table>

*Computer Science Elective: any course with a CIS, COP, or CTS prefix*

1. Prerequisite-CTS 1133C (with grade of C or higher)
2. Prerequisites-CTS 1133C and CTS 2131C (each with grade of C or higher)
3. Prerequisite-CTS 1134C (with grade of C or higher)
4. Prerequisite – CTS 2546C (with grade of C or higher)

It is strongly recommended that students see an advisor every term.

### NETWORKING SERVICES TECHNOLOGY

**Network Support Technician Technical Certificate Major Code 6282**

#### Program Description
The Information Technology Management – Network Support Technician certificate program, offered at A. Hugh Adams Central Campus, prepares students for employment opportunities as network support specialists. It is designed for students seeking the skills set necessary to be successfully in their careers in network support ranging from Microsoft Windows (MCP), to Cisco routing and switching (CCENT), to CompTIA system, network, and security (A+, Net+, and Security+).

#### Related Programs
- Network Services Technology Associate in Science Major Code 2201
- Cisco CCNA Technical Certificate Major Code 62387
- Microsoft MCITP – Server Administrator Technical Certificate Major Code 6283

1. Students can earn a certificate from 6282, 6283, or 62387, but not from two or more of these programs.

#### Required Courses
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>CTS1133C</td>
<td>A+ Essentials</td>
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<tr>
<td>CTS1313C</td>
<td>A+ Practical</td>
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</tr>
<tr>
<td>CTS1344C</td>
<td>Networks+</td>
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<td>CET1630C</td>
<td>Network Cabling Technologies</td>
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<td>CTS1327C</td>
<td>Microsoft Windows Client</td>
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<td>CTS1111C</td>
<td>Linux+</td>
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<td>CTS2190C</td>
<td>Security+</td>
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<tr>
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<tr>
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<td>Total Program Semester Hours</td>
<td>30</td>
</tr>
</tbody>
</table>

*Computer Science Elective: any course with a CIS, COP, or CTS prefix*

1. Prerequisite-CTS 1133C (with grade of C or higher)
2. Prerequisites-CTS 1133C and CTS 2131C (each with grade of C or higher)
3. Prerequisite-CTS 1134C (with grade of C or higher)

It is strongly recommended that students see an advisor every term.
NUCLEAR MEDICINE TECHNOLOGY
Nuclear Medicine Technology Associate in Science Major Code 2102

Program Description
Nuclear Medicine Technologists prepare and administer radiopharmaceuticals to patients and perform diagnostic procedures on virtually every organ system in the human body by using highly sophisticated computerized detection systems to produce and process images. Clinical Education is performed in medical facilities such as outpatient centers and hospitals and is offered concurrently with the didactic courses. The program maintains regional accreditation through the Southern Association of Colleges and Schools.

This Associate in Science degree program is a two-year program. Applicants shall complete the first year General Education Requirements prior to the second year of the program. Upon completion of this degree program, the student will be eligible for the Nuclear Medicine National Board Certification Exam. They are offered by, the American Registry of Radiologic Technologists (ARRT) and/or the Nuclear Medicine Technology Certification Board (NMTCB). The program is offered in Building 41, RC North Campus, 1000 Coconut Creek Boulevard, Coconut Creek, FL.

Entrance Requirements
This program has a limited number of seats available per year and students are selected based upon the criteria announced online at www.broward.edu/admissions/Pages/Health-Sciences-Admissions.aspx.

Requirements for the Associate in Science Degree in Nuclear Medicine Technology:
- Complete 75 hours of credit with a degree grade point average of 2.0 or higher.
- No grade lower than a "C" will be acceptable in all degree courses.

Related Programs
Hospital-Based Nuclear Medicine Associate in Science Degree Major Code 21021
Nuclear Medicine Technology Specialist Technical Certificate Major Code 6224

Students can earn a degree from either 2102 or 21021, but not both programs.

Note: In order to successfully progress through the AS Nuclear Medicine Technology Program, students must achieve a grade of "C" or above in all didactic courses and an "S" (satisfactory) grade in all clinical and laboratory courses. This requirement is in addition to maintaining an overall degree GPA of at least 2.0.

Pre-requisite Courses
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<td>CHM1032</td>
<td>Chemistry for Health Sciences*</td>
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<td>Chemistry for Health Sciences Lab*</td>
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<td>BSC2085</td>
<td>Anatomy and Physiology I*</td>
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<td>Anatomy and Physiology Lab I*</td>
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First Year Term I
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<tbody>
<tr>
<td>NMT1002</td>
<td>Introduction to Nuclear Medicine*</td>
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<tr>
<td>NMT1002L</td>
<td>Nuclear Medicine Lab*</td>
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<tr>
<td>NMT1450</td>
<td>Radiation Safety and Radiobiology*</td>
<td>3</td>
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<tr>
<td>CGS1060C</td>
<td>Computer and Internet Literacy</td>
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<td>SPC1624</td>
<td>Introduction to Speech Communications or</td>
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First Year Term II
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<tr>
<td>NMT1804</td>
<td>Nuclear Medicine Clinical Education I*</td>
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<td>NMT1630</td>
<td>Nuclear Medicine Physics and Math App*</td>
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<td>NMT1714</td>
<td>Nuclear Medicine Pathology</td>
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<td>BSC2086</td>
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<tr>
<td>GE Course</td>
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Continued on next page

NUCLEAR MEDICINE TECHNOLOGY
Nuclear Medicine Technology Associate in Science Major Code 2102 (continued)

First Year Term III
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<tr>
<td>GE Course</td>
<td>General Education Social &amp; Behavioral Science+</td>
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<td>NMT1814</td>
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Second Year Term I
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<td>NMT2713</td>
<td>Nuclear Medicine Methodology I*</td>
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<td>NMT2713L</td>
<td>Nuclear Medicine Methodology I Lab*</td>
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<tr>
<td>NMT2735</td>
<td>Nuclear Medicine Radiopharmacy*</td>
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<td>NMT2824</td>
<td>Nuclear Medicine Clinical Education III*</td>
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<td>NMT2779</td>
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<td>NMT2102</td>
<td>Nuclear Medicine Administration*</td>
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</tr>
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<td>NMT2354</td>
<td>Nuclear Medicine Instrumentation*</td>
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</tr>
<tr>
<td>NMT2723</td>
<td>Nuclear Medicine Methodology II*</td>
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<td>NMT2723L</td>
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<td>NMT2824</td>
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Second Year Term III
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<tr>
<td>NMT2844</td>
<td>Nuclear Medicine Clinical Education V*</td>
<td>2</td>
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<tr>
<td>NMT2900</td>
<td>Independent Study in Nuclear Medicine Clinic ***</td>
<td>5</td>
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</table>

* Requires a pre- or co-requisite. Refer to the course descriptions found online at www.broward.edu/next/next/CourseDoc/DepartmentList.jsp.
** CGS1060C must be completed within the first 15 hours of Broward College coursework.
*** Only to be used in emergency cases.
+ General Education courses must be selected from the list of AS Degree courses found in the College Catalog/posted on line at www.broward.edu/studentsresources/advising/Pages/gned.aspx

It is strongly recommended that students see an advisor every term.
It is strongly recommended that students see an advisor every term.

Note: In order to successfully progress through the Nuclear Medicine Technology Specialist Technical Certificate Program, students must achieve a grade of “C” or above in all didactic courses and an “S” (satisfactory) grade in all clinical and laboratory courses. This requirement is in addition to maintaining an overall degree GPA of at least 2.0.

Requirements for Nuclear Medicine Technology-Technical Certificate Program:
- Complete 48 semester credit hours with a GPA of 2.0 or higher.
- No grade lower than a “C” in all certificate course
- Students must fulfill the College’s computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student resources/advising/Pages/Computer-Literacy-Basic.aspx course.

Note: In order to successfully progress through the Nuclear Medicine Technology Specialist Technical Certificate Program, students must achieve a grade of “C” or above in all didactic courses and an “S” (satisfactory) grade in all clinical and laboratory courses. This requirement is in addition to maintaining an overall degree GPA of at least 2.0.

Requirements for Nuclear Medicine Technology-Technical Certificate Program:
- Complete 48 semester credit hours with a GPA of 2.0 or higher.
- No grade lower than a “C” in all certificate course
The Nursing Program offers two full time program options for the Associate in Science Degree in Nursing: The Generic Option and the LPN-RN Transition Option. Both program options are offered in the traditional classroom setting and the online/internet setting. The cost of tuition is the same as for those courses offered in the traditional classroom setting. However, students enrolled in online nursing courses may be assessed special fees.

Online nursing courses are equivalent to courses taken in the standard contact hour format. The tuition is the same as for those courses offered in the traditional classroom setting. However, students enrolled in online nursing courses may be assessed special fees.

The program consists of 72 credits. The ratio of clock hours to credit hours in the clinical courses is 3.5 to 1. There are 56 hours of clinical practicum for each semester. Clinical hours are a combination of nursing experiences in acute care and extended care facilities and nursing campus lab setting. All clinical hours are essential for clinical placement and progression. Students who fail to submit to a background check or students whose background checks indicate a criminal or discipline history should read Chapter 64B, Florida Statutes (F.S.) and Chapter 64B9, Florida Administrative Code (F.A.C.) as they pertain to the practice of nursing. The Board of Nursing encourages all individuals with a criminal or discipline history to fully understand these requirements. For more information refer to the Florida Board of Nursing website www.broward.edu or call 800-488-6090 or email MQA_Nursing@bhs.state.fl.us

General Program Information

The Nursing Program offers two full time program options for the Associate in Science Degree in Nursing: The Generic Option and the LPN-RN Transition Option. Both program options are offered in the traditional classroom setting and the online/internet setting. The General Option is for those student applicants who have no previous nursing education. The LPN-RN Transition Option is for those students who already hold a current Florida Practical Nursing License without restrictions. The LPN-RN Transition program recognizes the Florida Licensed Practical Nurses’ knowledge and skill level, and provides them the opportunity to receive experiential learning credits for Nursing Process I/II (Fundamentals of Nursing) and the specialty lab nursing courses. The Generic Option and LPN-RN Transition Option are both offered in the traditional classroom setting or via the Internet (Online Option). The Online Option offers the nursing program theory as a Flexible Learning course designed for students who prefer a blend of online and on campus learning. The online program objectives and program completion requirements are identical to the traditional nursing program.

Online nursing courses are equivalent to courses taken in the standard contact hour format. The tuition is the same as for those courses offered in the traditional classroom setting. However, students enrolled in online nursing courses may be assessed special fees.

Online nursing is a Hybrid method of delivery for courses and requires on campus modules for orientations, labs, instruction, and proctored exams. Required meeting dates are listed in the course schedule and in course syllabi. Students enrolled in the online nursing courses must be able to attend clinical experiences in Broward County and come to campus for exams and lab activities.

The program includes 22 credits for General Education courses. You must complete all courses with a grade of “C” or higher. Refer to AS Degree Requirements outlined in the college catalog (BC Webpage).

Nursing Prerequisite ↓

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<thead>
<tr>
<th>Course</th>
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<tr>
<td>ENC101</td>
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<tr>
<td>GE Course</td>
<td>General Education Mathematics</td>
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<tr>
<td>BSC2085</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>5</td>
</tr>
<tr>
<td>BSC2085L</td>
<td>Human Anatomy &amp; Physiology Lab</td>
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<tr>
<td>BSC2086</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>5</td>
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<td>Total Semester Credit Hours</td>
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</tbody>
</table>

* See www.broward.edu/admissions/Pages/Health-Sciences-Admissions.aspx for complete details HCP 0001, Health Career Core is also required

Continued on next page.
It is strongly recommended that students see an advisor every term.

NOTE: Students majoring in Nursing at the college will meet the College's oral communication and computer literacy requirements by

- Successfully completing all required Nursing (NUR) courses.
- Graduation Requirements:
  - Complete the prescribed college-level semester credit hours at Broward College.
  - Complete 25% of the prescribed college-level semester credit hours at Broward College.
  - Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the AS degree.

Related Programs

The Office Administration Associate in Science

Specializations: Office Management; Office Software; Medical Office; Legal Office

Program Description
- The Office Administration Associate in Science Degree emphasizes competencies used by various office support personnel. Students will have the opportunity to develop expertise in keyboarding, software applications, business ethics and communications, and office management. Students may choose a specific career path in Legal, Medical, or Office Management. This program is currently offered at the South and North campuses.
- Technical Certificates that may lead to an Office Administration Associate in Science degree are: Office Management Technical Certificate (6237E); Medical Office Management Technical Certificate (6281E); Office Specialist Technical Certificate (6280E); and Office Support Technical Certificate (6279E). (See catalog or program sheet for more information.)

General Education Requirements:
- Complete the prescribed college-level semester credit hours at Broward College.
- Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the AS degree.

Related Programs

Graduation Requirements:
- Complete the prescribed college-level semester credit hours at Broward College.
- Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the AS degree.

Related Programs

Program Core Requirements:
- Complete the prescribed college-level semester credit hours at Broward College.
- Complete 25% of the prescribed college-level semester credit hours at Broward College.
- Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the AS degree.

Related Programs

Program Core Requirements:
- Complete the prescribed college-level semester credit hours at Broward College.
- Complete 25% of the prescribed college-level semester credit hours at Broward College.
- Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the AS degree.

Related Programs
It is strongly recommended that students see an advisor every term.
It is strongly recommended that students see an advisor every term.

Physical Therapist Assistant Associate in Science Major Code 2153

Program Description
The Physical Therapist Assistant Program is delivered to students at BC and Edison State College (ESC) via distance learning technology. Lectures are broadcast in real time so that all sites participate in lecture classes together. The individual sites manage lab sessions. The clinical education component of the program is managed by the Academic Coordinator of Clinical Education at the Broward site. The program provides the student with the opportunity to develop technical skills relative to physical therapy through planned clinical, classroom and laboratory experiences. The graduate will be prepared to provide a variety of services under the direction and guidance of a supervising physical therapist. The program is a full-time day program accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE). A licensing examination is required upon completion of the two-year program and the Physical Therapist Assistant shall be eligible for an appropriate membership category in the American Physical Therapy Association. The program is offered in Building 41 on North Campus, Coconut Creek, Florida and at ESC on the Lee County campus in Fort Myers, Florida. Applicants should access admission information online at www.broward.edu/healthsciences or call 954-201-2892. Applicants should review the program’s web site at www.broward.edu/pta for additional information. In order to successfully progress through the Physical Therapist Assistant program, students must successfully achieve all affective, cognitive and psychomotor objectives, achieve a grade of “C” or above in all program courses, a grade of “S” in all clinical practicums, and maintain a minimum GPA of 2.0 or higher. Contact the Program Manager for additional progression criteria.

Entrance Requirements
This program has a limited number of seats available per year and students are selected based upon the criteria announced online at www.broward.edu/admissions/Pages/Health-Sciences-Admissions.aspx.

Requirements for the Physical Therapist Assistant in Science:
• Complete the Physical Therapy courses with a grade of “C” or higher.

First Year Term I
BSC2085 Anatomy and Physiology I * 3
BSC2086L Anatomy and Physiology I Lab * 1
GE Course General Education Mathematics+ 3
Total Term Semester Hours 13

Second Year Term I
PHT2120L Introduction to Physical Therapy 3
PHT2704L Rehaibritve Procedures * 1
Total Term Semester Hours 14

First Year Term II
BSC2086 Anatomy and Physiology II * 3
BSC2086L Anatomy and Physiology II Lab * 1
PHT1350 Basic Pharmacology * 1
PHT2162 Survey of Neurological Deficits * 3
Total Term Semester Hours 16

Second Year Term II – Fifth Semester
HSC1531 Medical Terminology 3
PHT1310 Survey of Musculoskeletal Deficits * 2
Total Term Semester Hours 74

First Year Term II
PHT1010 Physical Principles for PTA * 1
PHT1211L Disabilities and Therapeutic Procedures I Lab * 2
PHT1224L Disabilities and Therapeutic Procedures II Lab * 4
PHT1224L Disabilities and Therapeutic Procedures II Lab * 2
PHT1224L Disabilities and Therapeutic Procedures II Lab * 4
Total Term Semester Hours 15

+ Requires a pre- or co- requisite. See course description in BC or Edison State College catalog, or online at www.broward.edu/ptas/GeneralEducationCourses.aspx.

Successful completion of the Physical Therapist Assistant Program will satisfy Broward College’s Oral Communication Standard and basic computer skill requirement.

Upon successful completion of PHT1200 and PHT1200L, students will have met the Health Careers Core objectives.

It is strongly recommended that students see an advisor every term.
Program Description
The Radiation Therapy Programs prepare individuals to successfully perform as a radiation therapist. Radiation therapists are vital members of a team of health professionals including a radiation oncologist (physician), physicist, dosimetrist, and oncology nurse. Some of the many functions of a radiation therapist include: assisting the radiation oncologist in localizing the tumor and simulating treatment parameters, treating patients with malignant diseases using ionizing radiation, monitoring patient’s physical condition and response to treatment and recognizing treatment complications. Clinical education is performed in Broward and Palm Beach County hospitals/clinics and is offered concurrently with the didactic courses. The program maintains regional accreditation through the Southern Association of Colleges and Schools.

This Associate in Science degree program is a two-year program. Applicants must complete all of the AS General Education course requirements prior to admission to the second year of the program. Upon completion of this degree program, the graduates are eligible to take the American Registry of Radiologic Technologists (ARRT) certification exam & subsequently apply to the state of Florida for licensure. Clinical Education is performed in Palm Beach, Broward, and Martin County hospitals/radiation therapy centers and is offered concurrently with the didactic classes. The program maintains regional accreditation through the Southern Association of Colleges and Schools.

The program is offered in Building 41 on North Campus. Applicants should access admission information online at www.broward.edu/admissions/ Pages/Health-Sciences-Admissions.aspx, or call 954-201-2890. Applicants should contact the program manager at 954-201-2352 for specific program information. Radiation Therapy AS Program applicants who have criminal convictions or concerns must clear the ARRT ethics requirements through a pre-application review of eligibility process. The Pre-application Review of Eligibility process with the American Registry of Radiologic Technologists is done to avoid potential delays when applying to take the certification exam. Applicants should contact the ARRT directly at 651-687-6048 for further information.

Entrance Requirements
This program has a limited number of seats available per year and students are selected based upon the criteria announced online at www.broward.edu/college/catalog/postedonline at www.broward.edu/admissions/ Pages/Health-Sciences-Admissions.aspx.

Related Programs
Hospital-Based Radiation Therapy Associate in Science Degree Major Code 21591
Radiation Therapy Specialist Technical Certificate Major Code 6228

Note: In order to successfully progress through the AS Radiation Therapy Program, students must achieve a grade of “C” or above in all didactic courses and clinical courses and an “S” (satisfactory) grade in all laboratory courses. This requirement is in addition to maintaining an overall degree GPA of at least 2.0.

Continued on next page
Radiation Therapy Specialist Technical Certificate Program Major Code 6228

Program Description:
The Radiation Therapy Specialist Technical Certificate program prepares the Certified Radiologic Technologist (A.R.R.T.) for employment as a radiation therapist. Upon completion of this 16 month full-time day program the graduates are eligible to take the American Registry of Radiologic Technologists (ABR.T) certification exam & subsequently apply to the state of Florida for licensure. The program is offered in Building 41 on North Campus.

Entrance Requirements
This program has a limited number of seats available per year and students are selected based upon the criteria announced online at www.broward.edu/admissions/Pages/Health-Sciences-Admissions.aspx. Applicants can call 954-201-2890 for admission information. Applicants should call the program manager at 954-201-2352 for specific program information.

Requirements for Radiation Therapy Specialist-Technical Certificate Program: (For Radiologic Technologists)
- Complete 45 semester credit hours with a GPA of 2.0 or higher.
- Complete all certificate courses with a grade of "C" or higher.

Note: In order to successfully progress through the Radiation Therapy Specialist Program, students must achieve a grade of "C" or above in all didactic courses and clinical courses, and an "S" (satisfactory) grade in all laboratory courses. This requirement is in addition to maintaining an overall degree GPA of at least 2.0.

Related Programs
Radiation Therapy Associate in Science Major Code 2159
Hospital-Based Radiation Therapy Associate in Science Degree Major Code 21591

Students can earn a degree from either 2159 or 21591, but not both programs.

Program starts in May (Summer Term) & Term I

Term I
- RAT2001 Radiation Therapy Principles * 1
- RAT2021 Principles of Radiation Therapy II * 2
- RAT2002 Clinical Education I * 1
- RAT2104 Radiation Oncology Law * 3
- RAT2022 Principles of Radiation Therapy II * 2
- RAT2003 Radiation Therapy Clinical * 2
- RAT2243 Radiation Oncology Sectional Anatomy * 4
- RAT2023 Radiation Oncology Law * 3
- RAT2040 Radiation Oncology Ethics * 1
- RAT2041 Radiation Oncology Law * 3
- RAT2024 Radiation Oncology Law * 3

Total Program Semester Hours 16

Term II
- RAT2834 Radiation Oncology Law * 3
- SPSC1608 Public Speaking or
- RAT2025 Radiation Therapy Clinical * 2
- RAT2834 Radiation Therapy Clinical * 2
- RAT2025 Radiation Therapy Clinical * 2
- RAT2025 Radiation Therapy Clinical * 2
- RAT2025 Radiation Therapy Clinical * 2
- RAT2025 Radiation Therapy Clinical * 2
- RAT2025 Radiation Therapy Clinical * 2
- RAT2025 Radiation Therapy Clinical * 2
- RAT2025 Radiation Therapy Clinical * 2

Total Program Semester Hours 16

** Requires a pre- or corequisite. Refer to the course descriptions found online at www.broward.edu/extern/extern/CourseDescDepartmentList.jsp.

It is strongly recommended that students see an advisor every term.
Continued on next page.

**Requirements for Associate in Science Degree in Radiography**

**Hospital-Based Radiography Associate in Science Degree Major Code 21311**

- **Students can earn a degree from either 2131 or 21311, but not both programs.**

- **Pre-requisite Courses**

  - ENC1101 Composition I** 3
  - HSC1351 Medical Terminology 3
  - BSC2085 Anatomy and Physiology I** 3
  - BSC2085L Anatomy and Physiology I Lab* 1
  - MGF1106 (Math for Liberal Arts I) or MAC1105 College Algebra* or STA2023 Statistics* 3
  - CIS1060C Computer & Internet Literacy** 3

  - **First Year Term I**
    - RTE1503 Radiographic Procedures I** 3
    - RTE1503L Radiographic Procedures I Lab* 1
    - RTE1804 Clinical Education I** 2
    - GE Courses General Education Humanities+ 3

  - **First Year Term II**
    - RTE1513 Radiographic Procedures II** 3
    - RTE1513L Radiographic Procedures II Lab* 1
    - RTE1418 Imaging I** 2
    - RTE1418L Imaging I Lab* 1
    - RTE1613 Radiographic Physics** 2
    - RTE1814 Clinical Education II** 2
    - BSC2086 Anatomy and Physiology II** 3
    - BSC2086L Anatomy and Physiology II Lab* 1

  - **Second Year Term I, Sessions 1, 2 or 3**
    - RTE2854 Clinical Education III** 3
    - RTE2854L Clinical Education III Lab* 1
    - RTE2130L Pharmacology & Venipuncture** 2
    - RTE2130 Pharmacology & Venipuncture 2
    - RTE2782 Radiographic Pathology** 2
    - RTE2864 Clinical Education IV** 3
    - GE Course General Education Social & Behavioral Sciences+ 3

  - **Second Year Term II**
    - RTE2861 Radiography Seminar* 1
    - RTE2864 Clinical Education V** 1

  - **Second Year Term III, Session 2**
    - RTE2861 Radiography Seminar* 1
    - RTE2864 Clinical Education V** 1

  - **Total Term Semester Hours**
    - 15

  - **Total Program Semester Hours**
    - 77

**Note:** Program applicants who have criminal convictions should clear the ARRT ethics requirements through a pre-application review of eligibility process prior to starting the program. This review process with the ARRT is done to avoid potential denial of eligibility to take the exam or delays when applying to take the certification exam. Applicants should contact the ARRT directly at 651-687-0048 for further information.

**Note:** Students must fulfill the College’s computer literacy requirement within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

**Note:** Graduates are eligible to take the American Registry of Radiologic Technologists (ARRT) certification exam & subsequently apply to the state of Florida for licensure. The Radiography Program maintains regional accreditation through the Southern Association of Colleges and Schools.

**Program Description**

This degree program prepares students to practice as radiographers. Radiographers manipulate x-ray equipment and provide patient care to produce images of the tissues, organs, bones, and vessels of the body. Radiographers work closely with radiologists, who are the physicians responsible for interpreting medical images. Graduates are eligible to take the American Registry of Radiologic Technologists (ARRT) certification exam & subsequently apply to the state of Florida for licensure. The Radiography Program maintains regional accreditation through the Southern Association of Colleges and Schools.

All radiography classes exclusive of clinical assignments are taught on the A. Hugh Adams Central Campus, 501 SW Davie Road, Davie, FL. Most of the courses in the program also contain an online component. Clinical assignments are scheduled in local hospitals. The clinical component includes some evening rotations during the second year of the program.

Note: All accepted applicants are guaranteed a clinical placement during the program. However, there are no guarantees that the clinical facility will be located close to the applicant’s home. Students may have to drive up to one hour or more from their home to the clinical site for which they have been assigned. Students will rotate to three different clinical sites during the program.

The program is offered in Building #8 on Central Campus.

**Pre-requisites**

- Maintain no less than a “C” grade in all degree courses.
- Complete 77 credit hours as listed with a degree GPA of 2.0 or higher.
- Complete the pre-requisite courses with a GPA of 2.5 or higher.
- Meet BC’s graduation requirements as listed in the Academic Programs and Graduation Requirements section of the College Catalog.

**Entrance Requirements**

This program has a limited number of seats available per year and students are selected based upon the criteria announced online at www.broward.edu/studentresources/advising/Pages/healthsciences-admissions.aspx. Applicants can call 954-201-2890 for admission information. Applicants should call the program manager at 954-201-2352 for specific program information.

**Related Programs**

- Hospital-Based Radiography Associate in Science Degree Major Code 21311

**Quality Assurance**

- The program is offered in Building #8 on Central Campus.

**Note:** In order to successfully progress through the Radiography Program, students must achieve all cognitive, affective, and psychomotor objectives. This requires a grade of “C” or above to be earned in all didactic courses and an “S” (satisfactory) grade in all clinical/laboratory courses. This is in addition to maintaining an overall degree GPA of at least 2.0.

Continued on next page.
It is strongly recommended that students see an advisor every term.

It is strongly recommended that students see an advisor every term.
# VISION CARE TECHNOLOGY

Vision Care Technology Opticianry Associate in Science – Major Code 21891

Program Description

The Associate Degree Program in Vision Care Technology provides the student with the opportunity to develop competency in skills relative to caring for a patient’s eyes. An Optician plays a vital role in the fitting and adapting of corrective lenses and other optical devices to aid people’s vision and correct ocular deficiencies. To accomplish this, the optician must use scientific and technical procedures and apply learned skills to correctly produce and fit quality eyewear and contact lenses. The curriculum has been designed to train the student in the laboratory techniques of measuring,.grinding, fitting, and adapting to eyewear.

The program is offered in Building 41 on North Campus. Applicants should call the Associate Dean at 954-201-2075 or 954-201-2080 for specific program information.

## Entrance Requirements

This program has a limited number of seats available per year and students are selected based upon the criteria announced online at www.broward.edu/admissions/Pages/Health-Sciences-Admissions.aspx. Applicants can call 954-201-2890 for admission information. Applicants should call the program manager at 954-201-2352 for specific program information.

## Requirements for the Associate in Applied Science in Opticianry

- Completion of a minimum of 72 semester hours of credit and a degree GPA of 2.0 or higher.
- No grade lower than “C” will be acceptable in any course required for the degree.

### First Year Term I

<table>
<thead>
<tr>
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### Second Year Term I

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### Total Semester Hours

- 15
- 22
- 14
- 15
- 22
- 12

### Total Program Semester Hours

- 72

### Term III, Session II and Session III

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<td>SPC1188</td>
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### Total Semester Hours

- 13

### Requirements for the Degree

- A pre- or co-requisite. See course description online at www.broward.edu/admissions/Pages/GenEd.aspx.
- General Education courses must be selected from the list of AS Degree courses found in the College Catalog/posted on line at www.broward.edu/studentresources/advising/Pages/gened.aspx.

Completion of the above listed courses qualifies the student as a candidate for the American Board of Opticians Certification Examination (ABOC), the National Contact Lens Examiners Registration Exam (NCLE).

It is strongly recommended that students see an advisor every term.

### Career & Technical Education

## Program Placement Rates 2009-2011

Current placement rates for Associates of Science (AS), Technical Certificate (TC), and Post-Secondary Adult Vocational (PSAV) programs as reported by the Florida Education and Training Placement Information Program (FETPIP).

<table>
<thead>
<tr>
<th>BC Program Title</th>
<th>Award Type</th>
<th>CIP Code</th>
<th>2009-09 FETPIP Current Placement Rate</th>
<th>2009-10 FETPIP Current Placement Rate</th>
<th>2010-11 FETPIP Current Placement Rate</th>
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<tr>
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**No data available**
Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 28 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online Statewide Course Numbering System to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at https://scns.fldoe.org.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course profiles."

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions as listed below in Exception to the General Rule for Course Equivalencies.

For example, a freshman composition skills course is offered by 56 different postsecondary institutions. Each institution uses "ENC_101" to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "ENC" means "English Composition," the century digit "1" represents "Freshman Composition," the decade digit "0" represents "Freshman Composition Skills," and the unit digit "1" represents "Freshman Composition Skills 1." In the sciences and certain other areas, a "C" or "L" after the course number indicates a component in that course that meets in the same place at the same time. The "C" is known as a lab indicator. The "L" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" is known as a lab indicator.

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Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For instance, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 or ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent. NOTE: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on semester-term systems. For example, 4.0 quarter hours often transfer as 2.67 semester hours.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge.

The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

Authority for Acceptance of Equivalent Courses

Section 1007.24(4), Florida Statutes, states:

Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possesses credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.
Exceptions to the General Rule for Equivalency

Since the initial implementation of the SCNS, specific disciplines or types of courses have been excepted from the guarantee of transfer for equivalent courses. These include varying topic courses that must be evaluated individually, or applied courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.

1. Courses not offered by the receiving institution.
2. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
3. Courses in the 900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Thesis and Dissertations.
4. College preparatory and vocational preparatory courses.
5. Graduate courses.
6. Internships, apprenticeships, practica, clinical experiences and study abroad courses with numbers other than those ranging from 900-999.
7. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (i.e., portfolio, audition, interview, etc.).

Courses at Non-regionally Accredited Institutions

The Statewide Course Numbering System makes available on its home page (http://scns.fldoe.org) a report entitled "Courses at Nonregionally Accredited Institutions" that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to The District Director for Academic Affairs, at (954) 201-7519 or the Florida Department of Education, Office of Articulation, 1401 Tulancingo Building, Tallahassee, Florida 32399-0490. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427 or via the internet at http://scns.fldoe.org.

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**ACG1001 ACCOUNTING SURVEY**  
Instruction in standard bookkeeping procedures for small professional, service, and retail sole proprietors. Attention is given to journalizing, posting, preparing the trial balance and financial statements. Procedures for handling petty cash, bank deposits and withdrawals, payroll and fund finance reports, and special journals are included. This course is primarily for the non-accounting major or for those who need additional background prior to taking ACG2001, Principles of Accounting I. Supplementary review and practice in applying accounting principles is available through usage of computer assisted instructional software. Prerequisite: MTB1103, suggested.  
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

**ACG2001 PRINCIPLES OF ACCOUNTING I**  
This course provides an introductory study of the fundamental principles of recording, summarizing and reporting the financial activities of proprietors. Advisement note: Students achieving less than a grade of "C" may experience academic difficulty in ACG2001, Principles of Accounting I. **A grade of less than "C" is not transferable to upper division.**  
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

**ACG2011 PRINCIPLES OF ACCOUNTING II**  
As the second course of the series, this course concludes the study of financial accounting. Topics covered include plant assets, current liabilities, payroll, corporations, partnerships and cash flow statements. Advisement note: Students achieving less than a grade of "C" may experience academic difficulty in ACG2011, Principles of Accounting II. **A grade of less than "C" is not transferable to upper division.**  
Prerequisite: ACG2001  
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

**ACG2071 MANAGERIAL ACCOUNTING**  
As the last course of the series, this course concludes the study of manufacturing accounting and managerial accounting. Topics covered include financial statement analysis, job order costing, the process cost system, cost behavior, cost-volume-profit analysis, budgeting, profit analysis, responsibility accounting, differential analysis, capital investment analysis and decision-making under uncertainty. Advisement note: Students achieving less than a grade of "C" may experience academic difficulty in higher level accounting courses. **A grade of less than "C" is not transferable to upper division.**  
Prerequisite: ACG2011  
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

**ACG2973 COMPUTERIZED ACCOUNTING**  
This course provides an introductory study of the elements comprising working capital, investments, and plants assets. Advisement Note: Students achieving less than a grade of "C" in ACG2011, Principles of Accounting II, may experience academic difficulty in this course.  
Prerequisite: ACG2111  
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

**ACG2110 INTERMEDIATE ACCOUNTING I**  
As the second course of the series, this course continues an in-depth study of financial statements and underlying records. The elements that comprise the equity side of the balance sheet are emphasized with additional attention given to special problems in income determination and financial reporting. Advisement Note: Students achieving less than a grade of "C" in ACG2110, Intermediate Accounting I, may experience academic difficulty in the course. Oferred Term I, Central Campus.  
Prerequisite: ACG2100  
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

**ACG2120 INTERMEDIATE ACCOUNTING II**  
As the second course of the series, this course concludes the study of financial accounting. Topics covered include plant assets, current liabilities, payroll, corporations, partnerships and cash flow statements. Advisement note: Students achieving less than a grade of "C" may experience academic difficulty in ACG2120, Intermediate Accounting II. **A grade of less than "C" is not transferable to upper division.**  
Prerequisite: ACG2110  
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

**ACG2150 MANAGEMENT ACCOUNTING**  
As the last course of the series, this course concludes the study of manufacturing accounting and managerial accounting. Topics covered include financial statement analysis, job order costing, the process cost system, cost behavior, cost-volume-profit analysis, budgeting, profit analysis, responsibility accounting, differential analysis, capital investment analysis and decision-making under uncertainty. Advisement note: Students achieving less than a grade of "C" may experience academic difficulty in higher level accounting courses. **A grade of less than "C" is not transferable to upper division.**  
Prerequisite: ACG2120  
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

**AER1081C INTRODUCTION TO AUTOMOTIVE TECH.**  
A course designed to introduce the field of Automotive Service. Topics include auto service careers, shop safety, fuels, lubricants, fasteners, tools and equipment. An introduction to the major automobile systems and instruction in minor service procedures are provided.  
Lec Hrs=48 Lab Hrs=48 Clin Hrs=0 Oth Hrs=0 Fees=29.83

**AER1082C INTRODUCTION TO GM AUTOMOTIVE TECHNOLOGY**  
A course designed to introduce the student to the various GM systems of the automobile. It will include instruction in shop practices, safety, service manuals, pay structures, tools, warranties, and personal relationships necessary to succeed in the GM dealership. The student will learn minor repair procedures including lubrication, wheel and tire, exhaust system service and new car pre-delivery service.  
Lec Hrs=48 Lab Hrs=48 Clin Hrs=0 Oth Hrs=0 Fees=29.83

**AER1083C INTRODUCTION TO GM AUTOMOTIVE TECHNOLOGY**  
A course designed to introduce the student to the various GM systems of the automobile. It will include instruction in shop practices, safety, service manuals, pay structures, tools, warranties, and personal relationships necessary to succeed in the GM dealership. The student will learn minor repair procedures including lubrication, wheel and tire, exhaust system service and new car pre-delivery service.  
Lec Hrs=48 Lab Hrs=48 Clin Hrs=0 Oth Hrs=0 Fees=29.83
AER197C  GM AUTOMOTIVE ENGINE REPAIR
This course is a study of the principles of operation and problem diagnoses of the internal combustion engine. Emphasis is placed on correct operation of the various engines is presented. Engines will be properly disassembled, parts identified, inspected, measured, and reassembled. Proper testing and in-line procedures along with approved diagnostic troubleshooting procedures will be emphasized. Prerequisite: AER1082C
Lec hrs=48  Lab hrs=48  Cln hrs=0  Oth hrs=0  Fees=45.83

AER198C  AUTOMOTIVE ENGINE REPAIR
A course designed to teach the principles of diagnostics and procedures necessary to completely rebuild an automotive engine and to provide the practical experience in the operation, diagnosis, disassembly, rebuilding, and dynamic check out. Topics include engine diagnosis, engine removal; engine disassembly; engine rebuilding; piston, pin and rod service; engine assembly; engine installation; valve adjustment; tune up; and road test procedures. Special emphasis will be given to safety procedures and the specific tools, fasteners, and equipment to be used. Lec hrs=48  Lab hrs=48  Cln hrs=0  Oth hrs=0  Fees=45.83

AER296C  GM MANUAL DRIVE TRAIN AND AXLES
A course designed to teach the principles and operations of manual transmissions and transaxles, clutch, overdrive units, pressure plates, propeller shafts, differential, drive axles and to provide practical experience in diagnosing, removing, maintaining, and repair/adjustment procedures of these systems. Topics include manual transmissions, drive systems, drive, rear wheel drive, and all-wheel drive. Applications include drum and disc brakes. Prerequisite: AER1082C
Lec hrs=48  Lab hrs=48  Cln hrs=0  Oth hrs=0  Fees=45.83

AER297C  GM STEERING AND SUSPENSION SYSTEMS
The student will develop the knowledge and skills related to the function and operation of GM steering and suspension systems alignment, testing, diagnosis and repair of modern GM vehicle systems will be emphasized. GM course related to steering and suspension systems will be included in the curriculum. These are subject to change as new components and replacement components are added. Special emphasis will be given to safety procedures and the specific tools and instruments to be used. Prerequisite: AER1082C
Lec hrs=48  Lab hrs=48  Cln hrs=0  Oth hrs=0  Fees=68.83

AER298C  GM BRAKE SYSTEMS AND CHASSIS REPAIR
This course is a study of the theory and operation of GM brake systems. Students will learn all aspects of the diagnosis, repair and testing of GM brake systems including drum and disc: brakes and power brake operation and repair. GM courses related to brake systems will be included in the curriculum. There are subject to change as new components and replacement components are added. Special emphasis will be given to safety procedures, and the specific tools and instruments to be used. Prerequisite: AER1082C
Lec hrs=48  Lab hrs=48  Cln hrs=0  Oth hrs=0  Fees=72.83

AER299C  GM AUTOMATIC TRANSMISSIONS AND TRANSAXLES
A course designed to teach the principles and operations of automatic transmissions and transaxles. Special emphasis will be given to safety procedures and the specific tools and instruments to be used. Prerequisite: AER1082C
Lec hrs=48  Lab hrs=48  Cln hrs=0  Oth hrs=0  Fees=65.83

AER299C  ADVANCED ENGINE PERFORMANCE
A course designed to teach the latest in computer engine controls, electronic fuel injection systems, emission controls and electronic instrumentation systems. This course includes theory of operation and construction, troubleshooting and repair. Prerequisite: AER1082C
Lec hrs=48  Lab hrs=48  Cln hrs=0  Oth hrs=0  Fees=83.83
and an introduction to communication skills. A
students to the U.S. Air Force Reserve Officer
Lchr = 0    Lbr = 0    Cln Hrs = 0    Ot Hrs = 200   Fees = 6.83
document the required hours and master the student performance standards.
Lchr = Lab Hrs = 0   Ot Hrs = 200 Fees = 6.83

A leadership laboratory is included and provides hands-on experience in advanced
to the practicing technician, students must document the required hours and master the student performance standards.
Lchr = Lab Hrs = 0   Ot Hrs = 200 Fees = 6.83

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to the practicing technician, students must document the required hours and master the student performance standards.
Lchr = Lab Hrs = 0   Ot Hrs = 200 Fees = 6.83

This course covers aircraft drawings, care and use of blueprint, isometric, orthographic and auxiliary projection lines and sections, dimensions, tolerances and allowances, geometric, construction, practical layout work and identification of standard parts and material, use of instruments, drawing and interpretation of free hand sketches of repairs and alterations, and use of various types of charts and graphs.
Lchr = Lab Hrs = 12   Ot Hrs = 0   Fees = 15.83

This course covers aircraft drawings, care and use of blueprint, isometric, orthographic and auxiliary projection lines and sections, dimensions, tolerances and allowances, geometric, construction, practical layout work and identification of standard parts and material, use of instruments, drawing and interpretation of free hand sketches of repairs and alterations, and use of various types of charts and graphs.
Lchr = Lab Hrs = 12   Ot Hrs = 0   Fees = 15.83

This course covers aircraft drawings, care and use of blueprint, isometric, orthographic and auxiliary projection lines and sections, dimensions, tolerances and allowances, geometric, construction, practical layout work and identification of standard parts and material, use of instruments, drawing and interpretation of free hand sketches of repairs and alterations, and use of various types of charts and graphs.
Lchr = Lab Hrs = 12   Ot Hrs = 0   Fees = 15.83

A leadership laboratory includes and provides cadets with leader/follower experiences.
Lchr = Lab Hrs = 0   Ot Hrs = 200 Fees = 6.83

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AMT0100C AERIAL ALTITUDE AND NAVIGATION SYSTEMS
(6) The student will study the theory of operation, maintenance, navigation, and repair of aerial altitude and navigation systems. The course will provide the student with the knowledge of navigation systems as used in aircraft operation. The course covers fundamentals of aerial navigation and their function to include removal, installation, and the tested operation of such systems. Student fee charged.
Lec.Hrs:15 Lab.Hrs:15 Cln.Hrs:0 Oth.Hrs:0 Fees:45.83

AMT0105C AIRCRAFT WINDSHIELD MAINTENANCE
(3) Students will acquire the ability to properly use a paint spray gun to apply various types of finishes to a variety of surfaces. The student will be able to apply trim lines and aircraft identification number, touch up paint defects, and identify and select aircraft finishing materials. Student fee charged.

AMT0106C ALTERNATORS AND GENERATORS
(3) The course covers theory and fundamental requirements for aircraft engines, basic parts of internal combustion engines, 2 stroke and 4 stroke cycle, power measurements and calculations, conversion of heat energy into mechanical energy, horsepower, piston displacement, compression ratios, types of horsepowers, crankcase assembly, emission control, engine performance, and cooling systems. The student will study engine assembly, cylinder and piston assemblies, and bearings used in reciprocating engines. Student fee charged.
Lec.Hrs:89 Lab.Hrs:107 Cln.Hrs:0 Oth.Hrs:0 Fees:221.83

AMT0320C ENGINE INSPECTION
(1) A thorough study of the theory of operation of turbine engines and the function of the related engine components such as compressors, fuel controls, fuel pumps, governors, turbines, etc. Corequisites: AMT0300, AMT0400, AMT0420, AMT0320. Course covers CESSNA, DUCHESSON, and other manufacturers’ recommendations. Student fee charged.

AMT0323C ENGINE PERFORMANCE TESTING
(1) A course of study which details the correct methods of engine removal and installation, inspection and run up testing, including the final adjustments according to FAA regulations and manufacturer’s recommendations. Student fee charged.
Lec.Hrs:10 Lab.Hrs:22 Cln.Hrs:0 Oth.Hrs:0 Fees:63.83

AMT0400C ENGINE INSTRUMENT SYSTEMS
(1) Students will have a knowledge of operation, installation, marking, and interpretation of powerplant instruments powered by or actuated by non-electrical means. They will be able to install, adjust, and calibrate instruments in accordance with FAA and manufacturer’s
recommendations. This course will provide experience in inspection, checking, servicing, troubleshooting, and repair of engine instrument systems. This course is taught.

AMT1120 AEROSPACE MATERIALS AND PROCESSES
(2 credits)
This course provides a comprehensive understanding of various materials, processing, and limitations as they apply to the certified student. Student fee charged.

AMT0431C LUXEUM SYSTEMS
(1 credit)
This course provides knowledge and skills needed to perform electrical repairs, installations, adjustments, and service. The subject area includes alternators, generators, voltage regulation, and paralleling of generators. The student will be introduced to the operational principles of auxiliary power units. Student fee charged.

AMT0430C ENGINE FUEL SYSTEMS
(1 credit)
This course provides students with the knowledge and skills needed in the operation, inspection, checking, troubleshooting, and repair of engine fuel detecting and extinguishing systems. Student fee charged.

AMT0450C ENGINE FUEL SYSTEMS (1)
Lec Hrs:12 Lab Hrs:17 Cln Hrs:0 Oth Hrs:0 Fees:$35.85
AMT0460C INDUCTION SYSTEMS
(1)
Given the student knowledge and experience needed to service and maintain induction systems, superchargers that are aircraft systems. Material covered includes controls, indicators, theory of operation and inspection criteria. Student fee charged.

AMT1010C FLUID LINES AND FITTINGS
(1)
Prepares the student to fabricate and install rigid and flexible lines and fittings with regard to bends, tools, and material. Student fee charged.

AMT1020C WEIGHT AND BALANCE
(1)
Familiarizes the student with the importance of weight and balance control, the procedures for accurately calculating weight and balancing aircraft, and the importance of preparing weight and balance data. The student will be able to select and apply the proper types of fuel covering, including the synthetics types, and use of proper materials to finish the material.

AMT1110C SHEET METAL STRUCTURES
(1)
Prepares the student with knowledge and skills needed to inspect, maintain, and repair sheet metal structures and components. The course provides the student an introduction to fiberglass, composite and other type non-metallic structural material and methods of construction using those materials. Student fee charged.

AMT1100C AIRCRAFT FIRE PROTECTION SYSTEMS
(1)
To provide the student with the knowledge and skills needed in the operation, inspection, checking, troubleshooting, and repair of engine flame detection and extinguishing systems. Student fee charged.

AMT1000C ENGINE FUEL SYSTEMS
(1)
Gives the student the knowledge and experience needed to service and maintain fuel systems, components and systems. Material covered includes filters, strainers, and fuel cavitation systems included in the fuel system. The course provides experience in detecting, identifying, and selecting filters, as well as, inspecting, checking, servicing, troubleshooting and repair of the fuel system and components. Lab fee charged.

AMT0410C FLUID LINES AND FITTINGS
(1)
AMT0420C ENGINE ELECTRICAL SYSTEMS & APUS
(2)
This course provides knowledge and skills necessary to perform electrical repairs, installations, adjustments, and service. The subject area includes alternators, generators, voltage regulation, and paralleling of generators. The student will be introduced to the operational principles of auxiliary power units. Student fee charged.

AMT0440C IGNITION SYSTEMS
(1 credit)
Students will have knowledge of the operation, repair, inspection, and service of reciprocating and jet power plants and aircraft systems. They will be able to overhaul and troubleshoot the various components of each system. Student fee charged.

AMT0450C ENGINE FUEL SYSTEMS
(1 credit)
Student is provided with knowledge and skills needed to maintain fuel system components. Student will be able to inspect, service, troubleshoot and repair engine fuel system components. Student fee charged.

AMT0460C ELECTRIC SYSTEMS
(1 credit)
Provides a comprehensive knowledge of the purpose and function of lubricants and lubrication system for powerplant operation. Provides experience in detecting, identifying, and selecting lubricants, as well as, inspecting, checking, servicing, troubleshooting and repair of the lubrication system and components. Lab fee charged.

AMT1001C BASIC ELECTRICITY
(2)
Basic electricity. The study of laws and theory of electrical circuits, circuits, components, and circuits, to include practical knowledge of the different types of complex circuitry found in modern aircraft. Lab fee charged.

AMT1010C AIRCRAFT DRAWINGS
(1)
This course covers aircraft drawings, care and use of blueprints, interpretation of free hand sketches of repairs, and analysis of electrical wiring diagrams. The course is taught.

AMT1011C ELECTRICITY
(1)
Reviews principles of mathematical functions and studies their application to aircraft and powerplant maintenance operations. Student fee charged.

AMT1081C FAR'S, FORMS & PRIVILEGES
(1)
Familiarizes the student with FAA regulations, advisory circulars, and other government and industry regulations, proper terminology and procedures for the execution of log books and major repair and alteration forms, and privileges and limitations as they apply to the certified mechanic. Student fee charged.

AMT1090C BASIC PHYSICS
(1)
Provides an understanding of energy and matter and how these interrelationships apply to aircraft maintenance. Student fee charged.

AMT1100C AIRCRAFT WOOD STRUCTURES
(1)
Aircraft wood structures are covered in this section and familiarizes the student with the different types of wood used in aircraft structures as well as methods of repair to wood structures. Student fee charged.

AMT1110C AIRCRAFT WOOD STRUCTURES
(1)
Aircraft wood structures are covered in this section and familiarizes the student with the different types of wood used in aircraft structures as well as methods of repair to wood structures. Student fee charged.
AMT120 HYDRAULIC AND PNEUMATICS SYSTEMS
(2)
The student will study the theory of operation, maintenance requirements, and adjustments of various hydraulic and pneumatic systems. The course will provide the student with the knowledge of pneumatics as used in aircraft operation. The course covers fluid hydraulics, identifies the various actuating units, types of seals, pumps, and differences between hydraulics and pneumatics. 
Lec Hrs:30 Lab Hrs:0 Cln Hrs:0 Other Hrs:0 Fees:66.83
AMT1220 CABIN ATMOSPHERE CONTROL SYSTEMS
(1)
This unit covers the various systems used to condition air and cabin pressurization as well as practical experience with fluids used, including pressurization, recharging, troubleshooting, and servicing the oxygen system.
Student fee charged.
Lec Hrs:20 Lab Hrs:30 Cln Hrs:0 Other Hrs:0 Fees:66.83
AMT1230 AIRCRAFT INSTRUMENTS SYSTEMS
(1)
A familiarity of aircraft instruments and their function to include removal, installation, and the installed testing of such instruments.
Lec Hrs:15 Lab Hrs:20 Cln Hrs:0 Other Hrs:0 Fees:66.83
AMT1240 COMMUNICATIONS AND NAVIGATION SYSTEMS
(1)
This course introduces the student with basic auto pilot operation and familiarizes him/her with the installation requirements and use of the various communication and navigation systems. 
Lec Hrs:25 Lab Hrs:0 Cln Hrs:0 Other Hrs:0 Fees:66.83
AMT1250 AIRCRAFT FUEL SYSTEMS
(1)
The student is provided with the knowledge and skills needed to maintain fuel systems and fuel system components. He/she will be able to inspect, check, maintain, repair fuel system components, fuel dump systems, fuel management and transfer systems, and perform refueling operations.
Lec Hrs:17 Lab Hrs:23 Cln Hrs:0 Other Hrs:0 Fees:66.83
AMT1260 AIRCRAFT ELECTRICAL SYSTEMS
(1)
The types and characteristics of aircraft electrical circuits and components are compared and evaluated. Advanced electrical systems as used in corporate and airline aircraft are studied. The course covers troubleshooting and repair of AC and DC electrical systems and equipment.
Lec Hrs:45 Lab Hrs:50 Cln Hrs:0 Other Hrs:0 Fees:66.83
AMT1270 POSITION AND WARNING SYSTEMS
(1)
This course presents the student with the inspection, servicing and maintaining of position and warning systems. Included in this area are navigation lights, beacons, and lights indicating the position of various aircraft components.
Lec Hrs:10 Lab Hrs:18 Cln Hrs:0 Other Hrs:0 Fees:66.83
AMT1285 ICE, RAIN & FIRE PROTECTION
Introduces the student to the basics of ice and rain control as it relates to aircraft surfaces, propellers, windshields, and other components.
Lec Hrs:48 Lab Hrs:50 Cln Hrs:0 Other Hrs:0 Fees:66.83
A basic course in the exploration of color theories, color systems, and color relativity in architectural design. Architectonic principles are applied to further define the organization, form, circulation and function of architectural space in buildings. Prerequisite: ART1300C ARC2201
Pre or Corequisite: ARC22461
Lec Hrs=16 Lab Hrs=96 Cln Hrs=0 Oth Hrs=32 Fees=57.00

ARCHITECTURAL DESIGN IV
This course covers the development of architectural design. Conceptual ideas from program requirements and contextual factors as generators of architectural design. Architectonic principles of enclosure, massing, articulation of form, proportions, geometry, scale and structure are applied to the development of imagery for building design. A portfolio is created from each student’s best work for the purpose of transfer admission to a university program. Prerequisite: ARC2053C
Pre or Corequisite: ARC1701
Lec Hrs=16 Lab Hrs=96 Cln Hrs=0 Oth Hrs=32 Fees=57.00

ARCHITECTURAL DESIGN II
This course covers two and three-dimensional design fundamentals, architectural principles and architectural design skills. Techniques of model making are learned through explorations in defining and understanding architectural space. Prerequisite: ARC1125C
Lec Hrs=32 Lab Hrs=32 Cln Hrs=0 Oth Hrs=0 Fees=37.00

ARCHITECTURAL DESIGN I
This course covers two and three-dimensional design fundamentals, architectural principles and architectural design skills. Techniques of model making are learned through explorations in defining and understanding architectural space. Prerequisite: ARC1125C
Lec Hrs=32 Lab Hrs=32 Cln Hrs=0 Oth Hrs=0 Fees=37.00

ART 1300C DRAWING I
Three-dimensional study of form, principles of organization and the element of design fundamental for creative work in 3-D visual arts. Prerequisite: ARC2053C
L Hrs=48 Lab Hrs=96 Cln Hrs=0 Oth Hrs=0 Fees=43.00

ART 2500C PAINTING I
Still life and landscape composition utilizing wet and dry drawing media. Prerequisite: ARC2501C
Lec Hrs=0 Lab Hrs=96 Cln Hrs=0 Oth Hrs=0 Fees=4.00

ART 2501C PAINTING II
A creative exploration of oil, acrylic techniques and/or water media with an emphasis on composition. Prerequisite: ART2500C
Lec Hrs=0 Lab Hrs=96 Cln Hrs=0 Oth Hrs=0 Fees=4.00

ART 2623C 3D COMPUTER MODELING FOR ANIMATION (3)
This course is an introductory level course in 3D animation. Students create complex animations which are carefully planned through storyboarding techniques. Students will complete 3D animation projects and follow the 3D animation process, from concepting and applying various features of the 3D animation software package. Prerequisite: ART1500C
Lec Hrs=52 Lab Hrs=61 Cln Hrs=0 Oth Hrs=0 Fees=35.00

ART 2750C CERAMICS I
A general survey of historical and contemporary American and non-American pottery Fundamentals in the establishment of the elements of design and practical aspects of ceramic construction and production. Prerequisite: ART1201C ARC1300C
Lec Hrs=9 Lab Hrs=96 Cln Hrs=0 Oth Hrs=0 Fees=31.00

ART 2750C CERAMICS II
A study of advanced techniques in ceramics synthesizing basic skills with more advanced concepts and techniques of forming clay, surface decoration, glazing and firing. Prerequisite: ART2750C
Lec Hrs=9 Lab Hrs=96 Cln Hrs=0 Oth Hrs=0 Fees=35.00

ART 2800C 3D COMPUTER MODELING FOR ANIMATION (3)
This course is an introductory level course in 3D animation. Students create complex animations which are carefully planned through storyboarding techniques. Students will complete 3D animation projects and follow the 3D animation process, from concepting and applying various features of the 3D animation software package. Prerequisite: ART1500C
Lec Hrs=52 Lab Hrs=61 Cln Hrs=0 Oth Hrs=0 Fees=35.00

ART 2801C ART APPRECIATION
Art Appreciation is a course for non-art majors that introduces the foundations of art, including style, form, media, meaning, and history. Prerequisite: ARC1301C
Lec Hrs=64 Lab Hrs=64 Cln Hrs=0 Oth Hrs=0 Fees=0.00

ART 2805C WORLD ART PREHISTORY TO GOTHIC
Art History: Prehistory to Gothic is a chronological survey and analysis of art from prehistory to approximately 1400, placing major works in a historical and stylistic context and emphasizing world art. Prerequisite: ARC1800C
Lec Hrs=48 Lab Hrs=96 Cln Hrs=0 Oth Hrs=0 Fees=0.00

ART 2805C WORLD ART RENAISSANCE TO MODERN
Art History: Renaissance to Modern is a chronological survey and analysis of world art from Renaissance to Modern, placing major works in a historical and stylistic context and emphasizing European and Modern art. Prerequisite: ARC1800C
Lec Hrs=48 Lab Hrs=96 Cln Hrs=0 Oth Hrs=0 Fees=0.00

ART 2825C SPANISH ART HISTORY
Spanish Art History includes the study of outstanding examples of architecture, painting and sculpture emphasizing the early Roman and Moorish contributions as well as the great Spanish painters of the Renaissance and the 19th and 20th Centuries. Included in this course are cultural trips to museums, galleries and monuments in Seville. Prerequisite: ARC2825C
Lec Hrs=48 Lab Hrs=96 Cln Hrs=0 Oth Hrs=0 Fees=0.00

ART 2900C BEGINNING PRINTMAKING
A study of the processes and techniques in intaglio, polymer light-sensitive and relief printmaking. Prerequisite: ART1201C ART1800C
Lec Hrs=0 Lab Hrs=54 Cln Hrs=0 Oth Hrs=0 Fees=44.00

ART 2950C PAINTING I
An introduction to traditional techniques and composition applied to oil painting and acrylic media. Prerequisite: ART1201C ART1800C
Lec Hrs=0 Lab Hrs=54 Cln Hrs=0 Oth Hrs=0 Fees=44.00

ART 2950C PAINTING II
A study of advanced techniques and composition applied to oil painting and acrylic media. Prerequisite: ART1201C ART1800C
Lec Hrs=0 Lab Hrs=54 Cln Hrs=0 Oth Hrs=0 Fees=44.00

ART 3230C DIGITAL MEDIA
A basic course in the exploration of color theories, color systems, and color relativity in architectural design. Architectonic principles are applied to further define the organization, form, circulation and function of architectural space in buildings. Prerequisite: ARC2201
Pre or Corequisite: ARC22461
Lec Hrs=16 Lab Hrs=96 Cln Hrs=0 Oth Hrs=32 Fees=57.00

ART 3250C ARCHITECTURAL DESIGN IV
This course covers the development of architectural design. Conceptual ideas from program requirements and contextual factors as generators of Architectonic principles of enclosure, massing, articulation of form, proportions, geometry, scale and structure are applied to the development of imagery for building design. A portfolio is created from each student’s best work for the purpose of transfer admission to a university program. Prerequisite: ARC2053C
Pre or Corequisite: ARC1701
Lec Hrs=16 Lab Hrs=96 Cln Hrs=0 Oth Hrs=32 Fees=57.00

ART 3250C ARCHITECTURAL DESIGN III
This course emphasizes the analysis and resolution of the natural and man-made environmental context as a generator of architectural design ideas. The analysis of architectural building programs and
A fine arts study of advanced techniques in ceramics emphasizing conceptual and technical techniques of forming clay on the wheel, surface decoration, glazing and firing. Prerequisite: ART2756C

Art2756C HAND BUILDING

Fine arts ceramics course to develop hand-building through various projects which emphasize technique, creativity and the personal expression. Includes advanced concepts and techniques of forming clay, surface decoration, glazing and firing. Prerequisite: ART2756C

Art2901 INDEPENDENT STUDY

A course designed to establish a framework for future self-learning. Students will shape the course to fit their needs by planning activities with a faculty advisor. Prerequisite may be considered by the Art Department Head. Prerequisite: ART210C ART215C ART3160C

Art2906 INDEPENDENT STUDY: CERAMICS

A directed, independent studio course available to both majors and non-majors who wish to investigate a particular problem related to the ceramics process. Prerequisite: ART2756C ART2751C

Art2907 INDEPENDENT STUDY: DRAWING

A directed, independent studio course available to both majors and non-majors who wish to investigate a particular problem related to the drawing process. Instructor's approval required. Prerequisite: ART150C ART2552C

Art2908 INDEPENDENT STUDY: SCULPTURE

A directed, independent studio course available to both majors and non-majors who wish to investigate a particular problem related to the sculpture process. Prerequisite: ART120C ART2701C

Art2909 INDEPENDENT STUDY: PAINTING

A directed, independent studio course available to both majors and non-majors who wish to investigate a particular problem related to the painting process. Prerequisite: ART250C ART2501C

Art2952C ART SPECIAL TOPICS: SPECIFY MEDIUM

A studio course centered on a medium of art and topics of current interest. Media, topics or focus may vary from semester to semester. Special Topics credit hours are not automatically transferable. Transfer credit is the prerogative of the receiving institution. Instructor's permission. Prerequisite: ART2756C

Art2952C SPECIAL TOPIC: CERAMICS

A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: private pilot's license or instructor's permission. Prerequisite: ART120C

Art2949 CO-OP WORK EXPERIENCE

A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: ART120C ART210C ART3160C

ASC1210 AVIATION WEATHER

An introduction to the laws, regulations and practices governing weather and its relation to flight. Prerequisite: ART2750C

ASC2320 AIRCRAFT ENGINES, STRUCTURES, AND SYSTEMS

A comprehensive understanding and enhanced awareness of aviation safety. Class will participate in analyzing the probable cause of selected aviation accidents, review detailed analyses of accidents related to topics of human factors, runway incursions, weather, mid-air collisions and mechanical and maintenance issues. Federal agencies which regulate aviation with emphasis on those concerned with safety will also be studied. Prerequisite: ART120C ART2750C

ASC2394 AVIATION SAFETY

A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Course or Department approval. Students will be assigned specific course prerequisites related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval.

ASC2472 HUMAN FACTORS IN FLIGHT AND AIRCRAFT OPERATIONS

An analysis of the physical laws and aerodynamic principles which govern the flight and performance of aircraft. Students will learn the factors affecting aircraft performance, weight and balance, and aircraft instruments affecting flight operational considerations of controllable pitch propellers, retractable gear, weather, and precision maneuvers. Prerequisite: private pilot's license or instructor's permission. Prerequisite: ART120C

ASC610 AIRCRAFT ENGINES, STRUCTURES, AND SYSTEMS

Aircraft engine types and theory of operation, materials and construction methods of aircraft structures operations of hydraulic, electrical, fuel, pressurization, and anti-icing, heating and instrument systems, including sources of power for their operation. Prerequisite: private pilot's license or instructor's permission. Prerequisite: ART120C

ASC2494 CO-OP WORK EXPERIENCE

A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Course or Department approval. Students will be assigned specific course prerequisites related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval.

ASC2494 AVIATION SAFETY

A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Course or Department approval. Students will be assigned specific course prerequisites related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval.

ASC2494 AVIATION WEATHER

An introduction to the laws, regulations and practices governing weather and its relation to flight. Prerequisite: ART2750C

ASC2500 AIRCRAFT ENGINES, STRUCTURES, AND SYSTEMS

An analysis of the physical laws and aerodynamic principles which govern the flight and performance of aircraft. Students will learn the factors affecting aircraft performance, weight and balance, and aircraft instruments affecting flight operational considerations of controllable pitch propellers, retractable gear, weather, and precision maneuvers. Prerequisite: private pilot's license or instructor's permission. Prerequisite: ART120C

ASC2600 AIRCRAFT ENGINES, STRUCTURES, AND SYSTEMS

Aircraft engine types and theory of operation, materials and construction methods of aircraft structures operations of hydraulic, electrical, fuel, pressurization, and anti-icing, heating and instrument systems, including sources of power for their operation. Prerequisite: private pilot's license or instructor's permission. Prerequisite: ART120C

ASC2110 NAVIGATION SCIENCE I

In-plane navigation techniques for the solution of advanced altitude and dead reckoning problems. Functioning, capabilities, and limitations of radio navigation systems. Prerequisite: private pilot's license or instructor's permission. Prerequisite: ART120C

ASC2120 NAVIGATION SCIENCE II

Methods for computing altitude, horizontal and vertical fixes, and altitude and distance. Related to topics of human factors, runway incursions, weather, mid air collisions and mechanical and maintenance issues. Federal agencies which regulate aviation with emphasis on those concerned with safety will also be studied. Prerequisite: ART120C ART2750C

ASC2200 AVIATION LAW AND REGULATIONS

An introduction and analysis of the regulations and laws governing aircraft and airline operations, incorporating aviation safety. Topics of discussion include the major regulations to include: Federal Aviation Regulations (FARS) 77, 108, 121, 135, 139, 159, 160, 191, and NTSB 830. These topics will include navigable airspace, airport noise and the applicable Advisory Circulars (AC) that explains each. Additionally, those topics of discussion will include an overview of how the regulations are governed and administered, compliance with overview of how the regulations are governed and administered, compliance with regulations, non-compliance, and management of government regulations. Prerequisite: ART120C ART2750C

ASC235A MAJOR REGULATIONS

A study of the major regulations involved with flight and those affecting air traffic controllers. Students will learn significant aero-medical factors common to the aviation environment and the decision making process. Students will apply knowledge gained through the course, NTSB accident reports outlining the causes and describing ways an accident could have been prevented. Prerequisite: ART120C ART2750C

ASC2500 AIRCRAFT ENGINES, STRUCTURES, AND SYSTEMS

Aircraft engine types and theory of operation, materials and construction methods of aircraft structures operations of hydraulic, electrical, fuel, pressurization, and anti-icing, heating and instrument systems, including sources of power for their operation. Prerequisite: private pilot's license or instructor's permission. Prerequisite: ART120C

ASC2680 AVIATION SAFETY

A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Course or Department approval. Students will be assigned specific course prerequisites related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval.

ASC2680 AVIATION WEATHER

An introduction to the laws, regulations and practices governing weather and its relation to flight. Prerequisite: ART2750C

ASC2700 AVIATION SAFETY

A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Course or Department approval. Students will be assigned specific course prerequisites related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval.

ASC2700 AVIATION WEATHER

An introduction to the laws, regulations and practices governing weather and its relation to flight. Prerequisite: ART2750C

ASC2800 AVIATION LAW AND REGULATIONS

An introduction and analysis of the regulations and laws governing aircraft and airline operations, incorporating aviation safety. Topics of discussion include the major regulations to include: Federal Aviation Regulations (FARS) 77, 108, 121, 135, 139, 159, 160, 191, and NTSB 830. These topics will include navigable airspace, airport noise and the applicable Advisory Circulars (AC) that explains each. Additionally, those topics of discussion will include an overview of how the regulations are governed and administered, compliance with overview of how the regulations are governed and administered, compliance with regulations, non-compliance, and management of government regulations. Prerequisite: ART120C ART2750C

ASC2972 HUMAN FACTORS IN FLIGHT AND AIR TRAFFIC CONTROL

A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Course or Department approval. Students will be assigned specific course prerequisites related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval.

ASC2972 AVIATION SAFETY

A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Course or Department approval. Students will be assigned specific course prerequisites related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval.

ASC2972 AVIATION WEATHER

A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Course or Department approval. Students will be assigned specific course prerequisites related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval.

ASC2972 AVIATION LAW AND REGULATIONS

An introduction and analysis of the regulations and laws governing aircraft and airline operations, incorporating aviation safety. Topics of discussion include the major regulations to include: Federal Aviation Regulations (FARS) 77, 108, 121, 135, 139, 159, 160, 191, and NTSB 830. These topics will include navigable airspace, airport noise and the applicable Advisory Circulars (AC) that explains each. Additionally, those topics of discussion will include an overview of how the regulations are governed and administered, compliance with overview of how the regulations are governed and administered, compliance with regulations, non-compliance, and management of government regulations. Prerequisite: ART120C ART2750C
the Solar System formation theories. The Moon, Earth, and the planets and evaluating knowledge gained from space probes of the Sun, expected to evaluate current and expected modern observatories. Students are in astronomy from the ancient astronomers to the evolution of the solar system, stars, and culture.

AST 1002 ASTRONOMY LABORATORY
AST 1002L is a laboratory which allows students to collect and analyze data on a variety of star systems and galaxies beyond the solar system. This course will be repeated for a maximum of 3 semester hours to meet a 3 semester hour elective requirement.

AST 1003 SCIENTIFIC SEARCH FOR LIFE
This interdisciplinary course examines the nature and history of life on earth, possible life-favoring environments within the solar system and in the detecting life in the universe at large. Topics of discussion include the evolution and biochemistry of life, the formation of organic compounds in the solar system and other extraterrestrial environments, physical conditions, and the strategies for detecting intelligent life in the universe.

AST 1010 PRIMARY FLIGHT
This course provides the flight training and experience required by the Federal Aviation Regulations (FAA) for a Private Pilot Certificate. Student must obtain FAA Private Pilot Certificate in order to receive credit for this course. It includes the study of flight training devices at South Campus.

AST 1020 HORIZONS IN ASTRONOMY
AST 1020 is an introductory course that outlines the origins, characteristics, and evolution of the solar system, stars, and galaxies and integrates this basic astronomical information in astronomy from the ancient astronomers to the modern observers. Students are expected to evaluate astronomical knowledge gained from space probes of the Sun, expected to evaluate current and expected modern observatories. This course will be repeated for a maximum of 3 semester hours to meet a 3 semester hour elective requirement.

AST 1030 ASTRONOMY OF THE SOLAR SYSTEM
AST 1030 is an astronomy course outlining the knowledge gained from space probes of the Sun, Moon, Mars, and the planetarium. Students will study the Sun, the Moon, Earth, and the planets and evaluating knowledge gained from space probes of the Sun, expected to evaluate current and expected modern observatories. This course will be repeated for a maximum of 3 semester hours to meet a 3 semester hour elective requirement.

AST 1040 ASTRONOMY OF STARS AND GALAXIES
AST 1040 is an astronomy course outlining the important astronomical entities (e.g., stars, gas, dust, galaxies) beyond the solar system and their evolution in terms of the quantum mechanical effects in the macro-world. The student will learn about the detecting life in the universe at large.

ATF 2100 COMMERCIAL FLIGHT II
This course continues the training and experience of Commercial Flight I. Together with ATF2200 and ATF2500, it provides the total flight time required to qualify for the FAA Commercial Pilot Certificate with instrument rating under Federal Aviation Regulations part. During this course, the student completes coursework to obtain the instrument rating and begins commercial pilot training. Flight training fees are paid directly to the College in advance. Prerequisite: Successful completion of ATF2100.

ATF 2210 COMMERCIAL FLIGHT III
This course is the final in the series of courses designed to provide the aeronautical experience for a FAA Commercial Pilot Certificate with instrument rating under Federal Aviation Regulations. During this course the student achieves qualification in complex air-craft. In order to receive credit for this course, the student must have earned a FAA Commercial Pilot Certificate. Flight training fees are paid directly to the college in advance.

ATF 2300 MULTI ENGINE TRANSITION
This course provides the flight training and experience required to obtain an FAA multi-engine rating. In order to receive credit for this course, the student must have earned a FAA multi-engine rating. Flight training fees are paid directly to the college in advance.

ATF 2400 FLIGHT INSTRUCTOR TRAINING
This course provides the flight and ground instruction to train a commercial pilot to be a flight instructor. Course consists of the following courses: English, reading and math, and FAA flight instructor certification. In order to receive credit for this course, the student must have earned an FAA flight instructor certificate. Flight training fees are paid directly to the college in advance.

ATF 2500 FLIGHT SIMULATOR TRAINING
This course provides the flight and ground instruction to train a commercial pilot to be a flight instructor. Course consists of the following courses: English, reading and math, and FAA flight instructor certification. Flight training fees are paid directly to the college in advance.

ATT 2110 ENVIRONMENT OF THE AIR TRAFFIC CONTROLLER
This course provides an understanding of the Air Traffic Controller's mission and working environment and presents a candid view of the Air Traffic Controller as a language, tools and profession.

AST 1100 AMERICAN SIGN LANGUAGE I
AST 1100 is an introductory course that builds upon the foundation laid in ASL I. This course may be taken as an elective in any of the aviation programs. It includes elementary aerodynamics, the major components of airplanes and their functions, the pertinent Federal Aviation Administration (FAA) regulations and basic airspace, aircraft performance and basic aerodynamics. This course consists of 5 hours of lecture and 10 hours of flight training devices at South Campus.

ASC1100 will prepare students for the FAA Private Pilot (airplane) Computerized Knowledge Exam. Professional Pilot Testing and Aviation Questionnaires. This course consists of 5 hours of lecture and 10 hours of flight training devices at South Campus.

ASC1100 will prepare students for the FAA Private Pilot (airplane) Computerized Knowledge Exam. Professional Pilot Testing and Aviation Questionnaires. This course consists of 5 hours of lecture and 10 hours of flight training devices at South Campus.

ATT 1100 AERONAUTICAL SCIENCE
An introduction to the theory of flight, this course is required for all aviation programs. It includes elementary aerodynamics, the major components of airplanes and their functions, the pertinent Federal Aviation Administration (FAA) regulations and basic airspace, aircraft performance and basic aerodynamics. This course consists of 5 hours of lecture and 10 hours of flight training devices at South Campus.
Fort Lauderdale Executive Airport or Tamiami—operating in the vicinity of an airport or a devices to provide ATC services to aircraft

This course covers the JO7110.65 Air Traffic Control Manual. The course will be administered by an FAA examiner the last week of

ATOM260 GENERAL AVIATION MARKETING AND MANAGEMENT

This course is designed to provide an overview of the general aviation industry including its history and important role within the air traffic control sector of the economy. The varied uses of general aviation aircraft and the management and marketing role of the fixed base operators are thoroughly explored. Included are the basic marketing concepts and procedures involved in the sale of general aviation aircraft and components to private industry and government. Particular emphasis will be placed on the management of corporate/business aircraft and community airports.

Aircraft operating in the vicinity of an airport or a devices to provide ATC services to aircraft

This course covers the JO7110.65 Air Traffic Control Manual. The course will be administered by an FAA examiner the last week of

ATOM260 GENERAL AVIATION MARKETING AND MANAGEMENT

This course is designed to provide an overview of the general aviation industry including its history and important role within the air traffic control sector of the economy. The varied uses of general aviation aircraft and the management and marketing role of the fixed base operators are thoroughly explored. Included are the basic marketing concepts and procedures involved in the sale of general aviation aircraft and components to private industry and government. Particular emphasis will be placed on the management of corporate/business aircraft and community airports.

Aircraft operating in the vicinity of an airport or a devices to provide ATC services to aircraft
AVS092C  AVISIONS COMMUNICATION SYSTEMS  (180 HRS)
The purpose of this program is to prepare students for employment as radio mechanics (85114650) and as avionics technicians (823.281-010). The course content includes, but is not limited to, troubleshooting, repair and installation of air-borne radio communications, radio navigation, and radar equipment systems in accordance with regulatory and institutional standards. Also included is instruction in basics of AM and FM transmitters and receivers and avionics equipment. Skills preparation for passing licensing/certification tests required by industry forms an integral part of the curriculum.
Lec/Hrs=90 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=48.00

AVS093C  NAVIGATION SUPPORT SYSTEMS ITEMS  (180 HRS)
The purpose of this program is to prepare students for employment as radio mechanics (85114650) and as avionics technicians (823.281-010). The course content includes, but is not limited to, troubleshooting, repair and installation of air-borne radio communications, radio navigation, and radar equipment systems in accordance with regulatory and institutional standards. Also included is instruction in basics of AM and FM transmitters and receivers and avionics equipment. Skills preparation for passing licensing/certification tests required by industry forms an integral part of the curriculum.
Lec/Hrs=90 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=48.00

BCN2560  MECHANICAL AND ELECTRICAL SYSTEMS  (5)
Acquaints students with mechanical and electrical equipment commonly used in high rise and commercial buildings. Provides fundamentals of air conditioning, heating, lighting, communicating and wiring for electrical equipment. Includes a study of preparation with AutoCAD and ArchiCAD as such as solar heating.
Lec/Hrs=48 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

BCN261C  CONSTRUCTION ESTIMATING I  (4)
A study of the contractual responsibilities, job planning, scheduling, selection of equipment, methods of construction and safety standards. The student is required to be familiar with takeoff from a set of plans to do pricing of labor and materials.
Prerequisite: BCN1770
Lec/Hrs=16 Lab/Hrs=48 Cln/Hrs=0 Oth/Hrs=0 Fees=10.00

BC1776  CONSTRUCTION DOCUMENTS  (2)
This is designed to familiarize students with documents used in the construction industry, facets of construction documents, contractual relationships, the relationship of documents to each phase of construction and an overview of the Construction Industry Institute’s (CSI) 22 divisions. At the completion of the course, students will have gained the proficiency necessary for taking and reading construction documents. Also included is instruction in basic AutoCAD, MicroStation and/or powerplant training, electronics training, prevoice experience.
Lec/Hrs=90 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=60.00

BC1742  BUILDING CONSTRUCTION LAW  (2)
A study of the legal aspects of construction contracts and the responsibilities arising therein. The principles and responsibilities of various professionals are presented.
Lec/Hrs=32 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

BC1767  OSHA STANDARDS  (1)
This course is designed to give students an awareness of OSHA regulations and the knowledge to improve the overall safety on a job site. At the successful conclusion of the course, students will receive OSHA certification.
Lec/Hrs=16 Lab/Hrs=32 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

BC1770  CONSTRUCTION ESTIMATING II  (2)
An analysis and determination of construction costs. Concludes with the classification of materials, labor, and subcontracted work within the smallest marketable unit. Development of a simple estimate for a residential structure.
Lec/Hrs=32 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

BC2590  MIP PLANS INTERPRETATION  (2)
This course is designed to develop the student’s ability to quickly interpret working drawings. Emphasis is on the details and specifications of mechanical, electrical, and plumbing plans.
Lec/Hrs=32 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

BC2710  INFRASTRUCTURE COORDINATION  (2)
This course provides the student with an overview of the various agencies related to the construction process and emphasis is on the need for and the manner of coordinating with those agencies. Students will receive exposure to the variety of permits, learn to interface with the agencies in order to coordinate the permit process, and understand how this coordinates with those permits.
Lec/Hrs=32 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

BC2760  BUILDING CODES AND REGULATIONS  (3)
A rigorous review and study of the South Florida Building Code as it applies to structures and safety. For professionals employed as inspectors, architects, engineers and contractors.
Lec/Hrs=48 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

BC278C  MECHANICAL ELECTRICAL PLUMBING DRAWING  (5)
This course will be on the development of advanced drafting techniques while gaining an understanding of more complex construction procedures for commercial and institutional buildings as it relates to mechanical, electrical, and plumbing. Advanced ArchiCAD, AutoCAD &/or MicroStation techniques will be used extensively for preparing drawings.
Lec/Hrs=32 Lab/Hrs=32 Cln/Hrs=0 Oth/Hrs=10.00 Fees=18.00

BC2941  BUILDING CONSTRUCTION FIELD EXPERIENCE  (1)
This course is designed to provide students with field experiences, including shadowing and job site visits which help the student understand the organizational structure of a variety of construction companies and how the companies function.
Lec/Hrs=0 Lab/Hrs=32 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

BOT2010  GENERAL BOTANY  (1)
Course designed to treat entire plant kingdom with emphasis on structure, function, and genetics of flowering plants. Focus on the cellular and tissue structure of both vascular and non vascular plants are studied. Associated physiological and chemical effects as related to function are emphasized. Placement by Testing Department or Pre or Corequisite: BOT1010
Lec/Hrs=48 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

BOT2050, GENERAL BOTANY LABORATORY  (1)
Laboratory experiments and field trips to accompany BOT2010. Upon successful completion of this course, the students should be able to demonstrate knowledge of the plant kingdom through prescribed activities that focus on morphology, taxonomy, anatomy and physiology of selected representative species. Dissection exercises included.
Pre or Corequisite: BOT2010
Lec/Hrs=0 Lab/Hrs=8 Cln/Hrs=0 Oth/Hrs=0 Fees=99.00

BOT2800  PLANTS AND PEOPLE  (5)
This course will emphasize the role of plants in the development of civilizations, and the influence of plants on world history, politics, economics and culture. Will survey important plants and plant products from different cultures around the world.
Lec/Hrs=48 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

BRI000  BROWARD FUTURES WEB CT  (1)
BROWARD FUTURE STUDENTS ACCESSING WEB CT
Lec/Hrs=0 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

BSC1005  GENERAL BIOLOGY  (5)
Course designed to give students an understanding of principles of Biology, while focusing on the nature and activities of living organisms. Course primarily for non-science majors (see BSC1005L). Placement by Testing Department or Pre or Corequisite: BCT2941L
Lec/Hrs=48 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

BSC1005L  GENERAL BIOLOGY LABORATORY  (1)
Two hours of laboratory weekly which provides hands on activities that develop basic laboratory skills while reinforcing basic concepts in biology. Dissection exercises may be a component of this course.
Pre or Corequisite: BSC1005
Lec/Hrs=0 Lab/Hrs=32 Cln/Hrs=0 Oth/Hrs=0 Fees=22.00

BSC2010  INTRODUCTION TO BIOLOGY I  (3)
This course is the first of a two-course sequence introducing science majors to biological principles including cell structure, function, communication, reproduction, evolution, biochemistry and metabolism, classical and molecular genetics, and genetic engineering. Upon successful completion of this course, the students will be able to describe the characteristics of life, describe structure, function, and communication of cells, distinguish mitosis and meiosis, describe cell energetics, photosynthesis and respiration, solve genetics problems, and demonstrate a familiarity in genetic engineering. Three hours lecture per week.
Pre or Corequisite: BSC2010L
Lec/Hrs=48 Lab/Hrs=0 Cln/Hrs=0 Oth/Hrs=0 Fees=0.00

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BSC2086L, INTRODUCTION TO BIOLOGY I LABORATORY

This laboratory course is the first of a two-course sequence introducing students to biological principles including cell structure and function, cell reproduction, biochemistry and cell metabolism, classification of multicellular and single-celled organisms, and genetic engineering. Three hours laboratory per week.
Pre or Corequisite: BSC2010H
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=71.00

BSC2010H, INTRODUCTION TO BIOLOGY II

This course is the second of a two-course sequence introducing students to biological principles including a study of the diversity of organisms, evolution and population dynamics, and ecology. Three hours lecture per week.
Pre or Corequisite: BSC2010L
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

BSC2011L, INTRODUCTION TO BIOLOGY II LABORATORY

This course is the second of a two-course sequence introducing students to biological principles including a study of the diversity of organisms, evolution and population dynamics, and ecology. Dissection exercises included. Special fee charged.
Pre or Corequisite: BSC2010L
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=75.00

BSC2085, HUMAN ANATOMY AND PHYSIOLOGY I

A survey of the structure, function, and chemistry of the human body considering the following topics: chemistry, body organization, the cell, tissues, membranes, glands, the integumentary system, the skeletal system, the muscular system, the nervous system, and the special senses. 3 hours lecture per week.
Pre or Corequisite: BSC2085L
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

BSC2085L, HUMAN ANATOMY AND PHYSIOLOGY I LABORATORY

A survey of the structure, function, and chemistry of the human body considering the following topics: chemistry, body organization, the cell, tissues, membranes, glands, the integumentary system, the skeletal system, the muscular system, the nervous system, and the special senses. 3 hours lecture per week.
Pre or Corequisite: BSC2085
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=18.00

BSC2086, HUMAN ANATOMY AND PHYSIOLOGY II

A continuation of the Anatomy and Physiology sequence, including the following topics: the circulatory system, the respiratory system, the digestive system, the urinary system, fluid and electrolytes and the reproductive system. 3 hours lecture per week.
Pre or Corequisite: BSC2086L
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

BSC2086L, HUMAN ANATOMY AND PHYSIOLOGY II LABORATORY

Laboratory experiments coordinated with BSC1086, including microscope observation, study of anatomic and histologic sections and dissection. Dissection exercises included.
Pre or Corequisite: BSC2086
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=39.00

BSC2421L, INTRODUCTION TO BIOTECHNOLOGY LABORATORY

This lecture based course provides an introduction to concepts and principles associated with current accepted biotechnological practices in the areas of laboratory safety cell culture techniques, laboratory skills (measurements and calculations, preparation of solutions, use of various instruments) and microscopy. In addition, methods of DNA extraction, amplification, gene cloning, nucleic acids, and protein electrophoresis and fingerprinting will be covered.
Pre or Corequisite: BSC2010S BSC1005L
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

BSC2421L, INTRODUCTION TO BIOTECHNOLOGY LABORATORY

This laboratory course provides hands-on experience in basic and common biotechnology laboratory techniques in the areas of laboratory safety, cell culture techniques, laboratory skills (measurements and calculations, preparation of solutions, use of various laboratory instruments), and microscopic analysis. Students will return fingerprints to be demonstrated.
Pre or Corequisite: BSC2010S BSC1005L
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

BUL2241, BUSINESS LAW I

This course covers basic principles of law and their application to business problems. Topics include a discussion of legal rights and social forces; the legal relationships of government, business and society; law of contracts; personal property; the legal system; sales of goods, torts and business crimes.
Pre or Corequisite: BUL2242
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

BUL2242, BUSINESS LAW II

This course provides a study of the legal principles covering negotiable instruments, creditors, rights and secured transactions; agency, employer-employee relations; franchises, insurance, bankruptcy, partnerships, corporations, and real property.
Pre or Corequisite: BUL2241
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

BUL3130, BUSINESS LAW AND ETHICS

This course explores the nature of legal, ethical and societal environment of business. Emphasis is placed on business social, legal, political and ethical responsibilities to both external and internal groups for business. Topics include corporate social responsibility, legal, political, and ethical aspects of business, state and federal laws, contracts, intellectual property, employment law, product liability, safety issues and environmental regulation.
Pre or Corequisite: BUL3130
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

BUL4246, INTERNATIONAL BUSINESS LAW

Students will study the legal implications of transacting business across national borders. The focus will be on transnational international business practices, including, the legal and ethical environment of international business, international contracting, importing-exporting, trade finance, and international intellectual property law and licensing. Students will gain an appreciation of the special risks of conducting business internationally and the legal pitfalls associated with such risks.
Pre or Corequisite: BUL4246
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

CCJ1020, INTRODUCTION TO CRIMINAL JUSTICE

Introduction to the historical and philosophical foundations of the Criminal Justice System. An examination of the relationships between the police, courts and corrections systems.
Pre or Corequisite: CCJ1020
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

CCJ191, HUMAN BEHAVIOR IN CRIMINAL JUSTICE

A consideration of human behavior and how it relates to the duties and responsibilities of the criminal justice system.
Pre or Corequisite: CCJ191
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

CCJ2933, CRIMINAL PROCEDURES

This course offers practical experiences in corrections or related disciplines of criminal justice giving the student the opportunity to apply classroom knowledge. Prerequisite: CCJ2933
Pre or Corequisite: CCJ2933
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

CCJ2990, CO-OP WORK EXPERIENCE

A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of learning acquired as reported by student and employer. Prerequisite: Co-Op Department approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval. Placement by Testing Department.
Pre or Corequisite: CCJ2990
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

CDA4411, SYSTEMS INTEGRATION AND ARCHITECTURE

This course provides the student with a detailed understanding of computer hardware and system software. The material covered in this course is intended to establish a platform of technical knowledge for systems analysis, design, configuration, procurement, and management.
Pre or Corequisite: CDA4411
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

CDA4411, SYSTEMS INTEGRATION AND ARCHITECTURE

This course provides the student with a detailed understanding of computer hardware and system software. The material covered in this course is intended to establish a platform of technical knowledge for systems analysis, design, configuration, procurement, and management.
Pre or Corequisite: CDA4411
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00
CEN 541 PLATFORM TECHNOLOGIES
IT professionals will encounter a variety of platforms in their careers. The role of the IT professional is to architect, deploy, integrate, and administer platforms or components to support the organizations IT infrastructure. This knowledge area includes an overview of hardware and software and how they integrate to form essential components of IT systems. Prerequisite: CEN 1015C
Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=0.00

CEN 727 HUMAN COMPUTER INTERACTION
This course will provide the student the necessary elements in understanding and designing the Human Computer Interaction in the area of Information Technology. The student will learn user centered methodology in the development, evaluation and implementation of application and system software.
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=2.00

CET 1114C DIGITAL TECHNIQUES
The study and application of digital circuits. Topics include binary, octal and hexadecimal number systems. Boolean algebra, Karnaugh mapping, logic gates, flip-flops, counters, and registers, applications in combinational and sequential logic systems.
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=0.00

CET 1117C MICROPROCESSORS I
Study of the organization and operation of a stored program digital computer with emphasis on CPU operation in response to and machine language instructions. Methods of selecting and operating I/O devices under program control will also be studied. Course work includes sophisticated assembly language programming for the microprocessor. Prerequisite: instructor approval or Prerequisite: CET 1114C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=0.00

CET 416C TECHNICAL COMPUTER APPLICATIONS
Technological computing is a required part of the use of the Windows operating system, computer applications such as word processing, spreadsheets, presentation graphics, an introduction to CAD (Computer-Aided Design) and electronic simulation software is presented with emphasis on the problem solving tools in the Engineering Technology fields. This course is geared towards the Engineering Technology student. Prerequisite: CET 426C
Lec Hrs=32 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=0.00

CET 400C CISCO NETWORKING I
This course introduces the architecture, structure, functions, components, and models of the Internet and core protocols. It uses the OSI and TCP layered models to examine the nature and roles of protocol and service at the application, network, data link, and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. Labs use a model Internet to allow students to analyze real data professional to network. Packet tracer (PT) activities help students analyze protocol and network operation and build small network areas within the environment. At the end of the course, students build simple LAN topologies by applying basic principles of cabling. Prerequisite: CET 426C
Lec Hrs=66 - Lab Hrs=6 Clin Hrs=0 Oth Hrs=0 Fees=191.00

CET 1600C CISCO NETWORKING II
This course will provide the student the necessary elements in understanding and designing the Cisco three-layer networking infrastructure. The use of the Cisco network architecture will be explored to understand the requirements for solving problems on the three-layer architecture. Prerequisite: CET 1600C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=191.00

CET 1615C CISCO NETWORKING III
This course will provide the student the necessary elements in understanding and designing network topology and business applications. The study of the organization and operation of an Internet Protocol network with emphasis on network topology and business applications. Prerequisite: CET 1615C
Lec Hrs=66 - Lab Hrs=6 Clin Hrs=0 Oth Hrs=0 Fees=191.00

CET 1620C CISCO NETWORKING IV
This course discusses the Ciscoware technologies and network topology. Prerequisite: CET 1620C
Lec Hrs=66 - Lab Hrs=6 Clin Hrs=0 Oth Hrs=0 Fees=191.00

CET 1625C CISCO CCNP I
This course provides students with the knowledge and skills necessary to plan, configure and verify the implementation of complex enterprise switching solutions using Cisco’s Catalyst Enterprise Architecture. The skills developed by students completing this course will help prepare them for the Cisco CCNP Exam. Prerequisite: CET 1625C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=191.00

CET 1627C CISCO CCNP II - SWITCHING
This course provides students with the knowledge and skills necessary to plan, configure and verify the implementation of complex enterprise switching solutions using Cisco’s Catalyst Enterprise Architecture. The skills developed by students completing this course will help prepare them for the Cisco CCNP Exam. Prerequisite: CET 1627C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=191.00

CET 1629C CISCO CCNP III
This course provides students with the knowledge and skills necessary to plan and perform regular maintenance on complex enterprise routed and switched networks and to use technology-based practices and a systematic ITIL-compliant approach to perform network troubleshooting. The skills developed by students completing this course will help prepare them for the Cisco Troubleshoot Exam. Prerequisite: CET 1629C CET 1627C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=191.00

CET 660C CISCO CCNA SECURITY
CCNA Security equips students with the knowledge and skills needed to prepare for the entry-level security specialist career path. It provides a hands-on introduction to network security. Prerequisite: CET 602C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=0.00

CET 742C ADVANCED NETWORKING
This course is for support professionals who are new to networking services and will be responsible for installing, configuring, managing and supporting a network infrastructure that uses various networking services. It also provides students with the prerequisite knowledge and skills required for implementing and administering directory services such as Microsoft Active Directory. Prerequisite: CET 486C
Lec Hrs=48 - Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=7.00

CGS 106C COMPUTER AND INTERNET LITERACY
This is an introductory course in basic computer and internet use. It covers computer hardware and software fundamentals (including the use of Windows), key productivity applications (including word processing, spreadsheets, and presentation systems), and living in an online world (including network fundamentals, e-mails, and the effective use of the Internet as a communication tool and information resource). Students will develop basic computer skills to aid them with college and study requirements. Hands-on use of a personal computer is required. Prerequisite: CET 1600C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=48 Fees=47.00

CET 2625C CISCO CCNP II - SWITCHING
This course provides students with the knowledge and skills necessary to plan, configure and verify the implementation of complex enterprise switching solutions using Cisco’s Catalyst Enterprise Architecture. The skills developed by students completing this course will help prepare them for the Cisco Troubleshoot Exam. Prerequisite: CET 1627C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=191.00

CET 2627C CISCO CCNP I
This course provides students with the knowledge and skills necessary to plan and perform regular maintenance on complex enterprise routed and switched networks and to use technology-based practices and a systematic ITIL-compliant approach to perform network troubleshooting. The skills developed by students completing this course will help prepare them for the Cisco CCNP Exam. Prerequisite: CET 1627C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=191.00

CET 2629C CISCO CCNP III
This course provides students with the knowledge and skills necessary to plan and perform regular maintenance on complex enterprise routed and switched networks and to use technology-based practices and a systematic ITIL-compliant approach to perform network troubleshooting. The skills developed by students completing this course will help prepare them for the Cisco Troubleshoot Exam. Prerequisite: CET 1629C CET 1627C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=191.00

CET 660C CISCO CCNA SECURITY
CCNA Security equips students with the knowledge and skills needed to prepare for the entry-level security specialist career path. It provides a hands-on introduction to network security. Prerequisite: CET 602C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=0.00

CET 742C ADVANCED NETWORKING
This course is for support professionals who are new to networking services and will be responsible for installing, configuring, managing and supporting a network infrastructure that uses various networking services. It also provides students with the prerequisite knowledge and skills required for implementing and administering directory services such as Microsoft Active Directory. Prerequisite: CET 486C
Lec Hrs=48 - Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=7.00

CGS 106C COMPUTER AND INTERNET LITERACY
This is an introductory course in basic computer and internet use. It covers computer hardware and software fundamentals (including the use of Windows), key productivity applications (including word processing, spreadsheets, and presentation systems), and living in an online world (including network fundamentals, e-mails, and the effective use of the Internet as a communication tool and information resource). Students will develop basic computer skills to aid them with college and study requirements. Hands-on use of a personal computer is required. Prerequisite: CET 1600C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=48 Fees=47.00

CGS 106C COMPUTER AND INTERNET LITERACY
This is an introductory course in basic computer and internet use. It covers computer hardware and software fundamentals (including the use of Windows), key productivity applications (including word processing, spreadsheets, and presentation systems), and living in an online world (including network fundamentals, e-mails, and the effective use of the Internet as a communication tool and information resource). Students will develop basic computer skills to aid them with college and study requirements. Hands-on use of a personal computer is required. Prerequisite: CET 1600C
Lec Hrs=48 - Lab Hrs=16 Clin Hrs=0 Oth Hrs=48 Fees=47.00
CHD1320  CURRICULUM PLANNING FOR EARLY

and documentation will be included in the

program direction, testing, and debugging.

Custom variables will be created.

complex interactive titles for cross platform

delivery. Emphasis is placed on the use of

microcomputer database management software

for course business operations.

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = 78  Fees = $0.00

LECH = 48  Lab = 32  Clin = 0  Other = 78  Fees = $0.00

CHD1332 CURRICULUM PLANNING FOR EARLY

Content and methods of planning developmentally appropriate activities to enhance children's

cognitive, social, emotional, physical and

creative development. Lesson plan formats and
daily scheduling will be covered.

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $0.00

CHD1331 CREATIVITY FOR YOUNG CHILDREN

This course offers an understanding of theory in

children's art, music, and movement activities and

their practical classroom application through

practice activities.

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $0.00

CHD1334 CHILDREN'S LITERATURE & LANGUAGE ARTS

This history and perspective will guide a study of

guidelines books, such as fairy tales, folk
tales, poems, and nursery rhymes. The role of the

teacher in the child's acquisition of

communications skills will be investigated.

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $0.00

CHD1338 MATH & SCIENCE FOR THE

LEARNING DISABILITY

Designed to foster understanding of the
development of mathematical thinking and the

mental ability of the preschool child. The

science portion will enable the pupil to become familiar

with the concept and techniques of

«sciencing.»

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $16.00

CHD1498 PRACTICUM I: OBSERVATION AND EVOLUTION

This course offers an opportunity to observe children in care

settings, gain understanding of their

behavior and their environments.

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $6.00

CHD2441 PRACTICUM II

Facilitates practical experiences in techniques of

early childhood education. Requires qualified supervision in a school or center for preschool

education.

Lec Hours = 16  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $0.00

CHD2800 ADMIN AND MGMT IN E C EDUCATION

This course will emphasize the

operation of a childcare facility. Classroom exposure will emphasize and assess site selection,

building design and supervision in a two functions,

selection, equipment planning, scheduling, financing, budgeting, record-keeping, and

marking.

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $0.00

CHD1025 INTRODUCTION TO CHEMISTRY

Selected topics from general chemistry. Topics

covered include chemical measurements, atomic

structure, stoichiometry, chemical bonding, organic

compound nomenclature and formula

writing, stoichiometry, gases, liquids, solids,
solutions, chemical reactions, oxidation

reduction chemistry, energy, and nuclear

chemistry.

Prerequisite: MAT0028

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $0.00

CHM1025L INTRODUCTION TO CHEMISTRY LAB

Laboratory experiments to accompany CHM1025.

Prerequisite: MAT0028

Lec Hours = 0  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $33.00

CHM1025 CHEMISTRY FOR HEALTH SCIENCES

Selected topics from general chemistry: organic chemistry and biochemistry. This course is
designed specifically for Nursing and other Allied Health team students.

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $0.00

CHM1032L CHEMISTRY FOR HEALTH SCIENCES LAB

Laboratory exercises to accompany CHM1032. Pre or Corequisite: CHM1032

Lec Hours = 0  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $18.00

CHM1040 GENERAL CHEMISTRY A (EXPANDED

SEQUENCE)

This is the first course in a three semester sequence, CHM1040, CHM1041 and CHM1046. This sequence includes two laboratories: CHM1045L to be taken concurrently with CHM1041 and CHM1046, and be taken with CHM1046. Topics covered include: measurements, stoichiometry, atomic structure, periodic table, chemical bonding, ionic and covalent compounds, nomenclature, and formula writing.

Pre or Corequisite: MAT1033

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $0.00

CHM1041 GENERAL CHEMISTRY B (EXPANDED

SEQUENCE)

This is the second course in a three semester sequence which includes CHM1040, CHM1041 and CHM1046. This sequence also includes two laboratories: (1) CHM1045L to be taken concurrently with CHM1041 and (2) CHM1046L to be taken with CHM1046. Topics covered include: measurements, stoichiometry, atomic structure, periodic table, chemical bonding, ionic and covalent compounds, nomenclature, and formula writing.

Pre or Corequisite: CHM1045L

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $33.00

CHM1042L GENERAL CHEMISTRY C (EXPANDED

SEQUENCE)

This is the third course in a three semester sequence which includes CHM1040, CHM1041 and CHM1046. This course is highly recommended. Prerequisite: MAT0105

Pre or Corequisite: CHM1046L

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $100.00

CHM1045L GENERAL CHEMISTRY I-LAB

Laboratory experiments to accompany CHM1045 or CHM1045L. Placement by Testing Department or Pre or Corequisite: CHM1045

Lec Hours = 0  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $18.00

CHM1046 GENERAL CHEMISTRY II

This is the final course of the two-semester general chemistry sequence: CHM1040 and CHM1041 and (2) CHM1046. These sequences include two laboratories: 1) CHM1045L to be taken concurrently with CHM1041 or CHM1045L, and 2) CHM1046L to be taken with CHM1046. This course includes thermodynamics, kinetics, equilibria, electrochemistry, coordination chemistry, descriptive chemistry of metals, nuclear chemistry and an introduction to organic chemistry.

Prerequisite: CHM1045L CHM1046L

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $0.00

CHM1046L GENERAL CHEMISTRY II LAB

Laboratory experiments to accompany CHM1045 or CHM1045L. Special fee charged. Upon successful completion of this course, the students should be able to independently perform the laboratory experiments to safely perform laboratory experiments that relate to the topics covered in CHM1046 or CHM1046L, to collect data accurately and to use those data to calculate a reasonable answer or come to a logical conclusion.

Pre requisite: CHM1045L CHM1046L

Pre or Corequisite: CHM1046L

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $33.00

CHM2121 ORGANIC CHEMISTRY I

First part of a two course sequence presenting the structure, preparation, reaction, and nomenclature of various classes of organic compounds and their derivatives. Reaction electronic mechanisms are interpreted and unified in the light of modern theory.

Pre or Corequisite: CHM1045L CHM1046L

Pre or Corequisite: CHM2121L

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $0.00

CHM2121L ORGANIC CHEMISTRY I LAB

Organic laboratory experiments and preparations to accompany CHM2121L.

Special fee charged.

Pre or Corequisite: CHM2121L CHM2121L

Pre or Corequisite: CHM2121L

Lec Hours = 48  Lab Hours = 32  Clin Hours = 0  Other Hours = Fees = $100.00
CHM2211 ORGANIC CHEMISTRY II
Second of the two-part organic chemistry courses. A continuation of the study of the remaining classes of organic managerial concepts including use of spectroscopic methods and an introduction to bio-organic molecules.
Prerequisite: CHM2210L
Corequisite: CHM2211L
Lab Hrs=48 Lec Hrs=0 Cln Hrs=0 Cost=0.00

CHM2211L ORGANIC CHEMISTRY II LABORATORY
Appropriate experiments and preparation to complement CHM2211.
Special fee charged.
Prerequisite: CHM22110 CHM22120
Lab Hrs=48 Lec Hrs=0 Cln Hrs=0 Cost=100.00

CHM2303 ORGANIC & BIOCHEMISTRY
This course introduces the preprofessional science educator to fundamental organic and biochemical concepts. It is a content course in the B.S. Degree in the BC Science Education Program. The course has been designed to introduce the student to the process of system development, the traditional structural approach for system analysis and design, use of modeling tools, adherence to methodological life cycle and project management standards system development strategy and new trends of system development. This course is a foundation course for students majoring in Chemical Engineering and provides the student with an appreciation of the role of chemistry in chemical engineering. The course requires the student to work in teams and under the guidance of the instructor.
Prerequisite: CHM221L
Lab Hrs=48 Lec Hrs=0 Cln Hrs=0 Cost=100.00

CHM2303L BIOCHEMISTRY LAB
This course has a weekly 3-hour laboratory session with laboratory experiments to accompany the lectures in CHM2303 Survey of Organic Chemistry and Biochemistry. This is a content laboratory course in the B.S. Degree in the BC Science Education Program. The course has been designed to enhance the understanding of organic and biochemical concepts essential for the K-12 classroom. This program has been designed to correlate chemistry concepts with the NSTA National Science Content Standards, the Florida Subject Matter Content Standards, and the Florida Sunshine State Science Standards.
Corequisite: CHM2303L
Lab Hrs=48 Lec Hrs=0 Cln Hrs=0 Cost=0.00

CIS151C PROJECT MANAGEMENT
(3)
This course examines the organization, planning, and controlling of projects and practical knowledge on managing project scope, schedule and resources. Topics include project life cycle, work breakdown structure and Gantt charts, network diagrams, deliverables, project deliverables, and client acceptance criteria. Concepts are applied through team projects and tutorials using project management software.
Prerequisite: CGS1060C or placement.
Lab Hrs=48 Lec Hrs=0 Cln Hrs=0 Cost=60.00

CIS212C SYSTEMS ANALYSIS AND DESIGN
(3)
This course introduces the process and methodology for system analysis and design. Students will be introduced to the process of system development, the traditional structural approach for system analysis and design, use of modeling tools, adherence to methodological life cycle and project management standards system development strategy and new trends of system development. This course is a foundation course for students majoring in Chemical Engineering and provides the student with an appreciation of the role of chemistry in chemical engineering. The course requires the student to work in teams and under the guidance of the instructor.
Prerequisite: CIS100C
Lab Hrs=48 Lec Hrs=0 Cln Hrs=0 Cost=60.00

CIS294 CO-OP WORK EXPERIENCE
(3)
A course designed to provide training in the field of work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer.
Prerequisite: Co-Op Department approval. Student will be assigned specific course prefixes with the academic major prior to registration. All students must contact the Co-operative Education Office to obtain their internship experience.
Lab Hrs=48 Lec Hrs=0 Cln Hrs=0 Cost=0.00

CIS3100 MANAGEMENT INFORMATION SYSTEMS
(3)
Integrates business and IT concepts through an introduction to database theory, programming, word processing, spreadsheets, and other office productivity software applications. This course provides an overview of IT concepts, applications, and their effects on the world and society. The course also includes an introduction to Internet and web development.
Prerequisite: CGS1060C
Lab Hrs=48 Lec Hrs=0 Cln Hrs=0 Cost=60.00

CJS2010 INTRODUCTION TO CRIMINAL JUSTICE ADMINISTRATION & MGMT
(3)
Introduction to principles of administration and management concepts characteristic of criminal justice organizations.
Lab Hrs=48 Lec Hrs=0 Cln Hrs=0 Cost=0.00

CJE1270 COMPARATIVE WORLD POLICE AGENCIES
(3)
A survey of contemporary foreign law enforcement and criminal justice systems. Includes the study of historical and operational differences emerging from various cultural and legal systems. This course will be offered in one-, two-, and three-hour laboratory sections.
Lab Hrs=48 Lec Hrs=0 Cln Hrs=0 Cost=44.00

CJ2640 INTRODUCTION TO CRIMINAL JUSTICE
(3)
An introduction to the scientific aspects of investigation known as criminalistics, with emphasis on crime scene techniques, the collection and preservation of evidence and the examination of evidence. Students will be familiarized with the capabilities and limitations of a police crime lab. Special fee charged. 1 hr. Lab. 2 hrs. Lab.
Prerequisite: CJE2600 CJE2640 CJE2770
Lab Hrs=48 Lec Hrs=0 Cln Hrs=0 Cost=20.00

CJE2642 CRIMINALISTICS PRACTICUM
(3)
The knowledge and skills developed in the prerequisite course are applied to practical exercises which will develop expertise in the complete processing of crime scenes. Special fee charged. 1 hr. Lab. 2 hrs. Lab.
Prerequisite: CJE2600 CJE2640 CJE2770
Lab Hrs=32 Lec Hrs=0 Cln Hrs=0 Cost=44.00

CJE2770 INTRO TO CRIMINAL JUSTICE
This course explores the scientific and investigative methods used to solve serious crimes against persons. Topics include distinguishing between causes of death, such as accidental, suicide or homicide; the use of autopsies; child and elderly abuse investigation. (NOTE: this course utilizes graphic material that may make some students uncomfortable.) Instructor's approval required. Pre-requisite: CJE2600 CJE2643

ADVANCED FORENSIC INVESTIGATION
5

This course examines the history and development of the polygraph with further emphasis on mechanics of instrument operation, maintenance and calibration. Course offered through Deception Control, Inc., Ft. Lauderdale.

CJE2722

POLYGRAPH THEORY AND OPERATIONS
5

This course is based on the current curriculum as developed and approved by the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission. This course is designed to provide transitioning officers the firearms training (night-firing) required for the new discipline not previously completed by the officer. Qualification with the weapon is required. In addition, this course is mandated by the Florida Criminal Justice Standards and Training Commission for inclusion in the Crossover from Correctional Officer to Law Enforcement Officer training program effective May 11, 2005. This is a limited access course. It requires active certification and employment as a State of Florida correctional officer.

CJK0123

CROSS-OVER CORRECTIONS TO LAW ENFORCEMENT TACT. APP.
(1)

This course is designed to provide transitioning officers the tactics applied during training required for the new discipline not previously completed by the officer. This course explores the knowledge and procedures necessary for an officer engaging in various activities, to include: court process, incident command system, bombs and explosives, and crowd control. In addition, this course is mandated by the Florida Criminal Justice Standards and Training Commission for inclusion in the Crossover from Correctional Officer to Law Enforcement Officer training program effective May 11, 2005. This is a limited access course. It requires active certification and employment as a State of Florida correctional officer.

CJK0110

INTERPERSONAL SKILLS 1
(0)

This course is designed to familiarize the student with the human behavior, human interaction, and physically handicapped persons. 

Lec Hrs=02 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

CJK0101

INTERPERSONAL SKILLS 2
(0)

This course is designed to familiarize the student with human adjustment to imprisonment, interpersonal skills, supervision of correctional officers, preventing sexual assault.

Lec Hrs=08 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

CJK0102

CORRECTIONAL OPERATION
(0)

This course is based on the current curriculum, as developed and approved by the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission. This course is designed to provide transitioning officers the firearms training (night-firing) required for the new discipline not previously completed by the officer. Qualification with the weapon is required. In addition, this course is mandated by the Florida Criminal Justice Standards and Training Commission for inclusion in the Crossover from Correctional Officer to Law Enforcement Officer training program effective May 11, 2005. This is a limited access course. It requires active certification and employment as a State of Florida correctional officer.

CJK0103

CORRECTIONAL TO LAW ENFORCEMENT
(0)

This course is designed to provide transitioning officers the tactics applied during training required for the new discipline not previously completed by the officer. This course explores the knowledge and procedures necessary for an officer engaging in various activities, to include: court process, incident command system, bombs and explosives, and crowd control. In addition, this course is mandated by the Florida Criminal Justice Standards and Training Commission for inclusion in the Crossover from Correctional Officer to Law Enforcement Officer training program effective May 11, 2005. This is a limited access course. It requires active certification and employment as a State of Florida correctional officer.

CJK0104

CORRECTIONAL TO LAW ENFORCEMENT TACT. APP.
(0)

This course is designed to provide transitioning officers the tactics applied during training required for the new discipline not previously completed by the officer. This course explores the knowledge and procedures necessary for an officer engaging in various activities, to include: court process, incident command system, bombs and explosives, and crowd control. In addition, this course is mandated by the Florida Criminal Justice Standards and Training Commission for inclusion in the Crossover from Correctional Officer to Law Enforcement Officer training program effective May 11, 2005. This is a limited access course. It requires active certification and employment as a State of Florida correctional officer.

CJK0105

CORRECTIONAL TO LAW ENFORCEMENT TACT. APP.
(0)

This course is designed to provide transitioning officers the tactics applied during training required for the new discipline not previously completed by the officer. This course explores the knowledge and procedures necessary for an officer engaging in various activities, to include: court process, incident command system, bombs and explosives, and crowd control. In addition, this course is mandated by the Florida Criminal Justice Standards and Training Commission for inclusion in the Crossover from Correctional Officer to Law Enforcement Officer training program effective May 11, 2005. This is a limited access course. It requires active certification and employment as a State of Florida correctional officer.

CJK0106

CORRECTIONAL TO LAW ENFORCEMENT TACT. APP.
(0)

This course is designed to provide transitioning officers the tactics applied during training required for the new discipline not previously completed by the officer. This course explores the knowledge and procedures necessary for an officer engaging in various activities, to include: court process, incident command system, bombs and explosives, and crowd control. In addition, this course is mandated by the Florida Criminal Justice Standards and Training Commission for inclusion in the Crossover from Correctional Officer to Law Enforcement Officer training program effective May 11, 2005. This is a limited access course. It requires active certification and employment as a State of Florida correctional officer.

CJK0107

CORRECTIONAL TO LAW ENFORCEMENT TACT. APP.
(0)

This course is designed to provide transitioning officers the tactics applied during training required for the new discipline not previously completed by the officer. This course explores the knowledge and procedures necessary for an officer engaging in various activities, to include: court process, incident command system, bombs and explosives, and crowd control. In addition, this course is mandated by the Florida Criminal Justice Standards and Training Commission for inclusion in the Crossover from Correctional Officer to Law Enforcement Officer training program effective May 11, 2005. This is a limited access course. It requires active certification and employment as a State of Florida correctional officer.

CJK0108

CORRECTIONAL TO LAW ENFORCEMENT TACT. APP.
(0)
This course is designed to provide transitioning officers a variety of leadership, investigation, training topics required for the new discipline (and not previously completed by the officer). These issues include, but are not limited to, crisis intervention, disability awareness, and responding to juveniles.

This course is based on the current curriculum standards as developed and approved by the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission.

This course is designed to introduce the student; with FCIC telecommunications, police radio procedures, professional behavior, the introduction of criminal justice literature to be collected and the procedures to follow in taking notes. The student will demonstrate note-taking techniques in practical situations.

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At the end of this course, students should be able to: understand the classification process involving criminal history information; obtain statements when appropriate; maintain care, custody, and control of inmates within a housing unit; supervise and monitor the behavior and activities of inmates; know inmate security regulations.

At the end of this course, students should be able to: recognize an inmate’s distress or chronic behavioral problems; maintain care, custody, and control of inmates within a housing unit; maintain records of inmate’s daily activities and documenting inventoried equipment; describe procedures for the release of inmates.

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WELL-DOCUMENTED, STRUCTURED COMPUTER PROGRAMS. This course provides the beginning programming
P R O G R A M M I N G      ( 3 )

CIVIL RIGHTS
A survey course of the Federal Rights legislation to include the 15th through 15th Amendments of the Reconstruction Era and Civil Rights legislation of the 60's. Special topics to include consideration of the American Disabilities Act, Age Discrimination in Employment Act, Equal Employment Opportunity Act, Equal Pay Act, Affirmative Action, and Sexual Harassment.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

LOCAL AREA NETWORKING
This course is designed as a comprehensive study of microcomputer networking. Topics include the selection, installation, maintenance, and management of network software and hardware.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

NETWORKING
This course teaches the concepts necessary to design, deploy, integrate and administer a communications infrastructure. This course includes data communication concepts that cover telecommunications, the Internet and Internet working principles.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

SYSTEM ADMINISTRATION AND MAINTENANCE
This course will provide the IT professional with the knowledge and the management tools that are needed to design, select, apply, and deploy computer systems. The learned outcomes will allow the student an understanding in system administration concepts that will cover software, hardware, system security, databases, documentation, internet, and maintenance.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

INFRASTRUCTURE AND FACILITIES PLANNING
Students integrate computer networking and software into a robust, secure, redundant and resilient infrastructure. Students will research and present findings related to enterprise projects in computer networking design. In addition to the technical requirements the student will learn the business principles of economies of scale, service level agreements, request for proposals, and outsourcing.

Prerequisite: CNT3001
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

INTRODUCTION TO COMPUTER PROGRAMMING
This course provides the beginning programming student with the student a solid foundation in building applications using an object-oriented event-driven language. The course is intended to emphasize the planning process using examples involving sequence, selection, and iteration. The course is designed to promote good programming practices for further study of other, civil rights, constitutional law, legal service, disciplinary procedures, parole and current case law.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

COPI354C INTRODUCTION TO C++
This course provides an introduction to computer programming using the C++ language. A structured, multi-phase, program development process featuring a series of steps involving problem definition, top-down design, and formal program specification is stressed. The course is NOT Descriptive Analysis. Students who do not possess a computer programming experience are strongly encouraged to complete COP1000C (Introduction to Computer Programming) before attempting this course.

Prerequisite: MAT0032
Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$48.00

COPI333C INTERMEDIATE C++ PROGRAMMING
This course continues the study of structured programming and the C++ language begun in COP134C. Topics will include classes, polymorphism, inheritance, streams, templates, exception handling dynamic memory allocation, and memory management. An introduction to data abstraction principles will be included.

Prerequisite: CIS1000C COP134C
Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$45.00

COPI377C DATABASE DESIGN AND PROGRAMMING USING SQL
This course provides the student with a solid foundation in Relational Database Management Systems and RDBMS technology. It emphasizes an end-to-end solution, beginning with requirements and progressing through conceptual design, logical database design, physical database design, and implementation, using a RDBMS and the SQL language. It involves extensive database manipulation and querying using SQL. It also stresses transaction management concepts, data integrity constraints, and performance issues.

Prerequisite: COP134C
Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$40.00

COPI271C VISUAL BASIC PROGRAMMING
This course teaches how to create Visual Basic based programs. Students write programs that access data from an OLE to integrate applications, and act as an OLE Server as well as an add-in. This class assumes a working knowledge of basic programming concepts.

Prerequisite: COPI134C
Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$40.00

COPI250C C PROGRAMMING
This course teaches students how to create C programs with a solid foundation in building applications using an object-oriented /event-driven language. Students will write programs using C controls and their main properties, methods and events. Students will also write programs that access sequential access files and will learn basic program structuring techniques and manipulation of arrays in C. The class assumes a working knowledge of basic program control structures.

Prerequisite: CIS221C COPI135C
Pre or Corequisite: COP2521C
Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$54.00

COPI262C OBJECT-ORIENTED ANALYSIS AND DESIGN
This course focuses on the object-oriented software modeling process. Students will learn in detail all aspects of object-oriented methodologies and workflows. Students will be able to determine the Use Cases and Dynamic Models of the problem at hand. They will learn Object-Oriented Analysis and Design principles. Students will be able to create Java programs that leverage the object-oriented features of the Java language, such as encapsulation, inheritance and polymorphism; use data types, arrays and other data collections; implement error-handling techniques using exception handling; create an event-driven GUI using Swing components; and implement I/O functionality to read from and write to text files.

Prerequisite: CIS221C COPI135C
Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$54.00

COPI280C PROGRAMMING IN JAVA
This course introduces students to the JAVA Programming Language. Upon successful completion of this course, the student should be able to create Java programs that leverage the object-oriented features of the Java language, such as encapsulation, inheritance and polymorphism; use data types, arrays and other data collections; implement error-handling techniques using exception handling; create an event-driven GUI using Swing components; and implement I/O functionality to read from and write to text files.

Prerequisite: CIS221C COPI135C
Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$54.00

COPI290C JAVA SCRIPTING
This course will teach students how to write JavaScript that can be executed on any computer running compatible software. These programs will be created using the object-based scripting language and designed to interact over the Internet or any other similar network with an appropriate Web Browser. Students will learn JavaScript structure and syntax, how to interact with environment variables, use event handlers, perform basic I/O operations, receive and send messages, etc. and write visual programs that access a database, and

Prerequisite: COP290C
Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$54.00

COPI306C OBJECT-ORIENTED ANALYSIS AND DESIGN
This course applies a relational model approach to logical and physical data structure and data concepts and modeling. It also applies a model based conceptual design framework and implementation using current software.

Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$54.00

COPI3847 WEB SYSTEMS AND TECHNOLOGIES
Information Technology (IT) applications are often run on increasingly web based. Web technologies has grown to include a variety of businesses, academic, organizational and social applications. Digital multi-cultural and multilingual user communities now depend on web technology. This knowledge area covers the design, implementation and testing of web based applications including related software, databases, interfaces and digital media. It also covers social, ethical and security issues arising from the web and social software.

Prerequisite: COP3703
Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

COPI3588 INTEGRATIVE PROGRAMMING AND TECHNOLOGIES
Organizations typically use many disparate technologies that need to communicate and work with each other. A sound understanding of the discipline of information technology is the integration of applications and systems. This knowledge area examines the various types of programming languages and their appropriate use. It also addresses the use of scripting languages, architectures, application programmable interfaces and programming practices to facilitate the management, integration and security of the systems that support an organization.

Prerequisite: COPI3847
Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

COPI3002 INTRODUCTION TO COMPARATIVE GOVERNANCE
This course is a survey of political systems in the developed and the underdeveloped world. Students with a background in political sciences, government and international relations will benefit from the course.

Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

COPI40 GOVERNMENT AND POLITICS OF SPAIN
An introduction to the understanding of Spain's governmental process, with emphasis on the structure of Spanish political parties, the constitutional framework, the working of the bureaucracy, and the role of interest groups within the context of Spain's political system.

Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

The course aims to provide the student with a solid foundation in the understanding of Spain's political systems, with emphasis on the structure of Spanish political parties, the constitutional framework, the working of the bureaucracy, and the role of interest groups within the context of Spain's political system.

Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

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284
Lecture

CRW1001  CREATIVE WRITING I
The course is structured toward producing literary fiction, poetry, dramatic forms, creative non-fiction and other original expression. Student writing will be the primary basis for critical discussion with emphasis on fundamental aspects of poetry, fiction, and/or drama, as illustrated in master writers’ works and demonstrated in student work. Lectures, readings, craft analysis, discussions, exercises and workshops provide students with the opportunity to develop the craft of creative writing.
Lec Hrs=48 Lbl Hrs=12 Cln Hrs=0 Oth Hrs=32 Fees=0.00

CRW1100  FICTION WRITING
Lectures, readings, craft analysis, discussions, writing exercises, and workshops provide students with the opportunity to analyze fiction and practice the craft of writing fiction. The course is structured toward producing literary fiction. Student writing and master writers’ works will be the primary basis for critical discussion, with an emphasis on the fundamental aspects of fiction. Students will learn the craft of creative writing.
Lec Hrs=48 Lbl Hrs=12 Cln Hrs=0 Oth Hrs=32 Fees=0.00

CRW1300  POETRY WRITING
Student writing as the basis for critical discussion with emphasis on analysis for the elements of poetry. 
Prerequisite: ENC1101
Lec Hrs=48 Lbl Hrs=12 Cln Hrs=0 Oth Hrs=32 Fees=0.00

CRW2002  CREATIVE WRITING WORKSHOP II
A continuing development of creative writing ability. 
Prerequisite: CRW1001
Lec Hrs=48 Lbl Hrs=12 Cln Hrs=0 Oth Hrs=32 Fees=0.00

CRW2003  ADVANCED CREATIVE WRITING WORKSHOP III
A continuing development of creative writing ability. Students may work on independent writing projects. Directed independent study.
Instructor's Approval or Prerequisite: CRW2002
Lec Hrs=48 Lbl Hrs=12 Cln Hrs=0 Oth Hrs=32 Fees=0.00

CRW2005  ADVANCED CREATIVE WRITING WORKSHOP I
A continuing development of creative writing ability. Students may work on independent writing projects. Directed independent study.
Instructor's Approval or Prerequisite: CRW2002
Lec Hrs=16 Lbl Hrs=4 Cln Hrs=0 Oth Hrs=0 Fees=0.00

CTS110C  ADOBE PHOTOSHOP
This Adobe course teaches students how to fully utilize the latest Adobe Photoshop imaging editing tool to create and manipulate images. The course includes hands-on experiences with exercises and projects to provide students with a thorough working knowledge of Adobe Photoshop. In this course students learn to paint and retouch images, use layers, support video, work with vector tools, manage digital assets, work with RAW camera files, manage color, and prepare images for output to the web. The skills developed by students completing this course will help prepare them for the Adobe Certified Associate certification exam. Placement by test or
Prerequisite: CSGS106C
Lec Hrs=36 Lab Hrs=12 Cln Hrs=0 Oth Hrs=0 Fees=157.00

CTS121C  WINDOWS AND OUTLOOK FOR BUSINESS
This course teaches students to utilize Windows operating system to be more productive, more collaborative, and more efficient. The course covers the skills necessary to effectively administer Windows workstations and servers. Students will plan, install, maintain, and troubleshoot Linux operating system services. The skills developed by students completing this course will help prepare them for the CompTIA Linux+ certification exam.
Lec Hrs=48 Lab Hrs=16 Cln Hrs=0 Oth Hrs=0 Fees=184.00

CTS135C  A+ OPERATING SYSTEMS
This course provides students with the knowledge required to assemble components based on customer requirements, install, configure and maintain devices, PCs and software for end users, understand the basics of networking and security/ forensics, properly and safely diagnose, resolve and document common hardware and software issues while troubleshooting skills. Successful candidates will also provide appropriate customer support; understand the basics of virtualization, desktop imaging, and deployment.
Lec Hrs=36 Lab Hrs=12 Cln Hrs=0 Oth Hrs=0 Fees=73.00

CTS135C  NETWORK+
This course provides students with important knowledge and skills to be used to implement a defined network architecture with basic network security to configure, maintain, and troubleshoot network devices and associated software. The skills developed by students completing this course will help prepare them for the Microsoft Office Specialist Network+ certification exam.
Lec Hrs=36 Lab Hrs=12 Cln Hrs=0 Oth Hrs=0 Fees=73.00

CTS135C  MICROSOFT OFFICE INFRASTRUCTURE
This course provides students with the knowledge and skills necessary to install and configure Windows Server 2008 network infrastructure. Students will learn to implement and configure secure network access and implement fault tolerant storage technologies. Students will gain an understanding of the network technologies most commonly used with Windows Server and IP-enabled networks. Students will also learn how to secure servers and maintain updates compliance.
Prerequisite: CTS113C-CTS127C
Lec Hrs=48 Lab Hrs=16 Cln Hrs=0 Oth Hrs=0 Fees=204.00

CTS137C  MICROSOFT WINDOWS CLIENT
This course provides students with the knowledge and skills necessary to install and configure Microsoft Windows client. It will also provide them with the knowledge and skills to use the IT Pro tools and productivity applications that ship with a Microsoft Windows client. The skills developed by students completing this course will help prepare them for the Microsoft Windows client certification.
Prerequisite: CTS135C
Lec Hrs=48 Lab Hrs=16 Cln Hrs=0 Oth Hrs=0 Fees=204.00

CTS137C  MICROSOFT WINDOWS CLIENT
This course provides students with the knowledge and skills necessary to install and configure Microsoft Windows client. It will also provide them with the knowledge and skills to use the IT Pro tools and productivity applications that ship with a Microsoft Windows client. The skills developed by students completing this course will help prepare them for the Microsoft Windows client certification.
Prerequisite: CTS135C
Lec Hrs=48 Lab Hrs=16 Cln Hrs=0 Oth Hrs=0 Fees=204.00

CTS137C  MICROSOFT WINDOWS NETWORK INFRASTRUCTURE
This course provides students with the knowledge and skills necessary to install and configure Windows Server 2008 network infrastructure. Students will learn to implement and configure secure network access and implement fault tolerant storage technologies. Students will gain an understanding of the network technologies most commonly used with Windows Server and IP-enabled networks. Students will also learn how to secure servers and maintain updates compliance.
Prerequisite: CTS113C-CTS127C
Lec Hrs=48 Lab Hrs=16 Cln Hrs=0 Oth Hrs=0 Fees=204.00

CTS121C  MICROSOFT SPECIALIST: EXCEL
This course teaches students advanced skills and design concepts for employing Microsoft Excel to organize and manipulate enterprise data. The course includes hands-on experiences with exercises and projects to provide students with a thorough working knowledge of Microsoft Excel. This course is valuable for anyone wanting to create and manipulate data, format data and content, create and modify formulas, present data visually, collaborate on and secure data. The skills developed by students completing this course will help prepare them for the Microsoft Office Specialist Excel certification exam.
Prerequisite: Lec Hrs=36 Lab Hrs=12 Cln Hrs=0 Oth Hrs=0 Fees=124.00
This course teaches students how to use the Adobe Dreamweaver Integrated Development Environment. Students learn project requirements, website usability, using rich media content, content control tools, website building techniques, collaboration and site testing, and how to manage and maintain websites.

Prerequisite: CTS1060C

Lec Hrs:36 Lab Hrs:12 Cln Hrs:0 Oth Hrs:0
Fees:124.00

CTS1080C MICROMEDIA FLASH

This course teaches students how to produce vector-based animated and interactive web sites using Adobe Flash tools. The course will cover everything from the basic interface to advanced button design and form interaction. Students will learn to place the multimedia features in Flash, and how to take advantage of them.

Prerequisite: CTS1054C

Lec Hrs:36 Lab Hrs:12 Cln Hrs:0 Oth Hrs:0
Fees:157.00

CTS2164C SOLUTION ARCHITECTURES

This course provides students with the knowledge and skills necessary to analyze business requirements in a given scenario and then define technical solution architectures that will optimize business results by using Microsoft development tools.

Prerequisite: CGS1100

Pre or Corequisite: CTS2131C

Lec Hrs:48 Lab Hrs:16 Cln Hrs:0 Oth Hrs:0
Fees:7.00

CTS2361C MICROSOFT SYSTEM CENTER CONFIGURATION MANAGER

This Microsoft IT Academy course provides students with the knowledge and skills to plan, deploy, and maintain Windows Servers. The skills students will learn will enable them to perform the duties of a server administrator.

Prerequisite: CTS1347C

Lec Hrs:48 Lab Hrs:16 Cln Hrs:0 Oth Hrs:0
Fees:204.00

CTS2362C MICROSOFT SYSTEM CENTER ACTIVE DIRECTORY

This Microsoft IT Academy course provides students with the knowledge and skills to deploy, manage, and maintain the Microsoft System Center Configuration Manager. The skills developed by students completing this course will help prepare them for the Microsoft System Center Configuration Manager certification.

Prerequisite: CTS2346C

Lec Hrs:48 Lab Hrs:16 Cln Hrs:0 Oth Hrs:0
Fees:204.00

CTS2363C MICROSOFT SHAREPOINT SERVER

This course provides students with the knowledge and skills to deploy and maintain a SharePoint Server in a production environment. The skills developed by students completing this course will help prepare them for the Microsoft Office Share Point Server certification.

Prerequisite: CTS2346C

Lec Hrs:48 Lab Hrs:16 Cln Hrs:0 Oth Hrs:0
Fees:204.00
reflection, metadata, emitting objects services, data. Students will also use System.Drawing and for Windows.

This course provides students with the knowledge and skills necessary to implement application programming concepts and procedures, and to apply these skills to design, develop, and implement solutions based on Access for Windows.

This course starts with an introduction to PL/SQL and proceeds to list the benefits of this powerful programming language. Students are made aware of how to create PL/SQL blocks and application code that can be shared by multiple forms, reports, and data management applications. In addition, creation of anonymous PL/SQL blocks as well as stored procedures and functions are covered in this course.

Students enhance their developer skills by learning to deploy, execute, and manage PL/SQL stored program units for procedures, functions, packages, and database triggers. Understanding the basic functionality of how to debug functions and procedures using the SQL Developer Debugger gives way to refined lines of code. Students also learn to use PL/SQL subprograms, triggers, declaring identifiers, and trapping exceptions. The utilization of some of the Oracle-supplied packages is also in this course.

This course is designed to prepare students for the corresponding Oracle Certified Professional Certification.

This course provides students with the knowledge and skills to design, develop, and manage Oracle database administration. In this class, students will learn how to install and maintain an Oracle database. Students will gain a conceptual understanding of the Oracle database architecture and how its components interact with one another. Students will also learn how to create an operational database and properly manage the various structures in an effective and efficient manner including performance monitoring, database security, user management, and backup/recovery procedures. The lesson topics are reinforced with structured hands-on practices.

This course is designed to prepare students for the corresponding Oracle Certified Administrator Associate exam.

This course provides students with the knowledge and skills to implement application programming concepts and procedures, and to apply these skills to design, develop, and implement solutions based on Access for Windows.

This course is designed to prepare students for the corresponding Oracle Certified Administrator Professional exam.

This course provides a much deeper understanding of possibly the most important skill for working in a Database Administration (DBA) - backup and recovery. The concepts and architecture that support backup and recovery, along with the steps of how to carry it out in various ways and situations, are covered in detail. Also, the DBA learns how to manage memory effectively, and how to perform some performance evaluation and tuning tasks, including using some of the advisories. All types of backup methods are discussed as well as the coordinating jobs inside and outside of the database, and controlling system resource usage are also covered. This course is designed to prepare students for the corresponding Oracle Certified Administrator Professional exam.

This course is designed to prepare students for the Sun Certified Programmer for Java certification. Upon successful completion of this course, the students should be proficient in creating event-driven GUIs using Swing components, creating multi-threaded programs and creating simple Transmission Control Protocol/Internet Protocol (TCP/IP) networked client that communicates through a server through sockets. Students should be able to implement a program from the ground up that could be used in a commercial environment. All topics will be taught using the Java RMI.

This course is designed to prepare students for the Oracle Certified Professional Certification.

This course is designed to prepare students for the Oracle Certified Professional Certification. Additionally students learn to use Dynamic SQL, understand database characteristics when coding using PL/SQL, understand and influence the PL/SQL compiler, and manage dependencies. This course is designed to prepare students for the corresponding Oracle PL/SQL Developer Certification exam.

This course is designed to prepare students for the corresponding Oracle Certified Business Intelligence Professional Certification.

This course is designed to prepare students for the corresponding Oracle Certified Business Intelligence Associate Certification.

This course is designed to prepare students for the corresponding Oracle Certified Business Intelligence Professional Certification.
This course will help students understand and utilize Server Side Scripting technology.

Students will work with Server Side Scripting to create Internet-based applications. Students will learn to connect to databases, work with files, extract data, use HTML forms, and how to build secure applications.

Prerequisite: CTS2854

This course teaches the basic construction features of the JavaScript language, design client-side and platform independent solutions. Students learn how to write, debug, and design programs, script for the JavaScript object model, control program flow, validate forms, animate images, target frames, and create cookies. Students will also understand and use the most popular applications of JavaScript.

Prerequisite: CTS1801C

This course teaches students how to conduct business online using both business-to-business and business-to-consumer e-commerce models. Students will also explore the technological issues associated with constructing an electronic-commerce web site. Students will examine strategies and products available for building electronic-commerce web sites, how sites are managed, and how they can complement an existing business infrastructure. This course, in combination with CTS2855, helps prepare students for the CIW E-Commerce Strategies and Practices certification exam.

Prerequisite: CTS1801C

This course teaches students to connect to databases, work with files, extract data, use HTML forms, and how to build secure applications.

Prerequisite: CTS1801C

This course allows students to explore real world scenarios as an E-Commerce Designer would and focuses on standards, technologies and practices for both business-to-business and business-to-consumer e-commerce models. Students will understand and facilitate relationships among marketing, promotion, customer service, user interaction, purchasing methods, and secure transactions by using SSL and SET, payment gateways, inventory control, shipping and order information and site performance testing and evaluation. This course, in combination with CTS2854, helps prepare students for the CIW E-Commerce Strategies and Practices certification exam.

Prerequisite: CTS2854

This course will help students understand and utilize Server Side Scripting technology.
INTRODUCTION TO DENTISTRY (ATD)  
An overview of dentistry and the dental assisting profession including its history, ethical and legal aspects, duties, professional responsibilities of the dental hygienist, professional organizations, and values and conduct of the dental assistant. Instructor or approval advised. 
Corequisite: DEAI030  
Lec Hrs=32 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00  
DEAI030 PRE CLINICAL (ATD)  
Designed to orient the student to the dental office and the use of sterilization of all instruments and equipment used in the practice of dentistry. 
Corequisite: DEAI030  
Lec Hrs=64 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00  
DEAI030L PRE CLINICAL LABORATORY (ATD)  
Laboratory-clinical portion of DEAI025. Provides hands-on instruction of use and sterilization of all instruments and equipment used in the practice of dentistry. Special fee charged. R/hr’s Lab/ Clinical. Term I. Instructor or approval advised. 
Corequisite: DEAI105L DES100 DES1840  
Lec Hrs=64 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00  
DEAI110 INTRODUCTION TO DENTISTRY II  
A course designed to provide an understanding of the principles of dental hygiene with a detailed study of instrumentation. The course includes data collection and mastery of beginning techniques in dental care.  
Corequisites: DEH1002 DEH2400 DEH2400L  
Lec Hrs=32 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00  
DEH1002 PRECLINICAL DENTAL HYGIENE LAB  
The laboratory portion of this course is designed to provide hands-on instruction in the application of dental hygiene procedures with a detailed study of instrumentation. The course includes data collection and mastery of beginning techniques in dental patient care. 
Prerequisite: BSC2086 BSC2086L DEH1002  
Lec Hrs=64 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=45.33  
DEH1110 ORAL HISTOLOGY AND EMBRYOLOGY  
This course studies the embryonic development and the histology of the components of the oral cavity. It includes a comprehensive study of the cells and tissues of the oral cavity.  
Corequisites: DEH1002 DEH1802 DEH1802L  
Lec Hrs=32 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00  
DEH1602 PERIODONTOLOGY  
This course presents the etiology and classification of periodontal disease and principles of periodontia pertinent to dental hygiene practice. Principles of occlusion and periodontic surgery techniques are discussed through the use of case presentations. 
Prerequisite: DEH1800 DEH1800L DEH2500  
Lec Hrs=48 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00  
DEH1602L PERIODONTOLOGY LAB  
DEH1602L will encompass a continuation of learning current periodontal trends in the dental office. This lab involves the student with hands-on activities to ensure effective patient treatment including phase microscopy, panoramic instrumentation, desensitizing agents, Soft Tissue Management, chemotherapy agents, advanced therapeutic treatment, and treatment procedures. 
Prerequisite: DEH1800 DEH2500  
Lec Hrs=32 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00  
DEH1602L PERIODONTOLOGY LAB  
DEH1602L will encompass a continuation of learning current periodontal trends in the dental office. This lab involves the student with hands-on activities to ensure effective patient treatment including phase microscopy, panoramic instrumentation, desensitizing agents, Soft Tissue Management, chemotherapy agents, advanced therapeutic treatment, and treatment procedures. 
Prerequisite: DEH1800 DEH2500  
Lec Hrs=64 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00  
DEH1800 DENTAL HYGIENE I  
This course provides instruction on removal of hard and soft plaque, treatment of decay, preventive procedures, care of instruments, pre- and post operative procedures, and dental hygiene diagnosis. 
Prerequisite: DEH1002 DEH1002L DEH2400  
Lec Hrs=32 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00  
DEH1800L DENTAL HYGIENE I CLINIC  
This course will provide clinical experience in preventive dental hygiene and oral prophylaxis techniques on patients in the clinic under supervision. 
Prerequisite: DEH1002L DEH1800L DEH2400L  
Lec Hrs=0 Lbl Hrs=0 Cls Hrs=96 Oth Hrs=0 Fees=174.33  
DEH1802 DENTAL HYGIENE II  
A course designed to provide further knowledge in the application of dental hygiene procedures. This course will encompass case information, dental hygiene treatment of advanced periodontal patients, patients with special needs and dental hygiene practice rules and regulations for the state of Florida.  
Prerequisite: DEH1802L DEH1802L  
Lec Hrs=64 Lbl Hrs=0 Cls Hrs=192 Oth Hrs=0 Fees=194.33  
DEH1802L DENTAL HYGIENE II CLINIC  
This course will provide clinical experience in treatment planning; periodontal charting, ultrasonic scaling and comprehensive dental hygiene care.  
Prerequisite: DEH1800L DEH1800L DEH2500  
Lec Hrs=32 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=184.33  
DEH2300 DENTAL PHARMACOLOGY  
This course provides an understanding of the drugs commonly encountered in the dental office. The student will gain knowledge in the origin, physical and chemical properties, modes of administration and effects upon the body system. 
Prerequisite: DEH1002 DEH1002L DEH2400  
Lec Hrs=32 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00  
DEH2400 GENERAL AND ORAL PATHOLOGY  
This course provides principles of general and oral pathology so as to relate to diseases of the oral cavity. There will be emphasis on the importance of the dental hygienist’s recognition of normal and abnormal conditions.  
Prerequisite: DEH1002 DEH1002L DEH2400  
Lec Hrs=32 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00  
DEH2701 COMMUNITY DENTAL HEALTH  
This course will teach the student the concepts of community dental health. Topics covered include the measurement of dental disease, prevention programs, community outreach programs, and simple statistical skills prior to taking the Florida State Board Clinical Examination. 
Prerequisite: DEH1130  
Lec Hrs=32 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00  
DEH2701L COMMUNITY DENTAL HEALTH LAB  
This course is the follow through for DEH2701. The student will apply community health principles by designing and presenting dental health education principles to various community audiences.  
Prerequisite: DEH1130 DEH1150  
Lec Hrs=0 Lbl Hrs=0 Cls Hrs=96 Oth Hrs=0 Fees=0.00  
DEH2840L ADVANCED DENTAL TECHNOLOGY LAB  
This laboratory course is designed to provide the dental hygiene students with basic concepts of computer technology and dental software used in the current practice of dentistry. The course will focus on advanced technologies which include dental software programs, intraoral camera, microscope, digital radiography, clinical assessments and practice management. Dental hygiene students will gain hands on opportunities all software programs assuring their future success.  
Prerequisite: DEH1002 DEH1002L DEH1130 DEH1800 DEH1800L DEH2400 DEH2400L  
Lec Hrs=32 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=81.33  
DEH2940L ADVANCED DENTAL HYGIENE CLINIC  
This course is designed for students who have successfully graduated from Broward College’s Dental Hygiene Program to maintain and/or simple statistical skills prior to taking the Florida State Board Clinical Examination. 
Prerequisite: DEH1130  
Lec Hrs=32 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=16.33  
DEP202 DEVELOPMENTAL PSY I CHILD PSYCHOLOGY  
Study of the concepts and principles of growth and development in infancy and childhood.  
Prerequisite: DEH48  
Lec Hrs=0 Lbl Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00
DEP2004 DEVELOPMENTAL PSYCHOLOGY
This is a developmental psychology course that considers human growth from conception to death. This course covers the physical, cognitive, and psycho-social process of human development. It is designed to give a general overview of the development courses designed specifically to meet the needs of dental assisting students. Emphasis will be placed on the human body structure, functions of its components and associated diseases which affect the total care of the dental patient.
Prerequisite: DEA0025 DES0020
Lec Hrs.=45 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=109.33

DEP2002 DEVELOPMENTAL PSYCH II: ADOLESCENT & YOUNG ADULT
The personal, social and developmental aspects of adolescence and young adulthood will be reviewed in this course. A focus is placed upon the research dealing with the growth and development of problem and adjustments of this life stage. Prerequisite: PSY2012
Lec Hrs.=45 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES0201 DENTAL ANATOMY AND PHYSIOLOGY
The study of head and neck anatomy with emphasis placed on the structure, morphology, and function of the primary and permanent human dentitions. 3 hrs. lec. Term I. Instructor approval or Pre or Corequisite: DEA0025 DES0205 DES0830
Lec Hrs.=45 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES0203 DENTAL MATERIALS
Designed to familiarize the student with the various types of materials, their physical properties and characteristics, proper manipulation and designed application in the practice of dentistry._2 hrs. lec. Term I
Instructor approval or Corequisite: DES0103L
Lec Hrs.=35 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES0301 DENTAL MATERIALS LAB
Laboratory portion of DES0100. Proper manipulation and designed application in the practice of dentistry. Projects demonstrating proficiency in the technical applications and proper manipulation of specified dental materials will be required. Special fee charged.
Instructors approval or 5 hrs lab Term I.
Corequisite: DES0301L
Lec Hrs.=0 Lab Hrs.=45 Clin Hrs.=0 Oth Hrs.=0 Fees=92.33

DES0200 DENTAL RADIOGRAPHY
Fundamentals of radiological science as applied to dentistry will be presented. Special consideration will be given to radiation physics, hazards, biological effects, protection, and control methods. Also proper techniques for exposing, processing and mounting radiographs are included. 2 hrs. Lec Term I.
Instructor's approval or Corequisite: DES0020
Lec Hrs.=48 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES0205L DENTAL RADIOGRAPHY LAB
Laboratory portion of DES0200. Proper techniques for exposing, processing, and mounting radiographs. Laboratory exercise demonstrating proficiency in these techniques will be required.
4 hrs. lab. Term I. Instructor approval or Corequisite: DES0205
Lec Hrs.=45 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=109.33

DES0400 BASIC ANATOMY AND PHYSIOLOGY
A basic overview of the anatomy and physiology of the head and neck will be presented. Special fee charged. 1 hr Lab Term II
Prerequisite: DEA0025 DES0400
Lec Hrs.=40 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES0501 DENTAL OFFICE MANAGEMENT
The study of efficient dental office management. Basic concepts to be presented will include telephone etiquette and communication. Guidelines for better interpersonal relations, methods for effective appointment control, dental bookkeeping systems and practices, business writing techniques, handling of patients records and procedures for tax and insurance forms. Computer proficiency must be demonstrated by the student for course completion.
2 hrs. Lec. Term II Instructor approval or Prerequisite: DEA0000 DEA0025
Lec Hrs.=39 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES0801 CLINICAL PROCEDURES I
Lecture series acquaints the student with the necessary background material and assisting procedures which are fundamental to dental specialty. Special fee charged. 1 hr Lab Term II
Instructor's approval or Prerequisite: DEA0025 DEA0800L
Lec Hrs.=30 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES0801L CLINICAL PROCEDURES I LAB
Practicum phase is required for each student to receive closely supervised individual instruction in all phases of chairside assisting. Special fee charged. 1 hrs. Lab Term II. Instructor's approval or Prerequisite: DEA0025 DEA0800L
Lec Hrs.=0 Lab Hrs.=165 Clin Hrs.=0 Oth Hrs.=0 Fees=192.33

DES0802 CLINICAL PROCEDURES II
Practicum phase is a continuation of DES0801L with the addition of a supervised externship utilizing dental offices and public health facilities in the community. Special fee charged. Field experience. 30 hrs. minimum per week. Term III, Session II.
Prerequisite: DEA0025 DEA0802L DES0801L DES0801
Corequisite: DES0802L
Lec Hrs.=30 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=16.33

DES0802L CLINICAL PROCEDURES II LABORATORY
Practicum phase is a continuation of DES0801L with the addition of a supervised externship utilizing dental offices and public health facilities in the community. Special fee charged. Field experience. 30 hrs. minimum per week. Term III, Session II.
Prerequisite: DEA0025 DEA0802L DES0801L DES0801
Corequisite: DES0802L
Lec Hrs.=0 Lab Hrs.=135 Clin Hrs.=0 Oth Hrs.=0 Fees=16.33

DES0830 EXPANDED FUNCTIONS I
The course is designed to provide the basic knowledge necessary to perform the more complex expanded functions permitted by the rules and regulations of Florida State Board of Dentistry. 1 hr. Term II. Instructor approval or Prerequisite: DEA0025 DEA0802L DES0830
Lec Hrs.=5 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES0831L EXPANDED FUNCTION II LAB
This course is designed to be a continuation of dental auxiliary expanded functions I. It will provide the basic knowledge necessary to perform the more complex expanded functions permitted by the rules and regulations of Florida State Board of Dentistry. Special fee charged.
5 hrs. lab. Term II Instructors approval or Prerequisite: DEA0025 DEA0802L DES0830
Corequisite: DES0801 DES0801L DES0801L DES0830
Lec Hrs.=30 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=189.33

DES0844 PREVENTIVE DENTISTRY
Emphasis is placed on the development of a plaque control program to meet the needs of dental assistants. Emphasis will be placed on the human body structure, functions of its components and associated diseases which affect the total care of the dental patient.
Instructor approval or Pre or Corequisite: DEA0025
Lec Hrs.=48 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES0920 DENTAL ANATOMY AND PHYSIOLOGY (ATD)
A basic anatomy and physiology course designed specifically to meet the needs of dental assisting students. Emphasis will be placed on the human body structure, morphology, and function of the primary and permanent human dentitions.
Corequisite: DEH1000 DES1200 DES1302
Lec Hrs.=48 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES0858 PAIN CONTROL AND DENTAL ANESTHESIA
This course provides a study of agents used in dentistry for local anesthesia and pain control.
Prerequisite: DEH1102 DEH1102L DEH1102H DEH1100L DEH1100 DEH2400
Corequisite: DEH1130 DES1200 DEH1120L DEH1120H DEH1120
Lec Hrs.=16 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES1100 DENTAL MATERIALS (ATD)
Designed to familiarize the student with the various types of materials, their physical properties and characteristics. proper manipulation and designed application in the practice of dentistry.
Instructors approval or Corequisite: DES1101L
Lec Hrs.=32 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES1101L DENTAL MATERIALS LAB (ATD)
Laboratory portion of DES1100. Proper manipulation and designed application in the practice of specified dental materials will be required.
Corequisite: DES1110
Lec Hrs.=40 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=92.33

DES1200 DENTAL RADIOGRAPHY (ATD)
Fundamentals of radiological science as applied to dentistry will be presented. Special consideration will be given to radiation physics, hazards, biological effects, protection, and control methods. Also proper techniques for exposing, processing and mounting radiographs are included.
Corequisite: DES1200L
Lec Hrs.=32 Lab Hrs.=40 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES1200L DENTAL RADIOGRAPHY LAB (ATD)
Laboratory portion of DES1200. Proper techniques for exposing, processing, and mounting radiographs. Laboratory exercise demonstrating proficiency in these techniques will be required.
Corequisite: DES1200L
Lec Hrs.=48 Lab Hrs.=0 Clin Hrs.=40 Oth Hrs.=0 Fees=109.33

DES1404 BASIC ANATOMY AND PHYSIOLOGY (ATD)
A basic anatomy and physiology course designed specifically to meet the needs of dental assisting students. Emphasis will be placed on the human body structure, morphology, and function of the primary and permanent human dentitions.
Corequisite: DEH1105 DES1200 DES1302
Lec Hrs.=48 Lab Hrs.=0 Clin Hrs.=0 Oth Hrs.=0 Fees=0.00

DES1508 PAIN CONTROL AND DENTAL ANESTHESIA
This course provides a study of agents used in dentistry for local anesthesia and pain control.
**DES 1805L. CLINICAL PROCEDURES I (ATD)** (3)
(2) Lecture series acquaints the student with the necessary background material and assisting procedures involved in each dental specialty. Special fee charged.
Prerequisite: DEA 1030 DEA 1030L
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

**DES 1850L. CLINICAL PROCEDURES I (ATD)** (4)
(2) Practicum phase provides the opportunity for each student to receive closely supervised individual instruction in all phases of chairside assisting. Special fee charged. Instructor's approval required.
Prerequisite: DEA 1030 DEA 1030L
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

**DES 1806. CLINICAL PROCEDURES II (ATD)** (1)
(2) The course is designed to be a continuation of dental auxiliary expanded functions I. It will provide the student with the necessary background material and assisting procedures needed in each dental specialty. Special fee charged.
Prerequisite: DEA 1030 DEA 1030L DES 1832
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

**DES 1807. CLINICAL PROCEDURES II (ATD)** (1)
(2) The course is designed to be a continuation of DES 1806 with the addition of a supervised externship program utilizing dental offices and public health facilities in the community. Special fee charged. Field experience.
Prerequisite: DEA 1030 DEA 1030L DES 1806L
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

**DES 1808. CLINICAL PROCEDURES III (ATD)** (4)
(2) The course is designed to be a continuation of DES 1807 with the addition of a supervised externship program utilizing dental offices and public health facilities in the community. Special fee charged. Field experience.
Prerequisite: DEA 1030 DEA 1030L DES 1806L DES 1808
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

**DES 1812. CLINICAL PROCEDURES IV (ATD)** (5)
(2) The course is designed to be a continuation of DES 1808 with the addition of a supervised externship program utilizing dental offices and public health facilities in the community. Special fee charged. Field experience.
Prerequisite: DEA 1030 DEA 1030L DES 1808L DES 1812
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 16.53

**DES 1820. CLINICAL PROCEDURES V (ATD)** (5)
(2) The course is designed to be a continuation of DES 1812 with the addition of a supervised externship program utilizing dental offices and public health facilities in the community. Special fee charged. Field experience.
Prerequisite: DEA 1030 DEA 1030L DES 1808L DES 1812L DES 1820
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 35.00

**DES 1821. CLINICAL PROCEDURES VI (ATD)** (4)
(2) The course is designed to be a continuation of DES 1820 with the addition of a supervised externship program utilizing dental offices and public health facilities in the community. Special fee charged. Field experience.
Prerequisite: DEA 1030 DEA 1030L DES 1808L DES 1812L DES 1820L DES 1821
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

**DES 1822. CLINICAL PROCEDURES VII (ATD)** (5)
(2) The course is designed to be a continuation of DES 1821 with the addition of a supervised externship program utilizing dental offices and public health facilities in the community. Special fee charged. Field experience.
Prerequisite: DEA 1030 DEA 1030L DES 1808L DES 1812L DES 1820L DES 1821L DES 1822
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

**DES 1823. CLINICAL PROCEDURES VIII (ATD)** (5)
(2) The course is designed to be a continuation of DES 1822 with the addition of a supervised externship program utilizing dental offices and public health facilities in the community. Special fee charged. Field experience.
Prerequisite: DEA 1030 DEA 1030L DES 1808L DES 1812L DES 1820L DES 1821L DES 1822L DES 1823
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

**DES 1824. CLINICAL PROCEDURES IX (ATD)** (5)
(2) The course is designed to be a continuation of DES 1823 with the addition of a supervised externship program utilizing dental offices and public health facilities in the community. Special fee charged. Field experience.
Prerequisite: DEA 1030 DEA 1030L DES 1808L DES 1812L DES 1820L DES 1821L DES 1822L DES 1823L DES 1824
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

**DES 1825. CLINICAL PROCEDURES X (ATD)** (5)
(2) The course is designed to be a continuation of DES 1824 with the addition of a supervised externship program utilizing dental offices and public health facilities in the community. Special fee charged. Field experience.
Prerequisite: DEA 1030 DEA 1030L DES 1808L DES 1812L DES 1820L DES 1821L DES 1822L DES 1823L DES 1824L DES 1825
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

**DES 1826. CLINICAL PROCEDURES XI (ATD)** (5)
(2) The course is designed to be a continuation of DES 1825 with the addition of a supervised externship program utilizing dental offices and public health facilities in the community. Special fee charged. Field experience.
Prerequisite: DEA 1030 DEA 1030L DES 1808L DES 1812L DES 1820L DES 1821L DES 1822L DES 1823L DES 1824L DES 1825L DES 1826
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

**DES 1827. CLINICAL PROCEDURES XII (ATD)** (5)
(2) The course is designed to be a continuation of DES 1826 with the addition of a supervised externship program utilizing dental offices and public health facilities in the community. Special fee charged. Field experience.
Prerequisite: DEA 1030 DEA 1030L DES 1808L DES 1812L DES 1820L DES 1821L DES 1822L DES 1823L DES 1824L DES 1825L DES 1826L DES 1827
Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00
This course concentrates on entry-level skills in creating and implementing basic multimedia applications. The topics are covered in both theory and practice (hands-on). The software and hardware used in this course are appropriate for students who have little or no experience in multimedia design, authoring, and product delivery. The student will use a multimedia program to create and output a project. Students will learn that multimedia can be used to enhance learning in other course components and to produce higher-quality output.

**REFERENCES**


This course focuses on fundamental transportation infrastructure, including airports, harbors, and land transportation systems. Students will learn the basics of transportation systems and how they impact society.

**Course Details**

- **Lec Hrs:** 48
- **Lab Hrs:** 0
- **Clin Hrs:** 0
- **Other Hrs:** 0
- **Fee:** 20.00

**Prerequisites:**

- DSC 2101C
- DSC 2115C
- DSC 2120C
- DSC 2150C
- DSC 2160C
- DSC 2165C

**Description:**

This course provides an overview of transportation and border security. Students will explore the various modes of transportation and how they impact society. The course will focus on the importance of border security and the challenges associated with it. Students will learn about the different types of border security measures and how they are implemented.

**Course Objectives:**

1. Understand the fundamental concepts of transportation and border security.
2. Identify the various modes of transportation and their impact on society.
3. Understand the challenges associated with border security.
4. Learn about the different types of border security measures and how they are implemented.

**Assessment Methodology:**

- Written assignments
- Group projects
- Quizzes
- Mid-term exam
- Final exam

**Grading Policy:**

- A: 90-100%
- B: 80-89%
- C: 70-79%
- D: 60-69%
- F: 0-59%

**Course Goals:**

- To provide students with a comprehensive understanding of transportation and border security.
- To equip students with the knowledge and skills to address the challenges associated with transportation and border security.
- To prepare students for careers in the transportation and border security fields.
EAP1640C ESL ADVANCED COMPOSITION II
This is an advanced composition course in English for speakers of other languages. Students are given intensive practice in the writing of the multi-paragraph essay for the various modes. Emphasis is given to clear and logical development of ideas. Students will receive advanced grammar skills and precise vocabulary usage to essay writing. With a D or a F, a student must repeat EAP1640C.
Prerequisite: EAP1540C
Fee: 0.00

ECO2013 PRINCIPLES OF MACROECONOMICS
An introductory course covering basic economic problems and concepts. Topics discussed and analyzed include basic economic principles, unemployment and inflation. Students will recognize the role of households, businesses and governments in the market economy and in their own lives. This is a writing credit course.
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees: 0.00

ECO2023 PRINCIPLES OF MICROECONOMICS
An introductory course stressing microeconomic theories. Topics studied include the theory and application of supply and demand elasticity; theory of consumer demand, utility, production and cost theory including cost analysis of diminishing returns; the firm's profit maximizing behaviors under market models ranging from pure competition to pure monopoly; the theory of economic status distribution; comparative advantage, trade policies exchange rates, balance of payments, and other international issues. This is a writing credit course.
Prerequisite: Completion of prep reading obligations
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees: 0.00

ECO2229 MONEY AND BANKING
A general survey of the economics of money and banking covering the evolution, nature and functions of banking systems and its regulation; monetary standards; structure and functions of the Federal Reserve System; monetary policy, monetary theory and the price level and the role of banking and money in international finance.
Prerequisite: ECO2013
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees: 0.00

ECO2973 INTERNATIONAL ECONOMICS
An exploration of why nations trade, the effects of trade on the economy; international commercial policy; balance of payments; exchange rate determination, the Eurocurrency markets, and international trade institutions.
Prerequisite: ECO2023
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees: 0.00

ECS2390 THE ECONOMY OF SPAIN
An analysis of the Spanish economic system covering the historical development in the public and private sectors; agriculture and industry; and foreign trade relations. Only offered in conjunction with the Semester-In-Spain program.
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees: 0.00

EFD1005 INTRODUCTION TO THE TEACHING PROFESSION
This is a six-week course including historical, sociological, and philosophical foundations of education, governance and finance of education, educational law, moral and ethical issues and the professionalism of teaching. Students will be provided exposure to the Florida Educator Accomplished Practices, Sunshine State Standards, and the Professional Educator Competency. Students will complete a minimum of 15 hours of field experience in a K-12 setting. The field experience should be performed at actual schools or similar settings and not via virtual modes of field or Internet.
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=15 Fees: 0.00

EFD2070 PERSPECTIVES IN EDUCATION
A study of the principles of American education. Emphasis is placed on the history of education, philosophical, sociological, and legal foundations of education in America and their impact on curriculum development, learning, and the teaching profession.
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees: 0.00

EFD2085 INTRO TO DIVERSITY & EXCEPTIONALITIES FOR EDU
Designed to prepare pre-service educators, this course provides the opportunity to explore issues of diversity, including an understanding of the influence of culture and ethnicity/race, gender, religion, exceptionality, language, and age upon the educational experience. Students will explore personal attitudes toward diversity and exceptionalities. Students will be provided exposure to the Florida Educator Accomplished Practices, Sunshine State Standards, and Professional Educator Competencies. A minimum of 15 hours of field experience is required with diverse populations of children in schools or similar settings that are not virtual.
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=15 Fees: 0.00

EFD2890 INSTRUCTIONAL STRATEGIES
This course prepares participants to become proficient in planning, organizing, and implementing instructional strategies for the contemporary PK-12 classroom. A variety of research-validated instructional strategies are reviewed and those that support constructivist approaches to classroom organization and student learning. Participants will be required to take the Florida Teacher Certification Assessment. Final exam will be comprehensive and will include multiple choice questions, essay questions, and standards for performance assessment.
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=10 Fees: 0.00

EFD2900 INTRODUCTION TO EDUCATIONAL PSYCHOLOGY
This course provides an introduction to psychological principles relevant to effective teaching and learning. Stage theories will be used to address issues of pupil variability. The course will enable students to design and use objectives. Units on instruction will include behavioral, information processing, humanistic and cognitive theories. Finally, measurement, evaluation as well as classroom management, will be addressed.
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees: 0.00

EFD4004 PRINCIPLES OF EDUCATIONAL PSYCHOLOGY
This course provides a foundation in educational psychology and its application to classroom settings. Special emphasis is placed on development, learning theory, cognition, motivation, diversity, teaching, and assessment.
Pre or Corequisite: EFD1005 EFD2085 EME2040
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees: 0.00

EED1200 EARLY CHILDHOOD EDUCATION
This course reviews the history and present day aspects of early childhood programs for infants, toddlers, preschool, and school children. Basic principles and foundations of early-childhood education are covered.
Lec Hrs=48 Lab Hrs=0 Clin Hrs=15 Oth Hrs=0 Fees: 0.00

EED1603 CHILD GUIDANCE
This course provides child guidance and group management techniques to foster the development of self-esteem, self-control, and social skills in young children.
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees: 0.00

EET1015C DC CIRCUITS
This is a first course in electric circuits. Upon completion of this course the student should demonstrate an understanding of the definitions and interrelationship of voltage, current and power in circuits containing passive circuit elements and multiple sources. Extensive laboratory experience is included.
Prerequisite: EET104C
Lec Hrs=32 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees: 0.00

EET1025C AC CIRCUITS
Upon completion of this course the student shall demonstrate a knowledge of circuit analysis using alternating voltage sources, including the behavior of resistors and reactive passive circuit elements, and frequency and transient response. Magnetic circuits, resonance and ideal transformers are also introduced. Extensive laboratory experience is included.
Prerequisite: EET104C MAC1105
Lec Hrs=32 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees: 0.00

EDT104C INTRODUCTION TO ELECTRONICS
This course provides an introduction to the basic fundamentals, terminology, and applications used in the electronics industry. The course will include circuit theory principles, electronic components, transistor usage, amplifiers, power supplies, digital logic, and electronic instrumentation. This course will also include some basic laboratory exercises to strengthen the topic coverage as it pertains to basic measurement involving both analog and digital circuits.
Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees: 0.00
EET141C  INTRODUCTORY ELECTRONICS I (3)
This course is designed for students enrolled in the Technical College's Applied Technology Division. It provides an introduction to basic electronics concepts such as Kirchhoff's laws, basic circuit symbols, and Ohm's law. The course will also cover the basics of semiconductor devices and laboratory measurements using a high-quality oscilloscope. The topics covered will include: circuit analysis, semiconductor devices, and troubleshooting.
Prerequisite: EET1084

EEX3094  MANAGEMENT OF EXCEPTIONAL STUDENTS (4)
This course is designed to provide information on behavior management and consultation skills. Students will gain a basic knowledge of how to create and maintain a safe and healthy environment for learning in the exceptional classroom as well as the inclusive classroom.
Prerequisite: EEX3011

EEX202  ELECTRONIC COMMUNICATIONS (4)
This course introduces students to the fundamentals of electronic communications systems including pulse amplitude, pulse width modulation, pulse modulation, and digital communication. Students will perform hands-on laboratory exercises using state-of-the-art equipment.
Prerequisite: EET2142

EEX3103  TEACH K-12 STUDENTS WITH LANG AND COMM DISORDERS (4)
This course is designed for students enrolled in the Bachelor of Science Degree program in Teacher Education. It is designed to prepare pre-professional educators for the student teaching internship. Pre-professional educators work closely with classroom teachers and have the opportunity to teach both small and large group activities. This course is designed to develop the competencies related to instruction, including curriculum planning, instruction, daily scheduling, record keeping, evaluation, classroom management, reporting to parents, professional organizations and teaching ethics. Students will be observed at least 50 school-based hours in the classroom.
Prerequisite: EEX3011, EEX4293

EEX494  STUDENT TEACHING INTERNSHIP IN ESE (2)
This course is designed for students enrolled in the Bachelor of Science Degree program in Teacher Education. It is designed to prepare pre-professional educators for the student teaching internship. Pre-professional educators work closely with classroom teachers and have the opportunity to teach both small and large group activities. This course is designed to develop the competencies related to instruction, including curriculum planning, instruction, daily scheduling, record keeping, evaluation, classroom management, reporting to parents, professional organizations and teaching ethics. Students will be observed at least 50 school-based hours in the classroom.
Prerequisite: EEX3011, EEX4293

EEX501  INTRODUCTION TO EXCEPTIONAL STUDENT EDUCATION (3)
This course will focus on the characteristics and needs of students with disabilities. The course content will include the different types of programs and services available to exceptional student education (ESE) students. The course will cover the process of identification, evaluation, and placement of exceptional students. Students will be encouraged to develop strategies for working effectively with students with disabilities.
Prerequisite: EEX3011

EEX501  INTRODUCTION TO ENGINEERING (3)
This course is a basic introduction to engineering. It will explore the various engineering fields, engineering problem solving, and basic math and physics used by engineers. Other topics such as safety, ethics, and engineering communications will also be addressed.
Prerequisite: EEX501
Curriculum anatomy and physiology objectives will particular attention placed on the nervous, by the paramedic in the prehospital field area assessment and management of emergency patients structure and function of the human body. The EMS 2010 BODY SYSTEMS FOR THE PARAMEDIC (3) This course presents the anatomical and functional responsibilities in the Medical Incident Command (MIC), Haz-Mat and crime scene awareness. The student is expected to demonstrate command and skill proficiency in patient care scenarios appropriate for beginning Paramedic practice. Paramedic Curriculum objectives for Module 2, and Module 5, Units 1,2. EMS2654 Paramedic SCIENCE III - TRAUMA (3) Topics deal with Trauma patient care including trauma systems/mechanisms of injury, hemorrhage and shock, of soft tissue trauma, and burns. Traumas of the head and facial area, spinal of thoracic, abdominal and musculoskeletal system is also covered. Material includes 1998 U.S. Department of Transportation, (DOT), National Paramedic Curriculum objectives for Module 4. EMS2654 Lab: EMS2613, EMS2641 EMS2613. EMS2641 Final skills lab dealing with scenarios covering EMS2654 Paramedic SCIENCE III - MEDICAL EMERGENCIES (3) Topics include Cardiology to include an introduction to 12 Lead ECG, recognition of signs & symptoms of illness and injuries and in the proper procedures of emergency care. Successful completion of EMS119, 119L, 1141 and 1241 provide eligibility for Florida State EMS2615. EMS2615 Paramedic SCIENCE IV - HOSPITAL CLINICAL (1) Final skills lab dealing with scenarios covering all aspect of the curriculum. Demonstration of skill competencies for Certification in ACLS, PPEP, 12 Lead ECG, Support, Emergency Management of Acute Stroke, Prehospital Management of Traumatic Brain Injury and Trauma Life EMS2620 BODY SYSTEMS FOR THE PARAMEDIC (3) This course presents the anatomical and functional structure and function of the human body. The general concepts of anatomy and physiology for the assessment and management of patients by the paramedic in the prehospital field area will be emphasized. The interaction of the body systems as they maintain homeostasis with particular attention placed on the nervous, cardiovascular and respiratory systems will be reviewed. United States Department of Transportation (USDOT) National Standard Paramedic Curriculum anatomy and physiology will be included. Lec Hrs:48 Lab Hrs:2 Lab Cls Hrs:0 Oth Hrs:0 Fees:48.00 EMS2620 Paramedic SCIENCE II Topics include general principles of pathophysiology, pharmacology, venous access and medication administration. Patient Assessment including history taking, techniques of physical examination, assessment procedures, clinical decision making, and radio communications are included. Material includes 1998 U.S. Department of Transportation, (DOT), National Paramedic Curriculum objectives for Module 1, Units 6,7,8 and Module 5, Units 1-5. Prerequisite: EMS2653 EMS2631, EMS2650 Lab Hrs:48 Lab Cls Hrs:0 Oth Hrs:0 Fees:48.00 EMS2631 EMS LEADERSHIP Introduces the student to professional issues in EMS through special projects. Prerequisite: EMS and paramedic core courses. 32 hrs. Lec Term I. (Term 1 only) Lec Hrs:32 Lab Hrs:0 Cls Hrs:0 Oth Hrs:0 Fees:0.00 EMS2639 Paramedic REVIEW RECERTIFICATION This course is based on the department of transportation for the Paramedic refresher training course and is designed to review and update the graduate in the delivery of emergency medical services. Successful completion of the course with a grade of >C or higher provides eligibility for State of Florida Paramedic Recertification. Lec Hrs:32 Lab Hrs:0 Cls Hrs:0 Oth Hrs:0 Fees:53.33 EMS2621 Paramedic SCIENCE I Topics deal with EMS systems, Paramedic role and responsibilities, Paramedic well-being, injury, and disease prevention. Basic concepts and principles for certification in Paramedic practice are included. Material includes U.S. Department of Transportation, (DOT), National Paramedic Curriculum objectives for Module 1, Units 1-5, 9, 10, Module 3, Unit 6, and Module 8. Prereq: EMS2610 EMS2631 EMS2650 Lec Hrs:48 Lab Hrs:0 Cls Hrs:0 Oth Hrs:0 Fees:48.00
EMSS643 PARAMEDIC SCIENCE - HOSPITAL CLINICAL II

Second of three hospital courses continuing Advanced Life Support, directed, supervised experiences on Advanced Life Support (ALS) vehicles. Emphasis on clinical activities related to patient care with particular focus on the application of didactic material in the rescue field. Provides for directed, supervised experiences on Advanced Life Support (ALS) vehicles. Emphasis on clinical activities and observations related to the US Department of Transportation (DOT) National Paramedic Curriculum, Module 1 and 8. Activities limited to practice of basic life support skills, assisting as a member of the EMS team and observation of paramedic level skills and activities. Documentation of patient care observations and patient care experiences using web based data collection system is required. Student health, accident and liability insurance required. Corequisites: ENC0101, EMS2691, EMS2692. Lec Hrs=0 Lab Hrs=0 Clin Hrs=54 Oth Hrs=0 Fees=30.35

EMSS651 PARAMEDIC SCIENCE II FIELD

Second of four field courses that prepares for directed, supervised experiences on Advanced Life Support (ALS) vehicles. Emphasis on clinical experiences related to patient care with special emphasis on dealing with patient care with special emphasis on dealing with cardio-respiratory problems. Invasive procedures for IV therapy and medication administration are introduced. Data recording of skill competencies on web based computer system is required. Health and Liability insurance required. Corequisites: EMS2651, EMS2652, EMS2653 Lec Hrs=64 Lab Hrs=0 Clin Hrs=84 Oth Hrs=0 Fees=16.35

EMSS652 PARAMEDIC SCIENCE III FIELD

Third of four field courses stressing continuation of Advanced Life Support Skills for the Paramedic student. Emphasis on clinical experiences related to trauma clinical emergencies, obstetrics, pediatrics, geriatrics and specialty areas. Health and Liability insurance required. Corequisites: EMS2691, Clin Hrs=84 Oth Hrs=0 Fees=16.35

EMSS663 PARAMEDIC SCIENCE - HOSPITAL CLINICAL II

Last hospital course involving patient care in a variety of emergency and health care agency sites. Clinical experiences with patients of all age groups and medical/traumatic conditions is continued. Data recording of skill competencies on web based computer system is required. Health and Liability insurance required. Corequisites: EMS2662, EMS2663, EMS2664, EMS2665, Lec Hrs=0 Lab Hrs=0 Clin Hrs=42 Oth Hrs=0 Fees=55.35

EMSS672 PARAMEDIC SCIENCE I FIELD

First of four field courses that introduces students to the application of didactic material in the rescue field. Provides for directed, supervised experiences on Advanced Life Support (ALS) vehicles. Emphasis on clinical activities and observations related to the US Department of Transportation (DOT) National Paramedic Curriculum, Module 1 and 8. Activities limited to practice of basic life support skills, assisting as a member of the EMS team and observation of paramedic level skills and activities. Documentation of patient care observations and patient care experiences using web based data collection system is required. Student health, accident and liability insurance required. Corequisites: ENC0101, EMS2691, EMS2692. Lec Hrs=0 Lab Hrs=0 Clin Hrs=54 Oth Hrs=0 Fees=30.35
ENY1001 BUGS AND PEOPLE
A survey course in entomology for non-majors. The focus will be on both beneficial and detrimental impacts of the early modern period on atheni and their role in the environment. Interactions with man, such as insects as disease vectors, agricultural pests, indicators of environmental health, pollution and forensic crime-solving tools will be given emphasis. Both current and historical events and their impacts will be examined. Students will be given a non-entomologist’s view and expand their knowledge about biodiversity and diversity of the largest group of animals on the Earth.

Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=0.00

ESC4047 WEATHER AND CLIMATE
This course provides an introduction to general meteorology and atmospheric sciences. It includes the compostion and structure of the atmosphere and characteristics that affect it, such as temperature, humidity and pressure. The course examines the development of meteorological phenomena, such as fronts, thunderstorms, weather fronts and cloud formation. Finally, climatic concepts will be explored. This course maintains scientific integrity and addresses technologies used in both meteorological and climatic studies.

Pre or Corequisite: MAC1105

Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=0.00

ETC1250C MATERIALS AND PROCESS
Introduces the materials and process commonly used in building construction. Provides background relating to physical properties, chemical composition, and costs. Includes a study of standard manufacturing processes and recent methods of application; and ASTM procedures for testing materials and steel, soils, and other building materials.

Lec Hrs=32 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=0.00

ETD1320 BASIC CAD
First course in the AutoCAD design (CAD) lab work using AutoCAD software. Topics include fundamentals of DOS, AutoCAD command structure, setting units and limits, primitive shapes, layering, use of editing tools, grid, snap, and axis commands. Assignments requiring extensive use of the CAD lab. Each lab hour counts as 1 lecture hour.

Lec Hrs=16 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=0.00

ETD2350C ADVANCED CAD
Covers additional topics in AutoCAD which include blocks, move and copy, array, mirror, text, text styles, 3D, and isometric view development of macro operations. As in basic CAD, extra lab hours are available.

Pre-requisite: TDD1320

Lec Hrs=16 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=0.00

ETD2410C INTRODUCTION TO SOLAR PHOTOVOLTAIC (PV) SYSTEMS
This course introduces a delivery to background essential theory, principles, and future of solar photovoltaic energy technologies. Focuses on solar photovoltaic system integration and the electrical grid. This course is the first of a two-part series and will introduce the student to the North American Board of Certified Engineers Practitioner (PBEE) certification process.

Lec Hrs=32 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=0.00

ETD2420C INSTALLATION OF SOLAR PHOTOVOLTAIC (PV) SYSTEMS
This course covers the design and installation of photovoltaic home systems. Includes detailed step-by-step procedures used for installation of solar energy systems. Focuses on practical application of solar photovoltaic systems.

Lec Hrs=16 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=0.00

ETD3400C QUALITY ASSURANCE
This course covers the design and installation of photovoltaic home systems. Provides a practical and useful real world job related setting. The course includes the following topics:

- Quality assurance concepts
- Quality assurance principles
- Quality control techniques
- Quality assurance methods
- Quality assurance standards

This course is designed for students who wish to pursue a career in quality assurance. Each lab hour counts as 1 lecture hour.

Lec Hrs=32 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=0.00

BrowardCollege www.broward.edu
Prerequisite: CHM1025 CHM1025L

comprehensive and project-specific quality, precision, accuracy, and detection limits; writing analytical methods; documentation procedures; sampling of water, soils, sediments and hazardous analysis of environmental samples. The laboratory

Field trips include inspection of local collection, treatment and disposal of wastewater. A single course covering the sources, treatment and related subjects are discussed. Placement by Testing Department.

This course examines objectives and criteria of South Florida building code requirements for various types of occupancies, classification by types of construction, building materials, building legislation regulations and standards are discussed. Additional areas of study include the inspection process, fire code enforcement, local decisions, fire investigations, records and reports.

This course offers study in evolution of fire protection. Basic hydraulic measuring units, standards, and other pertinent material for fire protection.

Course examines the decision of fire sprinkler and standpipe systems, chemical systems, detection and alarm systems.

Examiners in instructor's role and responsibility in the teaching/learning process, introduction of teaching/learning styles, job task analysis, learning objectives, lesson planning and development, testing and evaluation, and administration of programs. 3 hrs. lect.

This course covers the study of Emergency Management, including the current organizational and company level field operations will be analyzed with application of course concepts. 3 hrs, lec.

This course examines the study of the arson and investigation problems related to such materials. Study of types of chemicals and processes, laws of federal, state and local levels pertaining to such materials.

This course examines the implementation of laws of federal, state and local levels pertaining to radioactive materials; legislative regulations and standards are evaluated. Distinctions will be discussed between the legal considerations associated with the successful prosecution of arson cases. Specific areas of concern include: statements, interviews, interrogations, depositions, and written reports. Expert qualification and effective courtroom testimony will be examined and evaluated. Distinctions will be discussed between civil and criminal situations. Students will be required to prepare a case for preemption from evidence gathered and/or provided in class, and present their testimony in a mock trial activity.

This course is an in-depth study of the details and dynamics of fire investigations including conduct of appropriate investigation including conduct of appropriate interview, interrogations, depositions, and qualitative analysis of data to determine whether or not prosecution for the crime of arson is indicated. Special situations/ problems will be examined including the arsonist's use of explosive and hazardous materials. Motives for arson will be discussed, and distinctions made between civil and criminal situations.

This course is designed to provide the public educator. Case study topics include fire sprinkler and standpipe systems, chemical systems, detection and alarm systems.

This course examines the implementation of laws of federal, state and local levels pertaining to hazardous materials, hydrocarbons, oxidation-reduction chemistry, and residues of pyrolysis. Topics covered include atomic structure, the periodic table, chemical bonding, chemical measurement, stoichiometry, and the study of chemical properties according to group, class, and reactivity. Sample collection and analysis is included as a practical component of the course. Prerequisite: Municipal Fire Inspector Certification.

This course examines the study of the physical environment, its importance of fire protection; public fire educator. Case study topics include fire sprinkler and standpipe systems, chemical systems, detection and alarm systems.

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This course prepares the student to serve effectively as an organizational spokesperson, according to current communications and the role of the Public Information Officer’s role in the Incident Command System. This course is part of the Fire Officer II and Fire Inspector II State Certification programs.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FPFP270 COMPANY OFFICER

Study of supervisory and leadership principles, motivation, leadership, morale, discipline, work planning and other supervisory responsibilities related to fire department operations.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FPFP271 FIRE SERVICE COURSE DESIGN

Course covers the principles of effective curriculum design in the Fire Service field. It stresses the principles of adult and student-centered learning. Students learn to design courses and units that address learning, performance, and behavioral objectives as related to Fire Science.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FPFP270 ETHICAL AND LEGAL ISSUES FOR THE FIRE SERVICE

This course deals with the entire spectrum of issues facing today’s fire service leaders. Topics include: labor relations, human rights and diversity, conflicts of interest and frameworks for ethical decision-making are used. Case studies are used to explore contemporary issues.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FPFP278 FIRE DEPARTMENT ADMINISTRATION

An introduction into management, history and principles of fire department budgeting, administration and planning. Designed for community fire protection programs. Relationships between the insurance industry, the professional community, contemporary management and planning concepts are analyzed.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FPFP2800 EMERGENCY MANAGEMENT PUBLIC EDUCATION PROGRAMS

The design, development and delivery of emergency disaster safety and informational programs to the public, including targeting program audiences and evaluating the effectiveness of the programs are analyzed.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FPFP281 FIREFIGHTING TACTICS & STRATEGY

This course applies the basic principles learned in FPFP160 to specific fire problems, e.g., managing community forests, flammable gases and liquids, lumberyards, department stores, residential, supermarkets, and warehouses. Included are additional pointers on solving these problems and those of a miscellaneous nature; also command responsibility. It will also include the history, development, theory and criticism of film art, as well as the basic principles of film making and film production. Prerequisite: FIL1280.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FIL12800 INTRODUCTION TO FILM STUDIES

This course is designed to provide an introduction to film as an art form, cultural product and social artifact. It will include understanding of basic analytical and technical forms, concepts, issues and development of critical skills. It will also include analysis of a variety of topics such as film history, development, theory, and criticism of film art. Prerequisite: FIL1280.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FIL2232C FILM PRODUCTION II

Building on the basic concepts of film production I, students continue to develop an understanding of professional digital film production with emphasis on the documentary and/or commercial style production. Again, industry positions, procedures and protocols will be emphasized during the production of several short narrative motion pictures. Prerequisite: FIL1280C/FIL1552C.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FIL2234C FILM PRODUCTION III

Building on the concepts of the first two Film Production Courses, students continue to develop an understanding of professional digital film production with emphasis on the documentary and/or commercial style production. Again, industry positions, procedures and protocols will be emphasized during the production of several short narrative motion pictures. Prerequisite: FIL1280C/FIL1292C/FIL1552C.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FIL2235C FILM EDITING II: SOUND EDITING

Basic theory and practice of sound editing using industry standard software for various types of video and audio productions. Prerequisite: FIL1280C.

Lec Hrs=16 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FIL2791C MOTION PICTURE VISUAL POST PRODUCTION I

Basic theory and practice of computerized photographic retouching, digital video compositing, and motion graphics for narrative motion pictures using industry standard software such as Photoshop and After Effects. Prerequisite: FIL1280C.

Lec Hrs=16 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FIN100 PERSONAL FINANCE

This course provides a survey of the areas of personal economic problems with which all individuals must contend. Course content includes basic budgeting, basic budgeting, retirement planning, and other topics relevant to the acquisition, management and future management of personal assets and business decision-making, with emphasis on doing business in a multi-cultural world.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

FOS201 FOOD SERVICE SANITATION & SAFETY

This course provides the student with the basic concepts of food microbiology and foodborne diseases. Standards enforced by food regulatory agencies will be identified. All information will lead to the application of measures to prevent foodborne illnesses. This course includes a comprehensive exam leading to national certification.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00
Students will acquire the fundamental concepts, skills and techniques involved in the preparation of cold buffet, entree, sauces, soups, salads, and desserts. They will utilize the proper equipment and tools, and standardized recipes to prepare yeast breads, rolls, pastries, and cakes in the food service laboratory. The instructor will evaluate the products prepared based on established food service standards.

LECS 080 LAB HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

Students will continue to build knowledge of the composition and properties of baking ingredients. They will utilize the proper equipment and tools, and standardized recipes to prepare yeast breads, rolls, pastries, and cakes in the food service laboratory. The instructor will evaluate the products prepared based on established food service standards.

LECS 080 LAB HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

This course provides a cost managing approach to the study of food and labor controls, ingredients, the relationship of food and labor costs to selling price; cost control procedures for recipes and menus; pre-cost and pre-control techniques; the preparation and utilization of management reports. A review of mathematics and its application to practical problems is covered. Emphasis is placed on the utilization of controls as a tool of management.

LECS 080 LAB HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

A regional survey of the human/cultural and physical/analytical aspects of the western world including the following regions: Europe, Russia and the C.I.S., Angle America, Middle America, South America, and Australia. The characteristics and special problems of each region will be analyzed from a geographical perspective in order to understand global diversity and the forces and issues that help shape the world.

PROJ 080 LAB HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

A brief practical approach to recognizing, understanding and solving ethical problems confronting today's business people and organizations. Students will review the historical development of ethics and examine a variety of ethical dilemmas, and will practice resolving them through ethical reasoning. Reference to statutory and professional codes will be addressed. Logical and responsible decision-making will be stressed with individual, organizational and societal needs being a focus throughout.

LECS 080 LAB HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00
Lec Hrs = 48   Lab Hrs = 0    Clin Hrs = 0    Oth Hrs = 0     Fees = 0.00

GEO2370 CONSERVATION OF NATURAL RESOURCES
(3)
A survey of the use and mismanagement of natural resources within the environment, including problems of pollution, biosphere systems, population, population depletion and technology. Special emphasis will be placed upon the protection of threatened natural resources. Examination of the relationship of conservation concerns.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

GEO2400 INTRODUCTION TO HUMAN/CULTURAL GEOGRAPHY
(3)
This course will introduce students to geographical concepts as applied in human/cultural issues and problems of the world today. Emphasis will be placed upon understanding both human-cultural interaction and human-environmental interaction.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

GER100 ELEMENTARY GERMAN CONVERSATION
(1)
A custom-made course for those students in the community who require a cursory knowledge of German to help them communicate with German speaking people. One hour laboratory weekly. Special fee charged.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

GER119 BEGINNING GERMAN I
(4)
Fundamentals of speaking, listening-comprehension, reading and writing in German are covered. Techniques developed by geographers that assist in understanding both human-cultural interaction and human-environmental interaction.

Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=15.00

GER121 BEGINNING GERMAN II
(4)
This course further develops speaking, listening-comprehension, reading and writing in German. Students will target the earth systems that will be investigating the hydrosphere, lithosphere and atmosphere of earth. The earth will also be mapped and investigated as an object in space. At least 3 of the following five units will be covered: (1) Introduction to the German-speaking world, (2) Technology, (3) Earth's Waters, (4) Earth's atmosphere and (5) Mapping. Special fee will be charged.

Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=15.00

GIS200 INTERMEDIATE GERMAN I
(4)
Continued practice of speaking, listening-comprehension, reading and writing in German. Students acquire more in-depth knowledge about the German speaking world, German language and culture. Classroom practice is supported by on-line, laboratory and multi-media exercises, designed to develop student proficiency and confidence. Students are expected to further their skills by studying abroad.

Lec Hrs=48 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=0.00

GIS530 REMOTE SENSING AND APPLICATIONS
(3)
This course introduces basic concepts and fundamentals of remote sensing, image processing, and the global positioning system (GPS). The principles and processes involved in airborne interpretation will be reviewed and examined. Image processing techniques will be reviewed from a practical and mathematical points of view. The course is intended to provide the student with the background information necessary to successfully use remotely sensed imagery and GPS in conjunction with GIS technology. Prerequisite: Knowledge of Windows operating system.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=15.00

GIS540C INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS I
(4)
The intent of this course is to provide the student with a detailed introduction in geographic information systems (GIS) and support this information with laboratory activities. The course will cover all working knowledge of the theory aspects of geographic information systems including data collection, preprocessing, data management and data analysis as an introduction to the application of these systems.

Lec Hrs=48 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=22.00

GIS540C INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS II
(4)
This course will build upon the student's fundamental knowledge of GIS gained in the prerequisite course titled - Introduction to Geographic Information System I-. The student will learn how to implement geographic information systems and cartography. It will introduce the student to the theory and practice of computer-aided cartography. In addition, the student will deliver more highly data representation, manipulation and presentation.

Prerequisite: GIS140C

Lec Hrs=48 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=22.00

GIS187C APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS
(3)
A combined lecture and laboratory course in which students will draw upon the principles learned in GIS I and GIS II to increase/refine skills and apply them to individual and/or group projects.

Prerequisite: GIS140C GIS104C

Fees=33.00

GLY1010 EARTH SCIENCE
(5)
A study of the basic disciplines of the earth sciences, geology, meteorology, and oceanography.

Fees=33.00

GLY1010L EARTH SCIENCE LABORATORY
(1)
This course will have experiments and exercises that will be investigating the hydrosphere, lithosphere and atmosphere of earth. The earth will also be mapped and investigated as an object in space. At least 3 of the following five units will be covered: (1) Introduction to Laboratory Study G:1 The Solid Earth, (2) Earth’s Waters, (4) Earth’s atmosphere and (5) Mapping. Special fee will be charged. These units must be covered.

Pre or Corequisite: GLY1010

Lec Hrs=48 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=16.00

GLY110 PHYSICAL GEOLOGY
(5)
Study of geologic events upon life and human relationships is discussed. Students registering in GLY110 are strongly urged to register in the companion lab GLY110L. Some senior institutions require a 4 credit geology course. These three hours weekly. Placement by Testing Department.

Lec Hrs=48 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=0.00

GLY110L PHYSICAL GEOLOGY LABORATORY
(1)
Study of common rocks and minerals including their classification and origin and the interpretation of landforms through the study of geologic maps. One 2-hour laboratory weekly. Placement by Testing Department.

Lec Hrs=48 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=0.00

GLY1110 HISTORICAL GEOLOGY
(5)
A study of the origin and evolution of the Earth and the history of life on our planet. The course encompasses the causes and effects geologic change and the evolution of life, and the role of geologic time. Place emphasis on the origin and evolution of Earth’s past history are also used to help explain current events and predict future trends. Field trips are optional.

Lec Hrs=48 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=0.00

www.broward.edu
As an assistant, I can provide you with a text summary or answer any specific questions you might have. Please let me know how I can help further.
This course provides training on the art of purchasing tourism services as well as the tourism. This course is beneficial to the economic benefits and social implications of tourism industries. Emphasis is placed on the trends in the areas which comprise the travel and organization, problems, opportunities and future.
HIM 1253L CODING I LAB
This lab course provides HIM students an opportunity to apply basic concepts and techniques for ICD-9-CM coding using actual patient records and simulated patient records; both paper and electronic format from different treatment venues. Students will be guided through the practice coding by an experienced coding instructor with a detail analysis of correct coding technique. Students will be able to assess their own level of proficiency and access assistance in areas of identified weaknesses. Students will be introduced to encoding systems: 3M and QuadraMed. Preerequisite: HIM1253. Corequisite: HIM1253L.

HIM 260 REIMBURSEMENT METHODOLOGY
This course examines the complex financial systems within today’s healthcare environment and provides an understanding of the basics of health insurance and public funded programs, managed care contracting and how patients are paid. Students will be able to assess each payment system functions, a brief historical review is also provided the student for a greater understanding of the impact has on all stakeholders. This course will include a review of billing forms, different prepayment and postpayment systems and a discussion of claims management. Prerequisites: HIM100/HIM1252, HIM1253L. Corequisites: HIM100/HIM1252, HIM1253L.

HIM 300 HEALTHCARE DELIVERY SYSTEMS
This fully online course is an introduction to the historical development, current structure, operation, financing, and future directions of the major components of the U.S. healthcare delivery system. A population perspective is used. Upon completion, students should be able to identify the major components, issues and trends in the U.S. healthcare delivery system.

HIM 450 SURVEY OF HUMAN STRUCTURE AND DISEASE I
This is the first of a two course series that will be a survey of the structure, function, and disease processes of the human body along with the current diagnostic and clinical treatment modalities. This course is geared to the health information technology student who will be utilizing this knowledge to code and classification diagnoses, procedures, diagnostic services rendered to patients in the healthcare environment. In Part II of this course, the student will learn about the basic structure and functions of systems, basic diagnostic testing and pharmacological treatment for conditions found in the following systems: Skeletal, Muscular, Integumentary, and Nervous. Students will be introduced to basic pharmacology throughout the course and will learn the 80 most commonly prescribed medications. The medications studied will be by body system as so as to give the student a comprehensive understanding of the clinical treatment modalities. Prerequisite: HSCS1512.

HIM 1800 PROFESSIONAL PRACTICE EXPERIENCE: BASIC
This is an introductory level course giving the students their initial supervised Professional Practice experience in the health information management department. Emphasis is on record assembly, analysis, filing, admission and discharge procedures. Basic doing will be addressed in the first week of instruction. Throughout the course, the student shall learn the understanding of the daily functional operations of a health information management department with the intent that the student will be responsible for the completion of a Professional Practice I Workbook. Prerequisite: HIM1253/HIM2160. Corequisites: HIM1253L. Fees: 30.00

HIM 2322 CODING II LAB
This coding course is designed to build onto the HIM 2235 Coding I course by enhancing the students knowledge of coding and understanding of sequencing for ICD-9-CM. The student will be introduced to basic ICD coding using both a manual system and automated encoder. Introduction to DRG logic, APCs, RBRVS, PPS as well as Coding Guidelines for Hospital-Based Outpatient Services, Emergency Room, Physician Office. Different levels of HCPCS as well as outpatient reimbursement issues will be covered.

Prerequisite: HIM2232L. Corequisites: HIM2160L.

HIM 2323L CODING II LAB
This lab course provides HIM students an opportunity to apply ICD-9-CM and CPT coding using actual patient records and simulated patient records; both paper and electronic format from different treatment venues. Students will be guided through the practice coding by an experienced coding instructor with a detail analysis of correct coding technique. Students will be able to assess their own level of proficiency and access assistance in areas of identified coding weaknesses.

HIM 1012 HEALTH RECORDS LAW
This course relates to patient’s privacy law and legal and ethical issues in health information management. Topics include an overview of: the branches of medical law; case law; tort law; confidentiality and release of information; subpoenaed information; record retention and security; information consent; liability; patient rights; negligence and malpractice; and ethics. Upon completion, students should be able to understand the legal and regulatory requirements and be able to interpret and review patient health information. Prerequisites: HIM1800.

HIM 2245C ADVANCED CODING CONCEPTS
This is an advanced coding lecture lab course giving the student extensive hands-on experience in coding complex and sophisticated cases from inpatient, outpatient and physician office settings typically handled by the coding specialist on the job. Emphasis will be placed on quality of job. Students will be expected to identify APC’s, RBRVs, PPS as well as Coding Guidelines for Hospital-Based Outpatient Services, Emergency Room, Physician Office. Different levels of HCPCS as well as outpatient reimbursement issues will be covered. Prerequisites: HIM1800. Corequisites: HIM2235, HIM2236.

HIM 2508 PERFORMANCE IMPROVEMENT
This course is an introduction to the principles of performance improvement and quality management in health care. Topics include: clinical quality improvement; utilization management; risk management; medical staff credentialing and peer review; accreditation standards; laws and regulations; tools for data collection, analysis, and display; and the role of the HIM department. Upon completion, students should be able to apply performance improvement techniques; collect, analyze, and display data; and support a range of quality management activities.

Prerequisite: HIM1800.

HIM 2512 SUPERVISION & ORGANIZATIONAL LIFE
This course covers management and supervision principles as they are applied to healthcare settings. A study of the aspects and techniques of planning, organizing, motivating, and controlling is presented with emphasis on communication, coordination, and decision making. Prerequisite: HIM1800.
To pass this course, the student must pass the student to leave the classroom and enter the plan, creating a resume, exploring options, developing a professional development information management field by exploring career this hands on lab course will focus on assisting

Corequisite: HIM2728
Prerequisite: HIM2234C
Prerequisite: HIM2232
Prerequisite: HIM1800 HIM2012
Emphasis is on
Coding weaknesses. Students will be introduced to access assistance in areas of identified
correct coding technique. Students will be able to through the practice coding by an experienced coding instructor with a detail analysis of
code technique. Students will be able to assess their own level of proficiency and access assistance in areas of identified

Corequisite: HIM2728L
Prerequisite: ACG2001 HSA2111 HSC1531 HSC1949 MAN2021 MN PEM1181, PEM1131, PEM1141, PEM1117, HSC1011C or instructor›s

Total Wellness emphasizes the importance of knowledge to apply practices relating to personal wellness. It is a course designed to expose students to a broad range of issues and information relating to the various aspects of personal wellness including physical, social, emotional, intellectual, spiritual and environmental wellness. This course integrates personal wellness and fitness in both a classroom and exercise environment. Evolving current topic access assistance in areas of identified

Suggested credit: 10.00

Corequisite: A2345
Prerequisite: HLP1087
Wellness, body composition, nutrition, weight management, stress management, and how students can apply this information to ensure healthful living.

Total Wellness emphasizes the importance of knowledge to apply practices relating to personal wellness. It is a course designed to expose students to a broad range of issues and information relating to the various aspects of personal wellness including physical, social, emotional, intellectual, spiritual and environmental wellness. This course integrates personal wellness and fitness in both a classroom and exercise environment. Evolving current topic access assistance in areas of identified

Suggested credit: 10.00

Corequisite: HHP2949
Corequisite: HIM2728

To pass this course, the student must pass the final Mock RHIT Exam with a score of 79% or higher as required for the RHIT National Examination by AHIMA.

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IDHS121 HONORS INTERDISCIPLINARY STUDIES IN GEN. EDUCATION
The Honors Interdisciplinary Studies Seminar is the capstone course in the program. It is open to Honors Institute students who have attended Broward College for at least one term and have met half or all laboratory requirements for graduation from the Honors Institute. The course will be organized and unified about a specific theme, event, or issue/controversy, or concept, which will be explored through at least two distinct and integrable academic disciplines. The five or more academic fields of study will come from within or across academic disciplines in the college or from Broward College’s broad disciplinary units: Visual/Performing Arts, Criminal Justice, Business, Social Sciences, Communication, Educational, Natural Sciences, Computer Science, and English/Literature. Students will be exposed to a variety of texts and knowledge, which will be integrated and connected using various modes of academic inquiry. This academic and intellectual inquires will be applied to and serve as the basis for numerous types of assessments. A Research Project is required as is at least one Critical Writing Assignment; other types of assessment should be varied and reflect the interdisciplinary nature of the course.
Prerequisite: ENC1101
LeC hrs=48 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=0.00

IDS3550 INTRODUCTION TO TEAM SELF-MANAGEMENT WITH COLLABORATION
This course provides an introduction to Team Self-Management (TSM) theory and practice including its application in both academic and work organizations. The course explores the connections among the student’s purposes, intentions and behaviors; the course also develops the self-management skills required to attain personal, academic, and professional goals. The course will also provide students with an educational experience that addresses reading, writing, comprehension, and appreciation of culture.
LeC hrs=52 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=0.00

IDS3404 TEAM SELF-MANAGEMENT WITH SOCIAL JUSTICE TOPICS
Introduction to Team Self-Management (TSM) with Social Justice emphasizes the theory and practice of team self-management, including leading and working on a self-managing team, and developing project management skills. Additional topics include: gaining an in-depth understanding of social justice issues through utilizing primary-based research, and scenario planning methodologies.
LeC hrs=48 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=0.00

IDS399C RESEARCH IN SOCIAL JUSTICE MANAGEMENT
Develops professional skills that lead to professional career success. Skills include using scientific method-based approach for

ISM352 INFORMATION SYSTEMS CONTROL
This course introduces fundamental concepts and methods related to the management of information systems in organizations. This course will cover a broad range of topics which will vary over time as technology advances. In the end, this course will equip students with the applied knowledge of management information systems for use in business decision making as impacted by information and decision support systems.
LeC hrs=48 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=0.00

ISM3530 APPLIED QUALITY ASSURANCE METHODOLOGY
This course focuses on the refinement of leadership skills, provides an enhanced leadership and group dynamic, and will assist the student in developing a personal philosophy of leadership and awareness of the moral and ethical responsibilities of leadership. Topics include decision making, goal setting, building trust, empowerment, group process, and stimulating change, team building, and servant leaders. Reading and films from classic works in literature, comics, history, and cultural and multi-cultural writing, and experiential learning exercises with current leadership theories and practices. Includes a service learning component, a shadowing experience, and a journal that highlights the student’s entire leadership experience, both in and out of the classroom and contemporary reading assignments, specific critiques of analyses and other assignments as given in the class.
Prerequisite: ENC1101
LeC hrs=48 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=0.00

IDR202 INTRODUCTION TO INTERNATIONAL RELATIONS
A cross-national analysis of the concepts of sovereignty, power, security, economic development and national interests in the formulaic educational policy: the respective roles of the United Nations and the European Union within the context of the growth of intergovernmental Organizations and Non-governmental actors such as legislators and interest groups. Study of the utilization of those concepts by both leading nations and the emerging states with emphasis on both conflicting issues related to both tangible as well as the cooperative aspects of a more globalized and interdependent economic system. Students must earn a misunderstanding of social values in the classroom through utilizing primary-based research, and scenario planning methodologies.
LeC hrs=48 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=0.00

ITIA120 ELEMENTARY ITALIAN I
Fundamentals of speaking, listening, comprehension, reading, writing, and Italian culture. Classroom practice and exercises are supplemented by laboratory and workbook exercises done on-line weekly. Students expected to continue further implementation and expansion of their proficiency in ITIA121. This course will cover a broad range of topics which will vary over time as technology advances. In the end, this course will equip students with the applied knowledge of management information systems for use in business decision making as impacted by information and decision support systems.
LeC hrs=48 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=0.00

ITIA121 BEGINNING ITALIAN II
Continuation of ITIA120. Further development of the basic skills in speaking, listening, comprehension, reading, writing, sight reading, and appreciation of culture.
Prerequisite: ITIA120
LeC hrs=48 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=15.00

JOU100 BASIC REPORTING
Preprofessional course providing fundamental instruction and practice in writing as a basis for all subsequent instruction in journalism. Includes writing in the news style, leads, defining news, types of stories, organization of stories, policy and libel. Prerequisite: Permission of instructor or
LeC hrs=64 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=0.00

JOU120L MAGAZINE PRODUCTION
This course provides hands-on practical experience in the philosophical and technical aspects of magazine production, including print processes, copy setting, picture editing, graphic design, and camera ready layout techniques.
LeC hrs=16 Lab hrs=32 Cln hrs=0 Oth hrs=0 Fees=100.00

JOU1400L NEWSPAPER PRACTICUM I
Practical application of news writing and editing principles through work with college media. Instructor’s approval or
LeC hrs=0 Lab hrs=64 Cln hrs=0 Oth hrs=0 Fees=0.00

JOU1400L NEWSPAPER PRACTICUM II
Continuation of JOU1400L. Students may take JOU1400L and JOU1401L during the same term.
Instructor’s approval or
LeC hrs=0 Lab hrs=32 Cln hrs=0 Oth hrs=0 Fees=0.00

JOU1401L MAGAZINE PRACTICUM I
Continuation of JOU1400L. This course emphasizes
LeC hrs=0 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=15.00

JOU1402L MAGAZINE PRACTICUM III
Continuation of JOU1401L. This course emphasizes
LeC hrs=0 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=15.00

JOU1403L MAGAZINE PRACTICUM IV
Continuation of JOU1402L. This course emphasizes
LeC hrs=0 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=15.00

JOU1410L FEATURE WRITING
Permission of instructor or
LeC hrs=0 Lab hrs=64 Cln hrs=0 Oth hrs=0 Fees=0.00

JOU1410L MAGAZINE PRACTICUM II
Continuation of JOU1400L. Students may take
LeC hrs=0 Lab hrs=32 Cln hrs=0 Oth hrs=0 Fees=0.00

JOU1410L MAGAZINE PRACTICUM V
Continuation of JOU1401L. This course emphasizes
LeC hrs=0 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=15.00

JOU1410L MAGAZINE PRACTICUM VI
Continuation of JOU1402L. This course emphasizes
LeC hrs=0 Lab hrs=0 Cln hrs=0 Oth hrs=0 Fees=15.00
The course is a survey of significant social, political, and economic changes in Latin America after independence, from the middle of the nineteenth century to the present. It examines the characteristics of modern Latin American society and development, from the consolidation of the national states to the present.

LEH100 - INTRODUCTION TO RECREATION
This course acquaints the individual with the recreation organization and opportunities for leaders in riting, art, photography, advertising, picture cropping and scaling, cutlines, and an introduction to desktop publishing. Instructor's approval or Prerequisite: CUNY101

LEH120 - INTRODUCTION TO FITNESS AND OUTDOOR RECREATION
This course will introduce students to the career opportunities available in the field of outdoor recreation/earventure education.

LEH170 - RECREATION FOR SPECIAL GROUPS
An overview of various therapeutic techniques and activities for people with disabilities, the elderly, and youth. This course is designed to provide hands-on learning experience in this field.

LEC401 - SPORTS, FITNESS, AND RECREATION MANAGEMENT
A course primarily designed for the student to learn about the facilities and programs of an organized recreation program. The student will be exposed to the many and varied needs of developing a quality program or event.

LEC821 - SPORTS, WORKOUTS, AND NUTRITION (3)
An overview of various therapeutic techniques and activities for people with disabilities, the elderly, and youth. This course is designed to provide hands-on learning experience in this field.

JST100 - THE HOLOCAUST
The historical, political, literary, religious, and philosophical dimensions of the Holocaust. This course is designed to expose students to the Holocaust and its impact on modern society.

JST200 - SURVEY OF JEWISH CIVILIZATION
A survey of the history of Jewish civilization through a study of the Jewish cultures, traditions and rituals of Judaism. This course is designed to expose students to the Holocaust and its impact on modern society.

JST201 - HISTORY OF MODERN ISRAEL
A course with the period of the Enlightenment for the Jewish people and will follow the historical development which led to the development of the State of Israel.

JST205 - HISTORY OF THE TWO AMERICAS II
This course is a study of Latin America from the development and evolution of American society including the Mesoamericans, Andean and Brazilian worlds, through the conquest and colonization of the region by Europe, ending with the rise of independence by the middle of the nineteenth century. This course is designed to expose students to the Holocaust and its impact on modern society.

JST210 - THE HISTORY OF THE TWO AMERICAS I
This course is a study of Latin America from the development and evolution of American society including the Mesoamericans, Andean and Brazilian worlds, through the conquest and colonization of the region by Europe, ending with the rise of independence by the middle of the nineteenth century. This course is designed to expose students to the Holocaust and its impact on modern society.

LAI101 - BASIC TECHNOLOGY AND COMPUTER APPLICATIONS
An introduction to computer literacy and the use of technology in business and daily life. This course is designed to expose students to the Holocaust and its impact on modern society.

LAI110 - INTRODUCTION TO ENLIGHTENMENT TO MODERN
A study of Latin American literature with the rise of independence by the middle of the nineteenth century. This course is designed to expose students to the Holocaust and its impact on modern society.

LAI127 - JEWISH LITERATURE I: HISTORICAL PERSPECTIVES
A survey of the major works of Jewish literature from the time of the Exodus to the present. This course is designed to expose students to the Holocaust and its impact on modern society.

LIT101 - THE BIBLE AS LITERATURE
A study of the narrative forms found in the Bible, such as history, biography, short story, parable and lyric poetry. Basic literary analysis of selected portions of the Bible.

LIT102 - INTRODUCTION TO THE SHORT STORY
A survey of the development of the short story, to include an analysis of short stories by authors that reflect a diversity of cultural perspectives. This course may include a wide variety of authors such as Baldwin, Borges, Bellow, Camus, Carver, Cather, Chekov, Chopin, Crane, De Maupassant, Faulkner, Faulkner, Hawthorne, Hemingway, Hurston, Kafka, Marquez, O'Connor, Oates, Poe, and Wallace, among others.

LIT105 - INTRODUCTION TO POETRY
Students will be introduced to a representative selection of poetry from various cultures and time periods. This course is designed to expose students to the Holocaust and its impact on modern society.

LIT110 - WORLD LITERATURE FROM ANCIENT WORLD THROUGH
A survey of literature from the ancient, medieval, and modern world. The works of selected authors may include Homer, Sappho, Plato, Sophocles, Ovid, Confucius, Lau Tzu, Dante, Chaucer, Boccaccio, Cervantes, and Shakespeare. This course is designed to expose students to the Holocaust and its impact on modern society.

LIT111 - JEWISH LITERATURE II: 1800 TO THE HOLOCAUST
A study of selected works from the Jewish Enlightenment to 1933. Analyzes the major characteristics of the rise of independent Jewish literature in the 19th century. This course is designed to expose students to the Holocaust and its impact on modern society.

LIT171 - JEWISH LITERATURE I: 1800 TO THE HOLOCAUST
A study of selected works from the Jewish Enlightenment to 1933. Analyzes the major characteristics of the rise of independent Jewish literature in the 19th century. This course is designed to expose students to the Holocaust and its impact on modern society.

LIT172 - JEWISH LITERATURE II: HOLOCAUST TO PRESENT
A study of selected works from the Holocaust to the present. This course is designed to expose students to the Holocaust and its impact on modern society.

LIT200 - INTRODUCTION TO ENLIGHTENMENT TO MODERN
This course will introduce students to the career opportunities available in the field of outdoor recreation/earventure education.

LIT210 - INTRODUCTION TO THE SHORT STORY
A survey of the development of the short story, to include an analysis of short stories by authors that reflect a diversity of cultural perspectives. This course may include a wide variety of authors such as Baldwin, Borges, Bellow, Camus, Carver, Cather, Chekov, Chopin, Crane, De Maupassant, Faulkner, Faulkner, Hawthorne, Hemingway, Hurston, Kafka, Marquez, O'Connor, Oates, Poe, and Wallace, among others.

LIT250 - INTRODUCTION TO POETRY
Students will be introduced to a representative selection of poetry from various cultures and time periods. This course is designed to expose students to the Holocaust and its impact on modern society.

LIT270 - THE BIBLE AS LITERATURE
A study of the narrative forms found in the Bible, such as history, biography, short story, parable and lyric poetry. Basic literary analysis of selected portions of the Bible.

LIT273C - SPORTS, FITNESS AND RECREATION THERAPY
An overview of various therapeutic techniques that can be useful in a recreational setting.

LIT285 - HISTORY OF MODERN ISRAEL
A course with the period of the Enlightenment for the Jewish people and will follow the historical development which led to the development of the State of Israel.

LIT293 - SEMINAR IN LITERATURE
This course is designed to expose students to the Holocaust and its impact on modern society.

LIT295 - SEMINAR IN LITERATURE
This course is designed to expose students to the Holocaust and its impact on modern society.

WTC210 - MALE FEMALE IMAGES IN LITERATURE
An exploration of the ways literary representations and perpetuates sex roles and stereotypes. Readings include dramatic, short stories, novels, and poetry from classical to contemporary. Instructor's approval or Prerequisite: Eligibility for ENC101

WTC215 - MYSTERY FICTION
A study of mystery fiction by investigation of the plot, characters, settings, styles, motifs, and development of the most representative authors of detective, supernatural, and mystery thriller fiction. Includes authors such as Poe, Christie, Doyle, and Hammett.

WTC216 - MALE FEMALE IMAGES IN LITERATURE
An exploration of the ways literary representations and perpetuates sex roles and stereotypes. Readings include dramatic, short stories, novels, and poetry from classical to contemporary. Instructor's approval or Prerequisite: Eligibility for ENC101

WTC217 - MYSTERY FICTION
A study of mystery fiction by investigation of the plot, characters, settings, styles, motifs, and development of the most representative authors of detective, supernatural, and mystery thriller fiction. Includes authors such as Poe, Christie, Doyle, and Hammett.

WTC218 - MALE FEMALE IMAGES IN LITERATURE
An exploration of the ways literary representations and perpetuates sex roles and stereotypes. Readings include dramatic, short stories, novels, and poetry from classical to contemporary. Instructor's approval or Prerequisite: Eligibility for ENC101

WTC219 - MYSTERY FICTION
A study of mystery fiction by investigation of the plot, characters, settings, styles, motifs, and development of the most representative authors of detective, supernatural, and mystery thriller fiction. Includes authors such as Poe, Christie, Doyle, and Hammett.

WTC220 - MALE FEMALE IMAGES IN LITERATURE
An exploration of the ways literary representations and perpetuates sex roles and stereotypes. Readings include dramatic, short stories, novels, and poetry from classical to contemporary. Instructor's approval or Prerequisite: Eligibility for ENC101

WTC221 - MYSTERY FICTION
A study of mystery fiction by investigation of the plot, characters, settings, styles, motifs, and development of the most representative authors of detective, supernatural, and mystery thriller fiction. Includes authors such as Poe, Christie, Doyle, and Hammett.

WTC222 - MALE FEMALE IMAGES IN LITERATURE
An exploration of the ways literary representations and perpetuates sex roles and stereotypes. Readings include dramatic, short stories, novels, and poetry from classical to contemporary. Instructor's approval or Prerequisite: Eligibility for ENC101

WTC223 - MYSTERY FICTION
A study of mystery fiction by investigation of the plot, characters, settings, styles, motifs, and development of the most representative authors of detective, supernatural, and mystery thriller fiction. Includes authors such as Poe, Christie, Doyle, and Hammett.

WTC224 - MALE FEMALE IMAGES IN LITERATURE
An exploration of the ways literary representations and perpetuates sex roles and stereotypes. Readings include dramatic, short stories, novels, and poetry from classical to contemporary. Instructor's approval or Prerequisite: Eligibility for ENC101
A combination of classroom preparation plus travel. Variable content depending on area to be visited.

MAC1106 COLLEGE ALGEBRA

A college algebra course containing topics such as solving, graphing and applying linear and quadratic equations; polynomial, rational, radical, absolute value, square root, cubic, and reciprocal functions and applications; exponential and logarithmic properties; exponential and logarithmic functions; inverse functions and applications. Recommended of the Mathematics Department or at least a grade of C- in the prerequisite course required.

MAD2104 DISCRETE MATHEMATICS

This course will emphasize mathematical theory, formal mathematical proof, and applications of discrete problem-solving techniques. Topics include formal proof, set, logic, functions, probability, relations, graphs, trees, and Boolean algebra.

MAD2104 DISCRETE MATHEMATICS

This course will emphasize mathematical theory, formal mathematical proof, and applications of discrete problem-solving techniques. Topics include formal proof, sets, logic, functions, probability, relations,
MAN2497  CO-OP WORK EXPERIENCE (5) A course designed to provide training in a student’s field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by students and employers.

MAN3521 CUSTOMER RELATIONS FOR MANAGERS (3) This course teaches relationship building for all customers of an organization. The impact of culture and diversity on business relationships, successful negotiation strategies, and promotion of the organization through media relations are discussed.

MAN3510 SEMINAR IN BUSINESS AND MANAGEMENT (1) This course focuses on current and emerging issues in business management. Its format and topic will vary but it will be a seminar which will address a specific business and management topic such as financial markets, international trade, human resources, cultural issues or economics. The requirements of each student will vary with the topics in question. This course may not be repeated, and will only be offered in the Fall Semester.

MAN3531 MANAGEMENT A N D LEADERSHIP I (3) This course focuses on current and emerging issues in business management. Its format and topic will vary but it will be a seminar which will address a specific business and management topic such as financial markets, international trade, human resources, cultural issues or economics. The requirements of each student will vary with the topics in question. This course may not be repeated, and will only be offered in the Winter Semester.

MAN3532 MANAGEMENT A N D LEADERSHIP II (3) This course focuses on current and emerging issues in business management. Its format and topic will vary but it will be a seminar which will address a specific business and management topic such as financial markets, international trade, human resources, cultural issues or economics. The requirements of each student will vary with the topics in question. This course may not be repeated, and will only be offered in the Summer Semester.

MAN3540 MANAGING CULTURAL DIVERSITY (3) This course represents the basic concepts, principles, and techniques associated with leading cultural diversity in the global marketplace. Emphasis will be on the students developing an understanding of the interplay between leadership, cultural diversity, and the global business models. Students will also gain an understanding of how these concepts relate to and are applied in regional markets like Europe, Latin America, Asia, Africa, and the Middle East.

MAN3541 LEADERSHIP CHALLENGES AND SUPERVISION (3) This course applies the application of leadership theories, which include skill formation to develop leadership abilities. Team building skills are emphasized and discussed to enhance leadership effectiveness. Students learn the importance of visioning in their organizations.

MAN3543 OPERATIONS MANAGEMENT (3) This course is an introduction to the topics in the field of operations management in the context of the role of operations managers in designing systems that transform inputs into outputs. The course covers the fundamental concepts and techniques of production and productivity in organizations. Topics discussed are quality and productivity: forecasting, workflow processes, inventory control, design of goods and services; waiting lines; and critical path. Managing a project from beginning to end, including how to identify needs, and define, assign, and track tasks, is addressed.

MAN3570 PROCUREMENT MANAGEMENT (3) This course is an introduction to the concepts, principles, and techniques of purchasing physical resources. Students will develop a basic knowledge of sound procurement practices within a managerial environment for all types of organizations.

MAN3590 STRATEGIC MANAGEMENT AND POLICY (3) This course focuses on current and emerging issues in business management. Students learn how to perform internal and external audits, identify problems, and formulate goals and objectives. Students will develop action plans, and evaluate the effectiveness of the outcome of the plan. Case studies are used to promote decision-making abilities.

MAN3930 SEMINAR IN BUSINESS AND MANAGEMENT II (1) This course is an introduction to the concepts, principles, and techniques of purchasing physical resources. Students will develop a basic knowledge of sound procurement practices within a managerial environment for all types of organizations.

MAN3931 SEMINAR IN BUSINESS AND MANAGEMENT III (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3932 SEMINAR IN BUSINESS AND MANAGEMENT III (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3933 SEMINAR IN BUSINESS AND MANAGEMENT IV (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3934 SEMINAR IN BUSINESS AND MANAGEMENT V (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3935 SEMINAR IN BUSINESS AND MANAGEMENT VI (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3936 SEMINAR IN BUSINESS AND MANAGEMENT VII (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3937 SEMINAR IN BUSINESS AND MANAGEMENT VIII (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3938 SEMINAR IN BUSINESS AND MANAGEMENT IX (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3939 SEMINAR IN BUSINESS AND MANAGEMENT X (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3940 SEMINAR IN BUSINESS AND MANAGEMENT XI (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3941 SEMINAR IN BUSINESS AND MANAGEMENT XII (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3942 SEMINAR IN BUSINESS AND MANAGEMENT XIII (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3943 SEMINAR IN BUSINESS AND MANAGEMENT XIV (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3944 SEMINAR IN BUSINESS AND MANAGEMENT XV (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3945 SEMINAR IN BUSINESS AND MANAGEMENT XVI (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3946 SEMINAR IN BUSINESS AND MANAGEMENT XVII (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3947 SEMINAR IN BUSINESS AND MANAGEMENT XVIII (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3948 SEMINAR IN BUSINESS AND MANAGEMENT XIX (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3949 SEMINAR IN BUSINESS AND MANAGEMENT XX (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3950 SEMINAR IN BUSINESS AND MANAGEMENT XXI (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3951 SEMINAR IN BUSINESS AND MANAGEMENT XXII (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3952 SEMINAR IN BUSINESS AND MANAGEMENT XXIII (1) This course may not be repeated, and will only be offered in the Summer Semester.

MAN3953 SEMINAR IN BUSINESS AND MANAGEMENT XXIV (1) This course may not be repeated, and will only be offered in the Summer Semester.
A course designed to improve the student’s abilities with arithmetic and equation-solving skills to include solving linear inequalities in one variable, polynomial factoring, solving quadratic equations, laws of exponents, rational and radical expressions, and graphing lines. Problem solving involving real-life scenarios is an integral part of this course. This course will teach the student to understand and communicate concepts of algebra in the language of mathematics, both orally and written. The course enhances the student’s problem-solving skills, and helps prepare the student for college-level mathematics and mathematics-based courses. It is nontransferable. Due to the nature of this course, calculators are not permitted.

Pre or Corequisite: MAT0028
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

MAT0083 DEVELOPMENTAL MATHEMATICS MODULE (3)
A course designed for students with strong algebraic skills (without requiring a calculator) and an algebra background, such as solving linear equations in one variable and factoring polynomials. This course will extend students’ algebra skills to include solving radical, rational, quadratic, and absolute-value equations, and recognizing relationships between radical expressions and rational exponents. Complex numbers are introduced in this course as well. Problem solving abilities and their application to real-life scenarios is an integral part of this course. In this course, students will enhance their problem-solving abilities and their ability to communicate concepts of algebra in the language of mathematics, both orally and written.

Pre or Corequisite: MAT0082L
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=24.00

MCR1010L MICROBIOLOGY LABORATORY
(3)
This lab course will complement lecture topics and include the application of fundamental techniques in the isolation cultivation, and identification of microorganisms. Prerequisite: Four hours of coursework in the biological sciences, including laboratory, and three hours of chemistry, with a minimum grade of C-.

Pre or Corequisite: MCB2010L
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

MCR1020L GENERAL MICROBIOLOGY LAB
(3)
This laboratory course will complement lecture topics and include the application of fundamental techniques in the isolation, cultivation, and identification of microorganisms and viruses; metabolic properties and introduction to microbial genetics, pathogenicity, ecology and industrial applications of microorganisms.

Pre or Corequisite: BSC2085BSC2085L CHM1045
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=10.00

MCB2010 MICROBIOLOGY LAB
(1)
A course designed to satisfy the requirements of both MAT0018 and MAT0024 in one semester. Topics to be studied include fundamental techniques used in the isolation, cultivation, and identification of microorganisms. Prerequisites: Four hours of coursework in the biological sciences, including laboratory, and three hours of chemistry, with a minimum grade of C-.

Pre or Corequisite: BSC2010BSC2010L BSC2011BSC2011L CHM1032
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

MCB2020L MICROBIOLOGY LAB
(1)
A course designed to satisfy the requirements of both MAT0018 and MAT0024 in one semester. Topics to be studied include fundamental techniques used in the isolation, cultivation, and identification of microorganisms. Prerequisites: Four hours of coursework in the biological sciences, including laboratory, and three hours of chemistry, with a minimum grade of C-.

Pre or Corequisite: BSC2010BSC2010L BSC2011BSC2011L CHM1045
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

MCB1010 MICROBIOLOGY LAB
(3)
A course designed to satisfy the requirements of both MAT0018 and MAT0024 in one semester. Topics to be studied include fundamental techniques used in the isolation, cultivation, and identification of microorganisms and viruses; metabolic properties and introduction to microbial genetics, pathogenicity, ecology and industrial applications of microorganisms.

Pre or Corequisite: BSC2085BSC2085L CHM1045
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=10.00

MCB2020L GENERAL MICROBIOLOGY LAB
(3)
A course designed to satisfy the requirements of both MAT0018 and MAT0024 in one semester. Topics to be studied include fundamental techniques used in the isolation, cultivation, and identification of microorganisms and viruses; metabolic properties and introduction to microbial genetics, pathogenicity, ecology and industrial applications of microorganisms.

Pre or Corequisite: BSC2085BSC2085L CHM1045
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

MAT0018L DEVELOPMENTAL MATHEMATICS II LAB (2)
A course designed to broaden the student’s arithmetic and equation-solving skills to include solving linear inequalities in one variable, polynomial factoring, solving quadratic equations, laws of exponents, rational and radical expressions, and graphing lines. Problem solving involving real-life scenarios is an integral part of this course. This course will teach the student to understand and communicate concepts of algebra in the language of mathematics, both orally and written. This course will teach students to understand and communicate concepts of algebra in the language of mathematics, both orally and written. It is nontransferable. Due to the nature of this course, calculators are not permitted.

Pre or Corequisite: MAT0018
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=21.00

MAT0022 DEVELOPMENTAL MATHEMATICS LAB COMBINED (2)
A course designed to satisfy the requirements of both MAT0018 and MAT0024 in one semester. Topics to be studied include fundamental techniques used in the isolation, cultivation, and identification of microorganisms. Prerequisites: Four hours of coursework in the biological sciences, including laboratory, and three hours of chemistry, with a minimum grade of C-.

Pre or Corequisite: BSC2010BSC2010L BSC2011BSC2011L CHM1032
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

MAT0028 DEVELOPMENTAL MATHEMATICS II (4)
A course designed to broaden the student’s arithmetic and equation-solving skills to include solving linear inequalities in one variable, polynomial factoring, solving quadratic equations, laws of exponents, rational and radical expressions, and graphing lines. Problem solving involving real-life scenarios is an integral part of this course. This course will teach the student to understand and communicate concepts of algebra in the language of mathematics, both orally and written. This course will teach students to understand and communicate concepts of algebra in the language of mathematics, both orally and written. It is nontransferable. Due to the nature of this course, calculators are not permitted.

Pre or Corequisite: MAT0028
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=22.00

MAT0029 DEVELOPMENTAL MATHEMATICS II LAB (1)
This course introduces basic statistical concepts and focuses on data analysis and quantitative reasoning. It will concentrate on statistical content with fundamental techniques used in the isolation, cultivation, and identification of microorganisms. Prerequisites: Four hours of coursework in the biological sciences, including laboratory, and three hours of chemistry, with a minimum grade of C-.

Pre or Corequisite: MAT0029C
Lec Hrs=0 Lab Hrs=48 Cls Hrs=0 Oth Hrs=0 Fees=22.00
MEA0065 INTRODUCTION TO MEDICAL ASSISTING
An overview of medical assisting and related health professions including duties and responsibilities. Professional and interpersonal relationships of the healthcare team members are emphasized and will include therapeutic communication skills. Students of the various medical specialties and the history of medicine will be included. Pre requisite: Program admission
LEC HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

MEA0204 CLINICAL PROCEDURES
(1) Designed to orient the medical assistant to all phases of patient care in the physician’s examining room. Discussion of basic principles involved relating to vital signs, physical examination, instrumentation sterilization, preparation of medications, therapy and physical therapy modalities and echocardiography will be included. Approved uniform required.
Pre or Corequisite: HSC1531 MEA0204
LEC HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

MEA0204L CLINICAL PROCEDURES LAB
(1) Laboratory portion of MEA0204. Designed to orient the medical assistant to all phases of patient care in the physician’s examining room. Practice of basic principles involved relating to vital signs, physical examination, minor surgery, instrumentation sterilization, preparation and administration of medications, coding, payroll, principles of nutrition and physical therapy modalities will be studied. Approved program uniform required.
Special Fee Charged.
Pre or Corequisite: HSC1531 MEA0204L
LEC HRS = 0 LAB HRS = 38 CLIN HRS = 0 OTH HRS = 0 FEES = 30.00

MEA0233 ANATOMY AND PHYSIOLOGY FOR M.A.
(3) A basic anatomy and physiology course designed to provide instruction on human body structure, function, and associated pathology.
Pre or Corequisite: MEA0233L
LEC HRS = 64 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 30.00

MEA0242 PHARMACOLOGY FOR THE MEDICAL ASSISTANTS I
(2) An introduction to medications, their classifications, dosage, administration, and the legal and ethical considerations applied.
Pre or Corequisite: MEA0242L
LEC HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 30.00

MEA0255 MEDICAL OFFICE PROCEDURES I
(1) Lecture portion of MEA0255L includes discussions in a classroom setting regarding urinalysis, microscopy, specimen collection and preparation, and basic office Microbiology/Bacteriology. Consists of 4 hours of lecture on a mini-senester twice a week. Special Fee Charged.
Pre or Corequisite: HSC1531 MEA0255L
LEC HRS = 0 LAB HRS = 48 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

MEA0255L MEDICAL OFFICE LAB PROCEDURE I
(1) Laboratory portion of MEA0255L. Includes practice regarding sterilization, and basic office Microbiology/Bacteriology. Consists of 4 hours of laboratory on a mini-senester. Professional uniform required.
Pre or Corequisites: HSC1531 MEA0255
LEC HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 30.00

MEA0256 MEDICAL OFFICE PROCEDURES II
(1) Lecture portion of MEA0256L. Includes instruction in basic office hematology, immunology and chemistry. Professional uniform and shoes required. Special Fee Charged.
Pre or Corequisite: HSC1531 MEA0256L
LEC HRS = 0 LAB HRS = 48 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

MEA0261L MEDICAL OFFICE LABORATORY PROCEDURES I
(1) Lab portion of MEA0261. Includes laboratory practice of hematology, immunology, and chemistry. Professional uniform and shoes required. Special Fee Charged.
Corerequisite: MEA0261E
LEC HRS = 0 LAB HRS = 14 CLIN HRS = 0 OTH HRS = 0 FEES = 30.00

MEA0258 RADIOLOGY FOR THE MEDICAL ASSISTANTS I
(2) Provides instruction in the basic principles of X-ray production, physics, radiographic equipment imaging, processing, radiology, and radiation safety.
Pre requisite: Program admission or department permission.
Pre or Corequisite: HSC1531
LEC HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

MEA0259 RADIOLOGY FOR THE MEDICAL ASSISTANTS II
(2) Provides instruction in radiographic anatomy, positioning, procedures, and pathology of the upper and lower extremities, shoulder girdle, pelvis, spine, bony thorax, chest, abdomen, skull, facial bones, and sinuses.
Pre requisite: MEA0259
Pre or Corequisite: MEA0259L
LEC HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

MEA0261L RADIOLOGY FOR MEDICAL ASSISTANTS I
(1) Laboratory portion of MEA0261. Includes laboratory practice of radiology as it pertains to the medical assisting profession.
Pre requisite: Program admission.
Pre or Corequisite: MEA0261L
LEC HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

MEA0334 ADMINISTRATIVE OFFICE PROCEDURES LAB
(1) Laboratory portion of MEA0334. Deals with financial management of the medical office. Basic accounting procedures consisting of pegboard, billing, collection, coding, payroll processing, banking and medical transcription application are included. Students will be provided with the opportunity to learn fundamentals of health insurance claims, diagnostic and procedural coding, setting appointments, managing the medical record, processing mail and other financial responsibilities associated with the medical office. Discussion regarding the different types of insurance and manage care plans and general clerical functions will be included. Medico legal and ethical responsibilities regarding the financial aspects of the medical office will be studied.
Corerequisite: MEA0534
LEC HRS = 64 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 30.00

MEA0382 MEDICAL LAW AND ETHICS
(1) The ethics of medicine and medical practice are studied. Legal requirements and implications to the medical professional are stressed.
Pre requisite: Program Admission
Pre or Corequisite: MEA0382
LEC HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

MEA0400 BASIC ELECTROCARDIOGRAPHY FOR MEDICAL ASSISTANTS
(1) This course will discuss a brief history of electrocardiography, a brief discussion of the cardiovascular system, the role of the Medical Assistant, the uses and care of the electrocardiographic (EKG) machine, positioning the patient, electrical hazards, normal EKG pattern, identifying and reporting abnormal EKG patterns and measuring the EKG. Ambulatory cardiac monitors will be studied.
Corerequisite: MEA0400
LEC HRS = 37 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

MEA0401 BASIC ELECTROCARDIOGRAPHY FOR MEDICAL ASSISTANTS LAB
(1) Laboratory portion of MEA0401. This course will emphasize the role of the Medical Assistant, the care and use of the Electrocardiographic (EKG) machine, positioning the patient, electrical hazards, normal EKG pattern, identifying and reporting abnormal EKG patterns and measuring the EKG.
Corerequisite: MEA0400
LEC HRS = 0 LAB HRS = 38 CLIN HRS = 0 OTH HRS = 0 FEES = 30.00

MEA0800 PRACTICUM IN MEDICAL ASSISTING
(7) Student assigned to physician's office, clinic, or laboratory for a total of two hundred hours. Conference meetings will be arranged on an individual or group basis at a time and place to be arranged by the student and the coordinator. Attendance at group orientation prior to financial assignment is mandatory. Prerequisite: all courses suggested in Term 1. Corerequisite: all previous courses.
Pre or Corequisite: HSC1531 MEA0800
LEC HRS = 0 LAB HRS = 0 CLIN HRS = 206 OTH HRS = 0 FEES = 59.50

MEA0952 PRACTICUM IN MEDICAL ASSISTING
(8) Lecture course designed to serve as a review for medical assisting students in preparation for their national certification examination. Selected areas of the curriculum will be emphasized as needed.
Corerequisite: MEA0800
Pre or Corequisite: HSC1531 MEA0952
LEC HRS = 0 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00

MGF1106 MATHEMATICS FOR LIBERAL ARTS 1
(3) This is a general education course which includes the college-level skills not included in the courses MAT0012 Pre Algebra, MAT0024 Elementary Algebra, and MAT1033 Intermediate Algebra. The course will include topics in logic, geometry, set theory, probability, and statistics. This course will also emphasize applications to real-world situations and the integration of other disciplines, including, but not limited to, business and the physical sciences. Recommended for the Mathematics Department or at least a grade of C- in the prerequisite course is required.
Prerequisite: MAT0012
Pre or Corequisite: MGF1106
LEC HRS = 48 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 24.00
MGF1107 MATHEMATICS FOR LIBERAL ARTS II
(3) This is a general education course which includes college-level skills from a variety of mathematical topics. The course will include at least four selected topics from among: mathematics of finance, linear and exponential functions; number systems; history of mathematics; elementary number theory; graph theory; numerical methods and algorithms; game theory; voting and apportionment theory; and project student(s) (strongly recommended). This course will also emphasize applications to real-world situations and the integration of other academic disciplines, including, but not limited to, business and the physical and social sciences.
Recommendation of the Mathematics Department or at least a grade of C- in the prerequisite course is required.
Prerequisite: MAT1033
Pre or Corequisite: MGF1107
LEC HRS = 48 LAB HRS = 0 CLIN HRS = 0 OTH HRS = 0 FEES = 0.00
**MHF4U1 HISTORY OF MATHEMATICS**

The main aim of this course is to introduce the student to the study of the history of Mathematics. The study will include the development of mathematics through history, the impact of mathematics on society and how mathematics has broadened our knowledge of the world. Throughout the course students will be shown and encouraged to discover connections to mathematics as it is applied today. The course is designed to be of interest to persons of various backgrounds. The prerequisites for this course students who want to understand the development of mathematics, teachers of mathematics at all levels and those students who have an interest in social and cultural history.

**MCA111**

Le c H r s = 48   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MKA102I SALES MANAGEMENT**

Through a combination of principles and techniques, this course identifies the why, what, how and when of selling. Students develop skills in prospecting, opening the sale, presenting customer benefits, overcoming objections, and closing the sale. Students will prepare an oral presentation based on the DECA Sales Representative contest.

Le c H r s = 48   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MKA103I ADVERTISING**

This course introduces the use of promotional strategy and marketing communications in achieving marketing objectives. It focuses on how product features/benefits can be translated into promotional appeal and influence customer purchasing behavior. Topics include promotional objectives, product positioning, selecting media, creative analyses, budgeting, measuring promotional effectiveness. As a learning activity, students prepare an advertising campaign for a product, business, or non-profit organization. Students will have the opportunity to participate in Delta Epsilon Chi activities.

Le c H r s = 48   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MKA107I SEMINAR I: MARKETING IN PERSPECTIVE**

This course includes marketing management related activities such as individual projects in promotion and entrepreneurship, market research and career planning. The students have the opportunity to develop leadership skills through participation in Delta Epsilon Chi activities.

Le c H r s = 48   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MKA209I CO-OP WORK EXP**

A course designed to provide training in a student's field of study through work experience. Students strategy and on the basis of documentation acquired as reported by student and employer. Students will be assigned specific course prefixes related to their academic major prior to registration.

Le c H r s = 48   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MCC100I INTRO TO MASS COMMUNICATION**

Overview of contemporary mass media and its historical background. Includes processes and effects of participation in the individual and society. Deals with the media industry, its responsibilities, legalities, and careers. Media discussed may include newspapers, magazines, books, radio, television, advertising, public relations, and the movie and recording industries.

Le c H r s = 48   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MNA111I INTRODUCTION TO CUSTOMER SERVICE**

This course provides the student with the basic concepts and current trends in the customer service industry. Through actual case studies, the students analyze organizations which have implemented successful customer service strategies.

Le c H r s = 48   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MNA182I INTRODUCTION TO E-COMMERCE**

This course examines the history, basic tools, and other important issues surrounding the many forms of Electronic Commerce. The student develop skills and gain knowledge and experience with a networked community designed for business function and transactions. Subject areas include:

- types of E-Commerce: E-Marketing, E-Accounting
- type of customer services: effective E-Commerce solutions

Le c H r s = 32   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MNA1948 INDUSTRY WORK EXPERIENCE**

Students with a postsecondary adult vocational certificate or equivalent may receive credit based on departmental review. Students may apply only to students seeking an A.S. in Industrial Management. The student must submit an application for the course to the program manager. All students must contact the program manager to obtain registration approval.

Le c H r s = 48   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MNA250I Principles of Supervision**

This course provides an overview of fundamentals of supervision and the management of people. It emphasizes the role of supervision in business organizations by focusing on supervisory processes; examining functions of planning, organizing, directing, controlling and their relationships to daily responsibilities of the supervisor.

Le c H r s = 48   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MNA290I INDEPENDENT STUDY IN INDUSTRIAL MANAGEMENT**

A directed study course available to both majors and non-majors who wish to investigate a particular concern or related issue in the field of Industrial Management. The student must submit an application for the course to the program manager. All students must contact the program manager to obtain registration approval.

Le c H r s = 48   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MMS010I ANATOMY AND PHYSIOLOGY OF MASSAGE THERAPY**

Course provides an opportunity for students to develop an applied understanding of neuromusculoskeletal anatomy. Postural analysis is presented. Students study the major muscles of the body, their insertions, tendons of attachment, and actions; as well as associated bones, bone landmarks, and stabilizing ligaments for each joint. Plans of movement and lever classification are discussed.

Prerequisite: MMS010I Certificates, MMS156L

Le c H r s = 65   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MMS150I ANATOMY AND PHYSIOLOGY FOR MASSAGE THERAPY II**

Course provides an opportunity for students to develop an applied understanding of neuromusculoskeletal anatomy. Postural analysis is presented. Students study the major muscles of the body, their insertions, tendons of attachment, and actions; as well as associated bones, bone landmarks, and stabilizing ligaments for each joint. Plans of movement and lever classification are discussed.

Prerequisite: MMS010I Certificates, MMS156L

Le c H r s = 65   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MMS156L ANATOMY AND PHYSIOLOGY FOR MASSAGE THERAPY LAB II**

Course provides an opportunity for students to develop an applied understanding of neuromusculoskeletal anatomy. Postural analysis is presented. Students study the major muscles of the body, their insertions, tendons of attachment, and actions; as well as associated bones, bone landmarks, and stabilizing ligaments for each joint. Plans of movement and lever classification are discussed.

Le c H r s = 65   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MSS1001 MEDICAL ETHICS AND STANDARDS FOR MASSAGE THERAPY**

Course presents a detailed exploration of ethics and professionalism as it relates to massage therapy, focusing on the development and application of appropriate professional boundaries and the psychological dimensions of the client-therapist relationship. Licensure, national certification, professional organizations, malpractice insurance, sexuality, cultural diversity, and other concepts related to ethical practice are discussed.

Le c H r s = 15   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MSS1010 ANATOMY AND PHYSIOLOGY OF BODY SYSTEMS**

The structure and function of human organs as they service massage therapy are presented. Basic anatomy and physiology of the major body systems and organs as they apply to massage therapy are discussed in relationship to appropriate care by the massage therapist. Systemic contraindications, local contraindications and cautions that influence care are presented.

Le c H r s = 45   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MSS1051 ANATOMY AND PHYSIOLOGY FOR MASSAGE THERAPY II**

Course presents an applied understanding of neuromusculoskeletal anatomy. Postural analysis is presented. Students study the major muscles of the body, their insertions, tendons of attachment, and actions; as well as associated bones, bone landmarks, and stabilizing ligaments for each joint. Plans of movement and lever classification are discussed.

Prerequisite: MMS010I Certificates, MMS156L

Le c H r s = 65   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MSL101 FOUNDATIONS OF OFFICERSHIP**

Army ROTC: Examines the unique duties and responsibilities of officers, and the organization and role of the Army. Reviews skills pertaining to fitness and communication, and analyzes Army values and expected ethical behavior.

Le c H r s = 16   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MSL102 BASIC LEADERSHIP**

Army ROTC: Presents fundamental leadership concepts and doctrine, student will practice basic skills that underlie effective problem solving and examine the officer experience.

Le c H r s = 16   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MSL201 INDIVIDUAL LEADERSHIP STUDIES**

Army ROTC: Develops knowledge of self, self-confidence, individual leadership skills, problem solving and critical thinking skills, and improves communication and conflict resolution skills.

Le c H r s = 32   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

**MSL202 LEADERSHIP AND TEAMWORK**

Army ROTC: Focuses on development by gaining knowledge of self and group processes and by challenging individual beliefs, knowledge and skills.

Le c H r s = 16   Lab H r s = 0   Cl n H r s = 0   O t h H r s = 0   F e e s = 0.00

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MSS0250 INTRODUCTION TO MASSAGE THERAPY LAB
Course explores the effects, precautions and variations associated with basic massage strokes and issues associated with touch and trust. Students learn how to perform a full body massage that includes the five basic Swedish massage strokes and variations plus compression and fascia release. Proper draping, bolus use and turning procedures during the massage are also taught as well as appropriate use of pressure, rhythm and movement to enhance the massage’s effects. The ability to locate areas of tension or discomfort in clients is developed. Efficient body mechanics, hygiene and self-care while performing massage are practiced. Introductory record keeping as well as centering and breathing techniques are practiced.
Pre or Corequisite: MSS0801L
Leads Hrs = 15  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 0.00

MSS0250 INTRODUCTION TO MASSAGE THERAPY
Course presents an introduction to the massage therapy profession. Effective and appropriate communication techniques for management of the client-therapist relationship; communication skills necessary for working with colleagues in the health care community; and responsibility to the professional community and one’s own community, through civic participation and membership in a profession are discussed. The theory and history of massage therapy are explored.
Prerequisite: MSS0001L
Leads Hrs = 15  Clin Hrs = 0  Oth Hrs = 0  Fees = 0.00

MSS0501 HYDROTHERAPY MODALITIES
The therapeutic use of superficial heat and cryotherapy is discussed with an emphasis on development in order to make professional judgments about the application of the appropriate modality for each client. Laboratory principles of hydrotherapy applications and equipment, indications, and contraindications are discussed. Basic principles of ultrasound, interferential current, TENS and electrical stimulation are presented.
Prerequisites: MSS0001L MSS0250L
Leads Hrs = 3  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 0.00

MSS0501L HYDROTHERAPY MODALITIES - LAB
Practical experience in the use of ice, heat, and hydrotherapy modalities. Application of physical agent modalities are practiced with emphasis on proper technique, safety, indications and contraindications.
Prerequisites: MSS0250L
Leads Hrs = 15  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 0.00

MSS0801L MASSAGE THERAPY CLINICAL PRACTICUM
Course enhances the students’ ability to integrate principles and techniques learned across the curriculum. Students provide comprehensive massage therapy services in the Massage Therapy Lab under direct supervision, including specific upper and lower body techniques. Principles of massage therapy are applied in a variety of settings, including learning principles of relating to clients, keeping records, determining fees, billing insurance, marketing and building a massage practice, maintaining hygiene standards and other professional responsibilities. In addition to laboratory sessions, students are required to engage in practice sessions outside of scheduled class hours, and must complete a minimum community service requirement.
Prerequisite: MSS0250L
Leads Hrs = 15  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 0.00

MSS0821 ALLIED MODALITIES - LAB
Students learn how to help promote relaxation and relieve muscle tension via palpation as well as by determining joint range of motion, and then applying massage, exercise, and stretching to support normal motion, muscle tone and relaxation. General techniques for full body and seated massage are practiced. Emphasis continues on the development of correct body mechanics, injury prevention, table management, draping methods, and charting. Hands-on skills in several modalities such as reflexology, manual lymph drainage, and neuromuscular therapy are developed.
Prerequisite: MSS0250L
Leads Hrs = 48  Clin Hrs = 0  Oth Hrs = 0  Fees = 0.00

MSS1103 BUSINESS MATHEMATICS
This course emphasizes the application of mathematics to selected business topics and problems. Emphasis is given to the material in linear equations and descriptive statistics.
Prerequisite: MSS0250L
Leads Hrs = 110  Clin Hrs = 0  Oth Hrs = 0  Fees = 0.00

MTB1103 BUSINESS MATHEMATICS
This course is designed for Associate of Science degree students. The following topics are included: the metric system and measurement; linear and quadratic functions, ratio and proportions; exponential and logarithmic functions and descriptive statistics. Problem solving and applications requiring a calculator will be

MTB1252 ENGINEERING TECHNOLOGY MATH III
This is the first in a two term sequence designed for computer and electronics engineering technology students. Topics include systems of linear equations, factoring, fractions, roots and radicals, quadratic equations, complex numbers, exponents and logarithms, trigonometry, analytical geometry, and linear inequalities. Calculations will be used to solve problems after the basic principles have been mastered.
Prerequisite: MTB1208
Leads Hrs = 48  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 0.00

MTB1253 ENGINEERING TECHNOLOGY MATH IV
This is the second course in two term sequence designed for computer and electronics engineering technology students. Topics include systems of linear equations, factoring, fractions, roots and radicals, quadratic equations, complex numbers, exponents and logarithms, trigonometry, analytical geometry, and linear inequalities. Calculations will be used to solve problems after the basic principles have been mastered.
Prerequisite: MTB1252
Leads Hrs = 48  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 0.00

MTB1370 MATH TOPICS FOR HEALTH RELATED PROFESSIONS
This course provides an intensive review of mathematics operations involving fractions, decimals, percents, ratios, and proportions. Units and measurement are taught in apothecaries, metric, and household systems are also discussed with a major emphasis on application for the calculation of both oral and parenteral drug dosages.
Pre or Corequisite: NUR1020
Leads Hrs = 16  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 0.00

MTE104C INTRODUCTION TO MARINE TECHNOLOGY
Course provides the student with the basic skills needed in repairing the marine engine. Hands-on training includes safety rules and regulations; use of tools, identification of fasteners, gaskets, and seals; use of parts and electrical symbols for wiring diagrams.
Prerequisite: MSS0250L
Leads Hrs = 16  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 0.00

MTE108C RIGGING AND MAKE READY
Preparation and deliverable of sales merchandise, mounting of various accessories, rigging cables, wiring, control box, marine maintenance and fabrication of systems are covered.
Prerequisite: MTE104C
Leads Hrs = 16  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 0.00

MTE109C MARINE DIESEL ENGINES 1
Course provides theory and hands-on application of the marine diesel engine and related systems. Instruction includes disassembly, reassembly, inspection, cleaning and troubleshooting engine parts and systems.
Prerequisite: MTE104C
Leads Hrs = 16  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 70.83

MTE1062C MARINE CORROSION & PREVENTION
Upon completion of this course, students will be able to describe the basic theory of galvanic, electrolysis, fatigue, biological corrosion, and chemical corrosion as it pertains to the marine industry. Zinc sacrificial anode and other current commercial control systems are demonstrated and discussed. Composition, structure, application, and evaluation of commercial classes of protective coating for metals, proper metal preparation, and coating applications are covered. Classroom instruction and hands-on training will be in accordance with applicable American Boat and Yacht Council (ABYC) Standards and industry best practices.
Prerequisite: MTE1312C
Leads Hrs = 30  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 206.83

MTE1073C GASOLINE ENGINE DIAGNOSTICS AND REPAIR
A course on four and two-cycle in-line, and V-type inboard and outboard gasoline engines. Labs include troubleshooting with various kinds of test equipment, diagnosis and cleaning of various types of inboard gas engines by major manufacturers.
Prerequisite: MTE1010C
Leads Hrs = 30  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 151.83

MTE1167C MARINE FUEL SYSTEMS, DIESEL & GAS
Course provides theory, operation, and service of gasoline and diesel fuel systems as well as conventional system characteristics of fuels and their oil mixture; safety; marine carburetors, tank construction and installation; and troubleshooting test equipment using a dyno.
Prerequisite: MTE1004C
Leads Hrs = 16  Lab Hrs = 0  Clin Hrs = 0  Oth Hrs = 0  Fees = 89.83

MTE1312C ADVANCED MARINE COMPOSITES, PAINTING & REFINISH
Principles of advanced composite marine construction and repair. Painting and refinishing surface fundamentals.
Prerequisite: MTE104C
Leads Hrs = 16  Lab Hrs = 44  Clin Hrs = 0  Oth Hrs = 0  Fees = 178.83

MTE1400C MARINE ELECTRICITY
Basic electrical theory for both AC and DC circuits in marine systems. Application of electrical theory to the generating, starting and auxiliary circuits of a marine engine. Emphasis on theory of operation and repair of equipment in the field with special attention to marine problems in adverse environments.
Prerequisite: MTE104C
Leads Hrs = 16  Lab Hrs = 64  Clin Hrs = 0  Oth Hrs = 0  Fees = 155.83

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MTE1542C AIR CONDITIONING AND REFRIGERATION SYSTEMS
Principles of air conditioning and refrigeration systems on marine vessels.
Prerequisite: MTE104C MTE1400C
Lec Hrs=16 Lab Hrs=0 Clsn Hrs=0 Otli Hrs=0 Fees:71.85

MTE1615C BASIC WELDING
Provides basic welding knowledge and skills necessary to make repairs on ferrous materials used in the marine industry. Emphasis on metallurgy and uses of metals. The course is designed for the student with no welding background and includes the safety and theory of gas welding, metal cutting, brazing with brass and silver alloys, AC/DC are welding stick, and introduction to aluminum TIG and MIG welding.
Lec Hrs=38 Lab Hrs=0 Clsn Hrs=0 Otli Hrs=0 Fees:45.83

MTE2495 MARINE INTERNSHIP
Internship co-operative course providing on-the-job training at a local marine repair station. Includes systems in student outcomes which meet industry standards.
Prerequisite: MTE104C MTE1018C MTE1400C
Lec Hrs=Lab Hrs=Clsn Hrs=0 Otli Hrs=0 Fees:83.85

MTG2204 GEOMETRY FOR TEACHERS
This course is designed for middle and high school mathematics teachers. The course emphasizes Euclidean plane geometry with an introduction to the non-Euclidean geometries. The problems proofs, and constructions involve line segments, triangles, circles, parallel lines, and similarity. Credit for this course may not be used to meet general education requirements for the A.A. degree.
Lec Hrs=48 Lab Hrs=0 Clsn Hrs=0 Otli Hrs=0 Fees:0.00

MTG3322 MODERN GEOMETRY
A course for math and math education majors. Geometry is a major foundation of our mathematical understandings. Prerequisite: MTE1204 C MTE1400C
Lec Hrs=32 Lab Hrs=0 Clsn Hrs=0 Otli Hrs=0 Fees:0.00

MUE110C INTRODUCTION TO RECORDING STUDIO PROCEDURES
Fundamentals and techniques of modern multi-track recording. Areas of concentration are studio procedures, equipment operation, microphone selection and placement, signal processors, musical instrument isolation, and acoustical properties.
Prerequisite: MUS2342C MUS2344C
Pre or Corequisite: MUS2548C
Lec Hrs=32 Lab Hrs=32 Clsn Hrs=0 Otli Hrs=0 Fees:100.00

MUE120C ADVANCED RECORDING ENGINEERING
This class focuses on advanced application of recording and mix-down techniques, incorporating the use of overdubs and special effects. A multi-track recording project will be required.
Prerequisite: MUM1600C MUS2548C
Pre or Corequisite: MUS2548C
Lec Hrs=32 Lab Hrs=32 Clsn Hrs=0 Otli Hrs=0 Fees:100.00

MUE2700 INTRODUCTION TO MUSIC BUSINESS
An industry overview of the music business. Principles and practices of the music industry. A systematic survey of the career options in the music industry. Topics include recording, publishing, licensing, copyright, promotions, arts management, music and instrument merchandising, concert promotion, music distribution, internet and the music industry, live performance on a local and national basis, career options and career development with emphasis on commercial enterprise.
Lec Hrs=48 Lab Hrs=0 C hnl Hrs=0 Otli Hrs=0 Fees:0.00

MUE2800 MUSIC MARKETING AND PROMOTION
Music business marketing is a multifaceted and integrated approach that will teach the student an effective worldwide music marketing strategy and how to plan their active marketing plan tailored to the student’s strengths and budget. The student will learn to time marketing campaign effectively, publicize music effectively for traditional print and emerging online outlets; understand the current opportunities for online, satellite and terrestrial radio to navigate various retail and distribution options such as ITunes, Rhapsody, Amazon.com as well as brick and mortar venues.
Prerequisite: MUS2700
Lec Hrs=48 Lab Hrs=0 Clsn Hrs=0 Otli Hrs=0 Fees:0.00

MUE3110 COLLEGE SINGERS
Open to all students. Chairs assigned by the conductor for transfer credit.
Lec Hrs=48 Lab Hrs=0 Clsn Hrs=0 Otli Hrs=0 Fees:0.00

MUE3120 ORCHESTRA
Open to all students. Chairs assigned by the conductor. Three hours rehearsal weekly. May be taken four times for transfer credit.
Lec Hrs=48 Lab Hrs=32 Clsn Hrs=0 Otli Hrs=0 Fees:0.00

MUE3130 VOCAL ENSEMBLE
A select vocal ensemble performing a wide variety of literature, including Jazz and Pop. Open to all students by audition. May be taken four times for transfer credit.
Lec Hrs=48 Lab Hrs=32 Clsn Hrs=0 Otli Hrs=0 Fees:0.00

MUE3140 MUSIC HISTORY AND LITERATURE
A survey course tracing the history of music from the beginning of the 19th century to the present, showing the significance of music development resulting from social, international and cultural influences.
Lec Hrs=48 Lab Hrs=0 C hnl Hrs=0 Otli Hrs=0 Fees:0.00

MUE3150 MUSIC APPRECIATION
Course for music majors, designed to develop a basic music vocabulary, establish critical listening skills, and survey the evolution of Western music within a framework of world cultures.
Lec Hrs=48 Lab Hrs=0 C hnl Hrs=0 Otli Hrs=0 Fees:0.00

MUE3250 SEMINAR IN SPECIAL INTERNATIONAL STUDIES
A combination of classroom preparation and foreign travel with an emphasis on in-depth study of major musical works.
Lec Hrs=48 Lab Hrs=0 C hnl Hrs=0 Otli Hrs=0 Fees:0.00

MUE3310 HISTORY OF MUSIC 1
A survey course tracing the history of music from the beginning of the 19th century to the present, showing the significance of music development resulting from social, international and cultural influences.
Lec Hrs=48 Lab Hrs=0 C hnl Hrs=0 Otli Hrs=0 Fees:0.00

MUE3320 HISTORY OF MUSIC 2
A survey course tracing the history of music from the beginning of the 19th century to the present, showing the significance of music development resulting from social, international and cultural influences.
Lec Hrs=48 Lab Hrs=0 C hnl Hrs=0 Otli Hrs=0 Fees:0.00

MUE3330 HISTORY OF MUSIC 3
A survey course tracing the history of music from the beginning of the 19th century to the present, showing the significance of music development resulting from social, international and cultural influences.
Lec Hrs=48 Lab Hrs=0 C hnl Hrs=0 Otli Hrs=0 Fees:0.00

MUE3340 HISTORY OF MUSIC 4
A survey course tracing the history of music from the beginning of the 19th century to the present, showing the significance of music development resulting from social, international and cultural influences.
Lec Hrs=48 Lab Hrs=0 C hnl Hrs=0 Otli Hrs=0 Fees:0.00

MUE3450 HISTORY OF MUSIC 5
A survey course tracing the history of music from the beginning of the 19th century to the present, showing the significance of music development resulting from social, international and cultural influences.
Lec Hrs=48 Lab Hrs=0 C hnl Hrs=0 Otli Hrs=0 Fees:0.00

MUE3550 HISTORY OF MUSIC 6
A survey course tracing the history of music from the beginning of the 19th century to the present, showing the significance of music development resulting from social, international and cultural influences.
Lec Hrs=48 Lab Hrs=0 C hnl Hrs=0 Otli Hrs=0 Fees:0.00

MUE3650 HISTORY OF MUSIC 7
A survey course tracing the history of music from the beginning of the 19th century to the present, showing the significance of music development resulting from social, international and cultural influences.
Lec Hrs=48 Lab Hrs=0 C hnl Hrs=0 Otli Hrs=0 Fees:0.00

MUE3750 HISTORY OF MUSIC 8
A survey course tracing the history of music from the beginning of the 19th century to the present, showing the significance of music development resulting from social, international and cultural influences.
Lec Hrs=48 Lab Hrs=0 C hnl Hrs=0 Otli Hrs=0 Fees:0.00
MUN138 BROWARD CHORAL SOCIETY
Open to all students, faculty and members of the community who have experience in the art of singing. Three hours music and show presentation. May be taken four times for transfer credit.
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUN140 BRASS ENSEMBLE
A select instrumental ensemble that performs music written or arranged for brass instruments. Enrollment is determined by the director through audition. May be taken four times for transfer credit.
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUN144 PERCUSSION ENSEMBLE
A select instrumental ensemble that performs music written or arranged for percussion instruments. Enrollment is determined by the director through audition. May be taken four times for transfer credit.
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUN146 CHAMBER ENSEMBLE
Small group whose members are selected by the director through audition. Study and performance of repertoire appropriate to the specific chamber media. Three hours rehearsal weekly. May be taken four times for transfer credit.
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUN148 CLASSICAL GUITAR ENSEMBLE
Open to all students, faculty and members of the community who play guitar. Enrollment is determined by the director through audition. Participants will study and perform music from all periods in preparation for public performance. May be taken four times for transfer credit.
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUN170 JAZZ ENSEMBLE
Enrollment is determined by the director through audition. Study and performance of music associated with the popular music and show presentation fields. May be taken four times for transfer credit.
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUN171 JAZZ COMBO
Enrollment is determined by the director through audition. Study and performance of music associated with the popular music and show presentation fields. May be taken four times for transfer credit.
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUN1712 COMBO LAB
Enrollment is determined by the director through audition. Study and performance of music associated with the popular music and show presentation fields. May be taken four times for transfer credit.
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUN1713 JAZZ ASSIGNMENTS
Enrollment is determined by the director through audition. Study and performance of music associated with the popular music and show presentation fields. May be taken four times for transfer credit.
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUS2342C DIGITAL AUDIO MUSIC PRODUCTION
A course designed to provide training in a comprehensive survey of audio production, sound f/x, music notation programs and delivery.
Lec Hrs=32 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=100.00

MUS2349C ADVANCED PROJECTS IN MUSIC PRODUCTION
This course will offer the student a comprehensive overview of the music production process, including composing, recording, mixing, advanced synthesis techniques and delivery.
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=100.00

MUS2352C LIVE SOUND REINFORCEMENT
This course explores techniques used for recording and reinforcing music on location. Topics include commonly encountered acoustical problems and an investigation of equipment and techniques used to overcome them.
Prerequisite: MUS1360L MUS2348C
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUS2355C INDEPENDENT STUDY: MUSIC
A directed, independent study course available to both majors and non-majors who wish to investigate a particular problem related to music.
Prerequisite: instructor approval. Students will shape the course to fit their needs by planning activities with a faculty advisor.
Lec Hrs=48 Lab Hrs=0 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUS2390C MUSIC SPECIAL TOPICS
Course centers around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester. Topics will be identified by the MUS250 course title published in the course schedule for each term that the course is offered. Special Topics credit hours are not automatically transferable. Transfer credit is the prerogative of the receiving institution.
Lec Hrs=48 Lab Hrs=0 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUS2490 MUSIC TECHNOLOGY CO-OP WORK EXPERIENCE
A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of the student's field of study through work experience. Students are graded on the basis of the student's field of study through work experience.
Lec Hrs=0 Lab Hrs=48 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUS2540C INTRODUCTION TO MUSIC TECHNOLOGY AND SOUND DESIGN
This course will offer the student a comprehensive study of the Musical Instrument Digital Interface (MIDI) and its many musical applications with an emphasis on sequencing and sound design. Concepts of music synthesis and sound design are presented through the use of a computer, keyboard, and appropriate software.
Pre or Corequisite: MUS2342C
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=100.00

MUS2548C DIGITAL AUDIO MUSIC PRODUCTION 2
This course explores techniques used for recording and reinforcing music on location. Topics include commonly encountered acoustical problems and an investigation of equipment and techniques used to overcome them.
Prerequisite: MUS2342C MUS2344C
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=100.00

MUS2590C MUSIC TECHNOLOGY CO-OP WORK EXPERIENCE
A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of the student's field of study through work experience.
Lec Hrs=0 Lab Hrs=48 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUT1001 FUNDAMENTALS OF MUSIC
A study of basic music fundamentals for the non-music major or the beginning music major whose background in music has been minimal.
Lec Hrs=48 Lab Hrs=0 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUT1111 MUSIC THEORY I
A course on music theory and related keyboard skills. Emphasis on diatonic materials.
Pre or Corequisite: MUT1240
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUT1112 MUSIC THEORY II
A continuation of MUT1111.
Prerequisite: MUT1111
Corequisite: MUT1240
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUT1241 EAR TRAINING AND SIGHT SINGING I
A course in the development of sight singing and ear training skills.
Corequisite: MUT1111
Lec Hrs=32 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUT1242 EAR TRAINING AND SIGHT SINGING II
A continuation of MUT1241.
Prerequisite: MUT1241
Corequisite: MUT1112
Lec Hrs=32 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUT2116 MUSIC THEORY III
Continuation of MUT1112. Concentration on chromatic materials, musical forms, and 20th century techniques.
Prerequisite: MUT1112
Corequisite: MUT2246
Lec Hrs=48 Lab Hrs=0 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUT2117 MUSIC THEORY IV
Continuation of MUT2116.
Prerequisite: MUT2246
Corequisite: MUT2247
Lec Hrs=48 Lab Hrs=0 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUT2246 EAR TRAINING AND SIGHT SINGING III
A continuation of MUT1242.
Prerequisite: MUT1242
Corequisite: MUT2216
Lec Hrs=48 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUT2247 EAR TRAINING AND SIGHT SINGING IV
Continuation of MUT2246.
Prerequisite: MUT2246
Corequisite: MUT2217
Lec Hrs=32 Lab Hrs=32 Cln Hrs=0 Ot h Hrs=0 Fees=0.00

MUT2461 JAZZ THEORY AND IMPROVISATION I
A study of the materials and structure of jazz music and the development of improvisational skills.
Prerequisite: MUT1111
Corequisite: MUT2216
Lec Hrs=48 Lab Hrs=0 Cln Hrs=0 Ot h Hrs=0 Fees=0.00
One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2121 TRUMPET

One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2131 PRINCIPAL TUBA I

Applied instruction in tuba for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2221 TRUMPET

One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2222 FRENCH HORN

One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2223 TROMBONE

One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2231 FRENCH HORN I

Applied instruction in French horn for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2232 FRENCH HORN II

Applied instruction in French horn for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2321 BARITONE HORN

One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2322 BARITONE HORN

One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2331 PRINCIPAL TROMBONE I

Applied instruction in trombone for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2332 PRINCIPAL TROMBONE II

Applied instruction in trombone for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2341 PRINCIPAL BARITONE HORN I

Applied instruction in baritone horn for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2342 PRINCIPAL BARITONE HORN II

Applied instruction in baritone horn for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.

MVB2441 PRINCIPAL ELECTRIC BASS

Applied instruction in electric bass for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.

MVB2442 PRINCIPAL ELECTRIC GUITAR

Applied instruction in electric guitar for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.

MVB2443 PRINCIPAL JAZZ GUITAR

Applied instruction in electric bass for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.

MVB2444 PRINCIPAL JAZZ PERCUSSION

College preparatory applied instruction in jazz percussion for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.

MVB2445 PRINCIPAL JAZZ PIANO

College preparatory applied instruction in jazz piano for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.

MVJ2311 PRE-PRINCIPAL JAZZ PIANO

College preparatory applied instruction in jazz piano for the music principal. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.

MVJ2321 BARITONE HORN I

One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.

MVJ2322 BARITONE HORN II

One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.

MVJ2331 PRINCIPAL TROMBONE I

Applied instruction in trombone for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.

MVJ2332 PRINCIPAL TROMBONE II

Applied instruction in trombone for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.

MVJ2341 PRINCIPAL ELECTRIC BASS

Applied instruction in electric bass for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.

MVJ2342 PRINCIPAL ELECTRIC GUITAR

Applied instruction in electric guitar for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.

MVJ2343 PRINCIPAL JAZZ GUITAR

Applied instruction in electric bass for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.

MVJ2344 PRINCIPAL JAZZ PERCUSSION

College preparatory applied instruction in jazz percussion for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.

MVJ1010 PRE-PRINCIPAL JAZZ PIANO

College preparatory applied instruction in jazz piano for the music principal. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
MVJ120 JAZZ PIANO / SECONDARY
One hour lesson per week and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=50.00

MVJ121 JAZZ VOICE SECONDARY
One hour lesson per week and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=50.00

MVJ123 JAZZ GUITAR / SECONDARY
One hour lesson per week and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=50.00

MVJ124 ELECTRIC BASS / SECONDARY
One hour lesson per week and two hours practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=50.00

MVJ129 JAZZ PERCUSSION
One hour lesson per week and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=100.00

MVJ310 PRINCIPAL JAZZ PIANO I
Applied instruction in jazz piano for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=100.00

MVJ311 PRINCIPAL JAZZ GUITAR I
Applied instruction in jazz guitar for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=100.00

MVJ312 PRINCIPAL JAZZ ELECTRIC BASS I
Applied instruction in electric bass for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=100.00

MVJ313 PRINCIPAL JAZZ PERCUSSION I
Applied instruction in jazz percussion for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=100.00

MVK101 PRE-PRINCIPAL PIANO
College preparatory applied instruction in piano for the music principal. One hour lesson per week and two hours practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=100.00

MVK1211 ORGAN
College preparatory applied instruction in organ for the music principal. One hour lesson per week and two hours practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=100.00

MVK12222 ORGAN
One hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=50.00

MVK121 PRINCIPAL PIANO II
Applied instruction in piano for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=100.00

MVJ1213 PRINCIPAL ORGAN II
Applied instruction in organ for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=100.00

MVK1211 PIANO ONE
Basic piano skills for the beginning student. Corequisite: MVK1211 or MVK2221. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=50.00

MVK1211 PIANO TWO
(Lessons weekly) basic piano skills for the intermediate student. Corequisite: MVK1211 or MVK2221. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=50.00

MVK1211 PIANO THREE
Basic piano skills for the advanced student. Corequisite: MVK1211 or MVK2221. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=50.00

MVK1211 PIANO FOUR
Basic piano skills for the advanced student. Corequisite: MVK1211 or MVK2221. Lec Hrs=0  Lab Hrs=8  Cls Hrs=0  Oth Hrs=0  Fees=50.00
MVS231 PRINCIPAL PERCUSSION II
Applied instruction in percussion for the music principal. One hour lesson per week and one hour of practice daily. Prerequisite: Audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS116 GUITAR-CLASS
Class instruction in beginning classical guitar techniques.
Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=5 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

MVS1211 VIOLON
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=8 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

MVS12112 VIOLA
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=8 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

MVS12114 STRING BASS
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=8 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

MVS1213 CELLO
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=8 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

MVS12131 HARP
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=8 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

MVS1216 CLASSICAL GUITAR
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=8 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

MVS1311 PRINCIPAL VIOLON I
Applied instruction in violin for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=8 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

MVS1312 PRINCIPAL VIOLON I
Applied instruction in violin for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=8 Clin Hrs=0 Oth Hrs=0 Fees=$0.00

MVS13131 PRINCIPAL CELLO I
Applied instruction in cells for the music principal. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS13141 STRING BASS I
Applied instruction in string bass for the music principal. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS13151 HARP
One hour lesson weekly, and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS13161 PRINCIPAL CLASSICAL GUITAR I
Applied instruction in classical guitar for the music principal. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS2211 VIOLON
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=$50.00

MVS2212 GUITAR CLASS
Class instruction in intermediate guitar techniques.
Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS2221 VIOLON
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=8 Clin Hrs=0 Oth Hrs=0 Fees=$50.00

MVS2222 VIOLA
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=8 Clin Hrs=0 Oth Hrs=0 Fees=$50.00

MVS2223 CELLO
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=8 Clin Hrs=0 Oth Hrs=0 Fees=$50.00

MVS2224 STRING BASS
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS2321 PRINCIPAL VIOLON II
Applied instruction in violin for the music principal. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS2322 CLASSICAL GUITAR
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=8 Clin Hrs=0 Oth Hrs=0 Fees=$50.00

MVS2321 PRINCIPAL VIOLON II
Applied instruction in violin for the music principal. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS2323 PRINCIPAL SOPHOMORE HARP
Applied instruction in harp for the music principal. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS2326 PRINCIPAL CLASSICAL GUITAR II
Applied instruction in classical guitar for the music principal. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS2325 PRINCIPAL VIOLON II
Applied instruction in violin for the music principal. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS2325 PRINCIPAL CELLO II
Applied instruction in cello for the music principal. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS2324 PRINCIPAL STRING BASS II
Applied instruction in string bass for the music principal. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS2325 PRINCIPAL VIOLON II
Applied instruction in violin for the music principal. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00

MVS2326 PRINCIPAL CLASSICAL GUITAR II
Applied instruction in classical guitar for the music principal. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Lec Hrs=0 Lab Hrs=16 Clin Hrs=0 Oth Hrs=0 Fees=$100.00
MVV101 PRINCIPAL VOICE
College preparatory application in voice for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=50.00

MVV111 VOICE CLASS
Fundamentals of vocal production and building of solo repertoire. Term I, II and III.
Lec Hrs=0 Lab Hrs=2 Cls Hrs=0 Oth Hrs=0 Fees=50.00

MVV121 VOICE
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=8 Cls Hrs=0 Oth Hrs=0 Fees=50.00

MVW1013 PRINCIPAL CLARINET
College preparatory applied instruction in clarinet for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=100.00

MVW1014 PRINCIPAL BASSOON
College preparatory applied instruction in bassoon for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=100.00

MVW1015 PRINCIPAL SAXOPHONE
College preparatory applied instruction in saxophone for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=100.00

MVW1212 FLUTE
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=8 Cls Hrs=0 Oth Hrs=0 Fees=50.00

MVW1213 CLARINET
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=8 Cls Hrs=0 Oth Hrs=0 Fees=50.00

MVW1214 BASSOON
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=8 Cls Hrs=0 Oth Hrs=0 Fees=50.00

MVW1215 SAXOPHONE
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=8 Cls Hrs=0 Oth Hrs=0 Fees=50.00

MVW1311 PRINCIPAL FLUTE I
Applied instruction in flute for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition.
Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=8 Cls Hrs=0 Oth Hrs=0 Fees=50.00

MVW1312 PRINCIPAL OBOE I
Applied instruction in oboe for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition.
Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=100.00

MVW1313 PRINCIPAL CLARINET I
Applied instruction in clarinet for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition.
Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=100.00

MVW1314 PRINCIPAL BASSOON I
Applied instruction in bassoon for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition.
Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=100.00

MVW1315 PRINCIPAL SAXOPHONE I
Applied instruction in saxophone for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition.
Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=100.00

MVW1321 PRINCIPAL FLUTE II
Applied instruction in flute for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition.
Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=100.00

MVW1322 PRINCIPAL OBOE II
Applied instruction in oboe for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition.
Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=100.00

MVW2321 PRINCIPAL CLARINET II
Applied instruction in clarinet for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition.
Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=100.00

MVW2324 PRINCIPAL BASSOON II
Applied instruction in bassoon for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition.
Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=100.00

MVW2325 PRINCIPAL SAXOPHONE II
Applied instruction in saxophone for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition.
Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Cls Hrs=0 Oth Hrs=0 Fees=100.00

NMT1002 INTRODUCTION TO NUCLEAR MEDICINE TECHNOLOGY
This course is designed to introduce the student to the field of nuclear medicine. Upon completion of this course, the student will have knowledge upon vital signs, patient care, universal precautions, and phlebotomy. The student will also receive a brief overview on radiation safety and the most common procedures performed in nuclear medicine.
Pre or Corequisite: NMT1002L, NMT1430
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

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NMT100L INTRODUCTION TO NUCLEAR MEDICINE LAB
This course introduces the student to the fundamental systems of nuclear medicine by applying the skills learned in Introduction to Nuclear Medicine to fully prepare the student for the hospital and clinical site.
Pre or Corequisite: NMT1804
Lec Hrs.: 0 Lab Hrs.: 2 Lab Clin Hrs.: 0 Oth Hrs.: 0 Fees: 42.00

NMT130 RADIATION SAFETY AND RADIOBIOLOGY
This course is designed to illustrate the biologic effects of radiation and also informs the student on the protection and safety for themselves, others, and the environment. The students will learn how to follow appropriate procedures; dose limits, the long and short term effects of radiation, and how to handle and dispose of radioactive materials, and practice personnel monitoring of radiation exposure.
Pre or Corequisite: NMT132 Lab Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

NMT140 NUCLEAR PHYSICS AND MATHEMATICAL
This course educates the student on the principles of nuclear physics and important photon interactions that interplay with common radionuclides used in Nuclear Medicine. The student will also gain knowledge of the various calculations necessary for a successful nuclear technologist to attain.
Prerequisite: NMT104
Lec Hrs.: 0 Lab Hrs.: 4 Lab Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

NMT174 NUCLEAR MEDICINE PATHOLOGY
This course introduces the student to general pathological conditions with emphasis on those commonly seen in the field of nuclear medicine. Basic anatomy is reviewed in correlation to pathology of disease. Descriptions of how diseases are classified, diagnosed and treated, as well as the natural course/prognosis of these diseases are presented. Topics will include: Pathogenesis, disease classification systems, and the study of specific disease of the respiratory, skeletal, gastrointestinal, hematopoietic, urogenital, cardiovascular & hepatic reproductive systems with nuclear medicine imaging considerations.
Prerequisite: NMT140
Lec Hrs.: 0 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 28.00

NMT184 NUCLEAR MEDICINE CLINICAL EDUCATION II
Second in a five-course sequence of supervised clinical instruction in nuclear medicine technology. In addition to topics covered in Clinical Education I, the student is expected to prepare to perform routine quality control and some imaging procedures. Students must successfully complete all previous clinical education courses in nuclear medicine. The course is available to only majors who wish to investigate specific clinical education situations. Student must submit an application for the course to the Program Manager
Pre or Corequisite: NMT2723
Lec Hrs.: 0 Lab Hrs.: 0 Clin Hrs.: 256 Oth Hrs.: 0 Fees: 45.33

NMT271 NUCLEAR MEDICINE METHODOLOGY I LAB
This course is the first in a series of two laboratories which allows the student to apply their knowledge of the material they learn in Methodology I and enhance the student’s familiarity with the clinical setting.
Pre or Corequisite: NMT2713
Lec Hrs.: 0 Lab Hrs.: 32 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 34.00

NMT273 NUCLEAR MEDICINE METHODOLOGY II LAB
This course enhances the student’s knowledge attained from Methodology I by learning the remaining nuclear medicine procedures in order to properly execute all skill sets. The student will also demonstrate knowledge of any remaining PET imaging procedures not discussed in Methodology I. Students must successfully complete all required competencies as stated in the clinical handbook for the respective semester.
Pre or Corequisite: NMT2723
Lec Hrs.: 0 Lab Hrs.: 32 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 34.00

NMT275 NUCLEAR MEDICINE METHODOLOGY II LAB
This is the second in a series of two laboratories which allows the student to apply their knowledge of the material they learn in Methodology II and enhance the student’s familiarity within the clinical setting.
Pre or Corequisite: NMT2723
Lec Hrs.: 0 Lab Hrs.: 32 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 34.00

NMT277 INTRODUCTION TO MULTIPLE MODALITIES
This course educates the student about proper reading and interpretation of cross sectional anatomy. The student will also compare and analyze images from complementary modalities. It is crucial for the nuclear medicine technologist to understand three dimensional imaging in order to enhance patient care and be an asset to the facility.
Pre or Corequisite: NMT2824
Lec Hrs.: 0 Lab Hrs.: 32 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

NMT281 NUCLEAR MEDICINE SEMINAR
This course challenges the student with comprehensive testing, discussions and refinement of their accumulated knowledge of all aspects of Nuclear Medicine technology in preparation for the National Board Examinations.
Pre or Co requisite: NMT2714
Lec Hrs.: 0 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

NMT282 NUCLEAR MEDICINE ADMINISTRATION
The student will be introduced to the administrative duties required of a Nuclear Medicine Lab Manager. Upon completion, the student will attain knowledge of proper building skills, interviewing skills, stress management and overall successful in the healthcare field.
Pre or Corequisite: NMT2834
Lec Hrs.: 16 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

NMT283 RADIOACTIVE MATERIALS
This course will educate the student upon all aspects of all the radionuclides used in Nuclear Medicine: PET, SPECT, and MR. The student will understand how radionuclides are produced, how they decay, how they are used to produce images, and how to perform procedures on them; dispose of radioactive waste properly; demonstrate an understanding of ordering pharmaceuticals in appropriate dosage and at an effective time frame. Prerequisite: instructor approval
Pre or Corequisite: NMT2715 NMT2713L NMT2779
Lec Hrs.: 0 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

NMT284 NUCLEAR MEDICINE CLINICAL EDUCATION III
This course introduces the student to general pathological conditions with emphasis on those commonly seen in the field of nuclear medicine. Basic anatomy is reviewed in correlation to pathology of disease. Descriptions of how diseases are classified, diagnosed and treated, as well as the natural course/prognosis of these diseases are presented. Topics will include: Pathogenesis, disease classification quality control testing of imaging and non-imaging systems; which also include SPECT, PET, and CT applications.
Pre or Corequisite: NMT2834
Lec Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

NMT2713 NUCLEAR MEDICINE METHODOLOGY I (2)
This is the first in a series of two courses which thoroughly educate the student about nuclear medicine imaging procedures to allow the student proper execution of these procedures during a clinical rotation. The student will also demonstrate knowledge of respective PET imaging procedures frequently performed.
Pre or Corequisite: NMT2713L NMT2824
Lec Hrs.: 32 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 34.00

NMT2713L NUCLEAR MEDICINE METHODOLOGY I LAB
This is the first in a series of two laboratories which allows the student to apply their knowledge of the material they learn in Methodology I and enhance the student’s familiarity with the clinical setting.
Pre or Corequisite: NMT2713
Lec Hrs.: 0 Lab Hrs.: 32 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 34.00

NMT2723 NUCLEAR MEDICINE METHODOLOGY II
This course enhances the student’s knowledge attained from Methodology I by learning the remaining nuclear medicine procedures in order to properly execute all skill sets. The student will also demonstrate knowledge of any remaining PET imaging procedures not discussed in Methodology I. Students must successfully complete all required competencies as stated in the clinical handbook for the respective semester.
Pre or Corequisite: NMT2723
Lec Hrs.: 0 Lab Hrs.: 32 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 34.00

NMT2733 NUCLEAR MEDICINE METHODOLOGY II LAB
This is the second in a series of two laboratories which allows the student to apply their knowledge of the material they learn in Methodology II and enhance the student’s familiarity within the clinical setting.
Pre or Corequisite: NMT2723
Lec Hrs.: 0 Lab Hrs.: 32 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 34.00

NMT2743 INTRODUCTION TO MULTIPLE MODALITIES
This course educates the student about proper reading and interpretation of cross sectional anatomy. The student will also compare and analyze images from complementary modalities. It is crucial for the nuclear medicine technologist to understand three dimensional imaging in order to enhance patient care and be an asset to the facility.
Pre or Corequisite: NMT2824
Lec Hrs.: 0 Lab Hrs.: 32 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00

NMT284 NUCLEAR MEDICINE CLINICAL EDUCATION III
This is the second in a five-course sequence of supervised clinical instruction in nuclear medicine technology. In addition to topics covered in NMT1814, the student is expected to perform routine quality control and quality assurance procedures. Students must complete patient care competencies as determined by the program.
Pre or Corequisite: NMT2723
Lec Hrs.: 0 Lab Hrs.: 32 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 43.85

NMT2843 NUCLEAR MEDICINE CLINICAL EDUCATION IV
This is the fourth in a five-course sequence of supervised clinical education courses in nuclear medicine technology. In addition to topics covered in previous clinical education courses, the student is expected to perform all quality control and imaging procedures. The student should be progressing toward refinement with clinical experience and expanded knowledge. Students must continue to successfully complete the required number of competencies as stated in the clinical handbook for the respective semester.
Pre or Corequisite: NMT2723
Lec Hrs.: 0 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 43.85

NMT2844 NUCLEAR MEDICINE CLINICAL EDUCATION IV
The fifth in a five-course sequence of supervised clinical instruction in nuclear medicine technology. In addition to topics covered in all previous clinical education courses, the student is expected to perform all quality control and imaging procedures. Students must successfully complete all required competencies and random terminal competencies when asked.
Pre or Corequisite: NMT2723
Lec Hrs.: 0 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 43.85

NMT2901 INDEPENDENT STUDY IN NUCLEAR MEDICINE
A directed independent study course in nuclear medicine. The course is available to only majors who wish to investigate specific clinical education situations. Student must submit an application for the course to the Program Manager.
Pre or Corequisite: NMT2824
Lec Hrs.: 0 Lab Hrs.: 0 Clin Hrs.: 128 Oth Hrs.: 0 Fees: 16.33

NMT2902 NUCLEAR MEDICINE ADVANCE APPLICATIONS
This course allows the student to take a more in depth perspective upon previously taught courses with emphasis upon clinical application and knowledge developed from prior clinical education classes.
Pre or Corequisite: NMT2834
Lec Hrs.: 0 Lab Hrs.: 0 Clin Hrs.: 0 Oth Hrs.: 0 Fees: 0.00
NUR1210 NURSING PROCESS II

The second in a series of theoretical courses for the beginning nursing student. This course builds on previously learned concepts while incorporating more sophisticated nursing interventions related to medication administration, care of patients experiencing alterations in the basic needs of nutrition, elimination, comfort, fluid and electrolyte balance, oxygenation, mobility, and pain. 

Prerequisite: MTB1370 NUR1020 NUR1020L 
Pre or Corequisite: HSC1149 NUR1210 
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

NUR1210L NURSING PROCESS II CLINICAL LAB

The second in a series of clinical courses building on previously learned concepts while incorporating more sophisticated nursing interventions related to medication administration, care of patients experiencing alterations in the basic needs of nutrition, elimination, comfort, fluid and electrolyte balance, oxygenation, mobility, and pain. Course activities focus on nursing care of the adult patient experiencing medical/surgical problems.

Prerequisite: MTB1370 NUR1020 NUR1020L 
Pre or Corequisite: HSC1149 NUR1210 
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

NUR1220 HEALTH ALTERATIONS I

Health Alterations I is a course designed to provide the student with knowledge of alterations of ingestion, digestion, metabolism, and elimination throughout the life cycle. The major focus is on providing nursing care needs of the adult and pediatric patient through utilization of the nursing process. The student will be expected to apply the principles of anatomy, physiology, and pathophysiology of the digestive and genitourinary systems into the nursing process. Components of pharmacology and nutrition will be included in this course. Consideration is given to the psychosocial aspects of the wellness/illness continuum.

Prerequisite: MTB1370 NUR1210 NUR1210L 
Pre or Corequisite: NUR2020L 
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

NUR1220L HEALTH ALTERATIONS I CLINICAL LAB

Health Alterations I Clinical Lab is a course designed to provide the student with the opportunity to utilize the nursing process in the care of patients with alterations of ingestion, digestion, metabolism, and elimination throughout the life cycle. The student will be expected to correlate theoretical knowledge and scientific principles of medical/surgical situations, observational experiences, written assignments and performance exams may be included in this course.

Prerequisite: MTB1370 NUR1210 NUR1210L 
Pre or Corequisite: NUR2020L 
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

NUR1210L TRANSITION PEDIATRIC NURSING CLINIC LAB

This clinical course provides the LPN student with an understanding of growth and development through the stages of childhood and the application of the nursing process through these stages.

Prerequisite: NUR1210 NUR1220L 
Pre or Corequisite: NUR1310L 
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=74.53

NUR1310L PEDIATRIC NURSING

This pediatric course is designed to provide an understanding of growth and development through the stages of childhood and the application of the nursing process to these stages.

Prerequisite: NUR1210 NUR1220L 
Pre or Corequisite: NUR1310L 
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

This course is for the LPN student and will enable students to apply the nursing process in providing nursing care to the maternity patient, her family, and the fetus/newborn during antepartal, intrapartal, and postpartal periods. Consideration is given to the multiple factors which complicate the normal psychological or psychological process of the childbearing period.

Prerequisite: NUR1210 NUR1220L 
Pre or Corequisite: NUR1310L 
Lec Hrs=56 Lab Hrs=0 Cls Hrs=112 Oth Hrs=0 Fees=74.53

NUR1421L HEALTH CARE OF WOMEN CLINICAL LAB

This course is designed to provide the student with the knowledge of the reproductive and sexual needs of women throughout the life cycle. The major focus is directed to the childbearing portion of the life cycle. The student is expected to utilize the nursing process in providing nursing care to the maternity patient, her family, and the fetus/newborn during antepartal, intrapartal, and postpartal periods. Consideration is given to the multiple factors which complicate the normal psychological or psychological process of the childbearing period.

Prerequisite: NUR1210 NUR1220L 
Pre or Corequisite: NUR1421L 
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

NUR1421L HEALTH CARE OF WOMEN CLINICAL LABORATORY

(2) Health Care of Women is a clinical course designed to provide the student with an understanding of the knowledge of the reproductive system and health care needs of women throughout the life cycle. The major focus is directed to the childbearing portion of the life cycle. The student is expected to utilize the nursing process in providing nursing care to the maternity patient, her family, and the fetus/newborn during antepartal, intrapartal, and postpartal periods. Consideration is given to the multiple factors which complicate the normal psychological or psychological process of the childbearing period.

Prerequisite: NUR1210 NUR1220L 
Pre or Corequisite: NUR1421L 
Lec Hrs=48 Lab Hrs=0 Cls Hrs=112 Oth Hrs=0 Fees=75.33

NUR1500L TRANSITION PSYCHIATRIC NURSING CLINICAL LAB

(1) This clinical course provides the LPN student with a definition and understanding of psychiatric nursing. The nursing process is utilized to present pathological conditions. Therapeutic modalities are included.

Prerequisite: NUR1210 NUR1220L 
Pre or Corequisite: NUR1500L 
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

NUR1500L NURSING CARE OF THE PSYCHIATRIC PATIENT CLINIC LAB

(5) This course provides the student with a definition and understanding of psychiatric nursing. The nursing process is utilized to present pathological conditions. Therapeutic modalities are included.

Prerequisite: NUR1210 NUR1220L 
Pre or Corequisite: NUR1500L 
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

NUR1500L NURSING CARE OF THE PSYCHIATRIC PATIENT CLINICAL

(2) This clinical course provides the student with a definition and understanding of the psychiatric nursing process. The student is expected to present pathological conditions. Therapeutic modalities are included.

Prerequisite: NUR1210 NUR1220L 
Pre or Corequisite: NUR1500L 
Lec Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

NUR1500 TRANSITION NURSING

(2) This theoretical course for the LPN covers the following concepts: nursing process, legal aspects of nursing, communication techniques, computer concepts, and the role of the ADN registered nurse.
NUR200L  TRANSITION NURSING I  CLINICAL LAB (2) The student shall be responsible for providing care of a selected group of patients, being aware of legal and ethical principles, and protection in their care and effecting change as necessary. It will be essential for the student to examine their own values and motivations in attempting to problem-solve patient situations. Observational experiences, written assignments, and performance evaluations may be included in this course.

Pre or Corequisite: HSC149 MTB1370 NUR2000
Lec Hrs=0 Lab Hrs=0 Clin Hrs=112 Other Hrs=0 Fees=74.53

NUR222H  HEALTH ALTERATIONS II (3) In this course the student will be responsible for principles of alteration in mobility, skill integrity, and neurofunctional learning. Concepts of rehabilitation will be emphasized.

Pre or Corequisite: NUR1310 NUR1310L NUR1421 NUR1421L NUR1520
Lec Hrs=0 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=60.00

NUR222H2  HEALTH ALTERATIONS II CLINICAL LAB (2) This course is designed for the student to provide principles of alteration in mobility, skill integrity, and neurofunctional learning. This experience will require both clinical and written assignments. Evaluation will be based on their application of the nursing process to assigned patients.

Pre or Corequisite: NUR222H.
Lec Hrs=0 Lab Hrs=0 Clin Hrs=112 Other Hrs=0 Fees=89.53

NUR222H  HEALTH ALTERATIONS III (3) This course is designed to provide the student with the knowledge necessary to treat patients with cardiac dysfunctions throughout the life cycle. The focus is the pathophysiology, common medical, diagnostic and treatment modes, nursing assessments and interventions necessary to treat those patients. The students will be responsible for reviewing anatomy and physiology, pharmacology, pediatric and psychiatric principles as they apply to this course.

Pre or Corequisite: NUR222H
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

NUR222H2  HEALTH ALTERATIONS III CLINICAL LAB (2) In this course the student will be responsible for applying the nursing process to assigned patients with alterations in mobility, skill integrity and neurofunctional learning. This experience will require both clinical and written assignments. Evaluation will be based on their application of the nursing process to assigned patients.

Pre or Corequisite: NUR222H2.
Lec Hrs=0 Lab Hrs=0 Clin Hrs=112 Other Hrs=0 Fees=78.53

NUR2801  TRANSITION NURSING IV (3) This theoretical course for the LPN covers the following concepts: leadership, team management, legal ethical principles of the role of the LPN in the health care delivery system, and individual client’s perceptions of the health/illness status. The determination of the client within the context of the client’s socio-cultural values is essential in providing the framework for planning, implementing, communicating, and evaluating the outcomes of care. This course provides the LPN with leadership, team management skills, legal, ethical principles, and their application to nursing practice.

Pre or Corequisite: NUR2801L
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

NUR2801L  TRANSITION NURSING IV CLINICAL LAB (2) This course provides the LPN with opportunities to develop leadership skills, team management skills, and legal, ethical responsibilities. The LPN will participate in planning, implementing, communicating, and evaluating the outcomes of care. The LPN will develop knowledge, skills, and interactive and interpersonal techniques needed to obtain and communicate a systematic, culturally-appropriate, comprehensive health history and physical examination.

Pre or Corequisite: NUR3609 NUR3678 NUR3805
Lec Hrs=0 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=149.53

NUR319  NURSING CONCEPTS AND THEORIES (3) The profession of nursing is the culmination of concepts and theories. Concepts and theories are the body of knowledge gained to support nursing practice. Nursing recognizes that socialization into a discipline is guided by theories—use of language, identification of concepts and definition of relationships, structured ideas and facilitated disciplined inquiry, and communication, as well as predicting outcomes of nursing practice. The Nursing Concepts and Theories course will explore the major concepts, theories, and models that form the foundation of nursing. The course will also investigate the history and evolution of nursing leaders, evolving issues, concepts, and theories, and their application to nursing practice.

Pre or Corequisite: NUR3069 NUR3069L NUR3805
Lec Hrs=0 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

NUR3167  NURSING AS A SCHOLAR (3) Present aspects of scholarship that support the values of the nursing profession committed to the advancement. The practice of nursing derives knowledge from a wide array of other fields and disciplines adopting these knowledge as applicable to professional practice. This course examines these interrelationships and allows the nurse to utilize scholarly evidence to design and implement nursing care that is high-quality and cost effective to address issues important to the profession of nursing to question assumptions, and to utilize critical reasoning and judgment.

Pre or Corequisite: NUR3609 NUR3678 L NUR3805
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

NUR3167  ADVANCED HEALTH ASSESSMENT_LAB (1) The Advanced health care Assessment addresses the totality of the client including the physical aspects of health and wellness, and the individual client’s perceptions of the health/illness status. The determination of the client within the context of the client’s socio-cultural values is essential in providing the framework for planning, implementing, communicating, and evaluating the outcomes of care. This course provides the LPN with leadership, team management skills, legal, ethical principles, and their application to nursing practice.

Pre or Corequisite: NUR319 NUR3163
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

NUR3678  NURSING CARE OF VULNERABLE POPULATIONS (3) Caring for the vulnerable is imperative for the compassionate, caring, effective and competent nurse. This course focuses on health issues affecting at-risk and vulnerable populations. The course can advance reducing disparities in health care systems and health care delivery. The course emphasizes the interrelationships of socio-cultural and public health systems. Barriers to the navigation and utilization of health care systems are explored as related to the economical, legal, political, and cultural aspects of health promotion and health maintenance.

Pre or Corequisite: STA2023
Lec Hrs=0 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

NUR3805  NURSING, ROLES, DIMENSIONS, AND PERSPECTIVES (3) The discipline of nursing has been identified as having the potential for making a major impact on the transformation of health care delivery to a safer, quality, and cost effective system, thus improving healthcare outcomes across populations. This course facilitates the transition of the Registered Nurse with an Associate Degree in Nursing or diploma to the role of the BSN graduate. It encompasses the history, evaluation, ethical imperatives, trends and issues impacting the theory and practice of nursing in both social relevance and scientific values of the nursing profession committed to the advancement. The practice of nursing derives knowledge from a wide array of other fields and disciplines adopting these knowledge as applicable to professional practice. This course examines these interrelationships and allows the nurse to utilize scholarly evidence to design and implement nursing care that is high-quality and cost effective to address issues important to the profession of nursing to question assumptions, and to utilize critical reasoning and judgment.

Pre or Corequisite: STA2023
Lec Hrs=0 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

NUR3850  NURSING RESEARCH (3) This course explores the research process and allows the student to apply research methods relevant to nursing research and practice. Emphasis is placed in the legal, ethical, socio-cultural, economic and political implications of research in nursing and health care. Evidence-based practice is emphasized in guiding nursing practice.

Pre or Corequisite: NUR319 NUR3163
Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

NUR4195  END OF LIFE PALLIATIVE CARE (3) This course is designed to recognize death as the last stage of human growth and development. With a focus on the physical, emotional, psychosocial, spiritual, and cultural considerations at the end-of-life, the student will explore ethical and legal issues to enhance their skills and knowledge when working with patients and families at the end-of-life.

Pre or Corequisite: NUR319 NUR3163
Lec Hrs=0 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00
The aging population will affect the skills and services the healthcare workforce must provide. As a result of an increasingly diverse, nursing practice has become a greater need as a consideration and cultural sensitivity into increased globalization affecting health care.

**NUR4284 DYNAMICS AND CONTEMPORARY ISSUES IN AGING**

The aging population will affect the skills and services the healthcare workforce must provide. As a result of an increasingly diverse, nursing practice has become a greater need as a consideration and cultural sensitivity into increased globalization affecting health care.

**NUR4516 NURSING CAPSTONE PRACTICUM**

This course focuses on health promotion; risk reduction; direct and indirect care of clients, families, groups, and population; and providing the human interface health care systems and the client. Following the completion of all required RN-BSN, general education, state of Florida and program pre-requisite course requirements, the Nursing Capstone Practicum requires the student to demonstrate the competencies consistent with program outcomes.

**NUR4542 PRINCIPLES OF NURSING LEADERSHIP AND MANAGING**

This course provides a forum for the examination and discussion of concepts, theories, and principles of leading and managing for the nurse manager to be effective in today’s diverse and global health care environment. Grounded in evidence-based practice, ethics, the professional, political, and legal context of contemporary health systems are examined in terms of role of the nurse in health care, clinical reasoning, management, and the nurse manager’s role in health care programs in various settings.

**NUR4636 COMMUNITY HEALTH NURSING**

The community-based nurse cares for clients from many diverse cultures and must be prepared to provide quality, effective, and culturally competent health care in a variety of settings and specialties. This course focuses on the role of the nurse in community, interpersonal skills, negotiation, group facilitation, and accountability in various populations.

**NUR4636 COMMUNITY HEALTH NURSING**

The community-based nurse cares for clients from many diverse cultures and must be prepared to provide quality, effective, and culturally competent health care in a variety of settings and specialties. This course focuses on the role of the nurse in community, interpersonal skills, negotiation, group facilitation, and accountability in various populations.

**NUR4945 NURSING CAPSTONE**

Professional practice of the Registered Nurse focuses on health promotion; risk reduction; direct and indirect care of clients, families, groups, and population; and providing the human interface health care systems and the client. Following the completion of all required RN-BSN, general education, state of Florida and program pre-requisite course requirements, the Nursing Capstone Practicum requires the student to demonstrate the competencies consistent with program outcomes.

**OPT1105 OPTICAL LENSES LAB**

This course provides the opportunity for students to gain hands on experience in the accurate positioning of the optical centers and selected multifocal addition designs. ANSI and F.D.A. standards, prescription ordering and verification processes will be applied to patient jobs.

**OPT1210 ANATOMY AND PHYSIOLOGY OF THE EYE**

This course provides a review of the structure and function of the systems of the human body, emphasizing the anatomy of the human visual system. The topics covered will include problem solving in all aspects of our visual system to understand how the hydrostructure, light, color, and space are perceived by the eye.

**OPT1700 PHYSICAL AND GEOMETRIC OPTICS**

This course provides a review of light, including energy, transmission, reflection, refraction, and polarization. Emphasis is placed on the physical and geometric properties of light and their applications in the field of optical science.

**OPT1100 PHYSICAL AND GEOMETRIC OPTICS**

This course provides a review of light, including energy, transmission, reflection, refraction, and polarization. Emphasis is placed on the physical and geometric properties of light and their applications in the field of optical science.

**OPT1100 PHYSICAL AND GEOMETRIC OPTICS**

This course provides a review of light, including energy, transmission, reflection, refraction, and polarization. Emphasis is placed on the physical and geometric properties of light and their applications in the field of optical science.

**OPT1150 OPTICAL LENSES**

Characteristics of single vision and multifocal lens reference points for proper lens selection to improve visual needs of the patient. Emphasis is placed on accurate positioning of the optical centers and selected multifocal addition designs. ANSI and F.D.A. standards, prescription ordering and verification processes will be applied to patient jobs.
OPT240L OPTHALMIC DISPENSING LAB
This course provides the opportunity for students to practice ophthalmic dispensing. Measurement and adjusting of spectacle frames, care of frames, multilens, occupational bifocals, high index lenses and low vision devices will be emphasized. The process of analyzing a patient's prescription and identifying the patient's specific visual needs for the proper frame and lens selection is highlighted. Prerequisite: OPT1150L OPT1350 OPT2375 Pre or Corequisite: OPT2410 OPT2830L. Lec Hrs=0 Lab Hrs=64 Clin Hrs=0 Oth Hrs=0 Fees:7.00

OPT268 OPTHALMIC MANAGEMENT POLICY AND PROCEDURES
This course provides a review of procedures and terminology in correspondence, legal and ethical principles, inter- and intra-professional relationships, and retail office management. The history of opticianry, optometry and ophthalmology is traced. Special emphasis is on a comprehensive review of the curriculum. The student will be required to present oral and written reports. Prerequisite: OPT1000L OPT2875 Pre or Corequisite: OPT2876 Lec Hrs=0 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees:0.00

OPT209 ORIENTATION TO VISION CARE CLINIC
This course provides introduction to the Broward College Vision Care Clinic. Students will acquire technical skills acquired in previous courses. Recording of clinical data, administrative procedures and techniques in patient handling under the close supervision of clinic instructors and students. Prerequisite: OPT110 OPT1210 OPT1330 Lec Hrs=0 Lab Hrs=0 Clin Hrs=32 Oth Hrs=0 Fees:0.00

OPT2375 REFRACTOMETRY
This course reviews the theory and terminology used in determining the powers of corrective lenses in relation to a patient's refractive error. Emphasis is placed on the use of the kerometer, retinoscope, and automated refraction instruments. Problems associated with the change in refractive powers will be discussed. Prerequisite: OPT110 OPT1110L OPT1210 Pre or Corequisite: OPT1130 OPT1150L OPT2375 OPT2800L. Lec Hrs=0 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees:16.50

OPT2420 EYEWEAR FABRICATION I
This course presents the theory of ophthalmic surfacing and finishing procedures. Students acquire knowledge to arrange single vision and multifocal lenses, use lensometers and lens clocks; operate project-o-markers for lens layout, select or fabricate frame patterns; utilize several systems for surfacing and edging lenses for ophthalmic frames. Prerequisite: OPT2400L OPT2800L Pre or Corequisite: OPT2421 OPT2835L. Lec Hrs=16 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees:8.00

OPT2421 EYEWEAR FABRICATION II
Advanced techniques in measurement, fabrication and verification of single vision and multifocal lenses. Theory of ophthalmic surfacing and finishing procedures from written specifications ensuring that current ANSI and FDA standards are satisfied. Prerequisite: OPT2420 OPT2420L Pre or Corequisite: OPT2421L. Lec Hrs=16 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees:0.00

OPT2421L EYEWEAR FABRICATION II LAB Laboratory to peel and fit. Students will fabricate eyewear for the patients of the Vision Care Clinic using advanced techniques in measurement, fabrication and verification of single vision and multifocal lenses. Advanced techniques in the operation and maintenance of manual and computerized equipment. Prerequisite: OPT2420 OPT2420L Pre or Corequisite: OPT2421L. Lec Hrs=0 Lab Hrs=64 Clin Hrs=0 Oth Hrs=0 Fees:0.00

OPT2460 OPTHALMIC DISPENSING CLINIC I
Development of skills in the dispensing of ophthalmic lenses. Students will work under the close supervision of clinical staff in dispensing glasses to patients of the Vision Care Clinic. Emphasis will be placed on techniques used to dispense new technology in ophthalmic frame materials; multifocal lenses including progressive power and occupational bifocals; and high index lenses. Prerequisite: OPT2375 OPT2800L Pre or Corequisite: OPT2375L OPT2875. Lec Hrs=0 Lab Hrs=0 Clin Hrs=80 Oth Hrs=0 Fees:23.50

OPT2830L CONTACT LENS CLINIC I
Assist eye care specialists in the fitting and follow-up care of rigid and soft contact lenses for patients referred from the Vision Care Clinic. Familiarization with over-refraction, instructions for lens handling, cleaning, care and storage, and basic contact lens pathology. Prerequisite: OPT2400L OPT2420 OPT2800L Pre or Corequisite: OPT2420 OPT2420L. Lec Hrs=0 Lab Hrs=0 Clin Hrs=120 Oth Hrs=0 Fees:23.50

OPT2831L CONTACT LENS CLINIC II
This course involves the use of contact lenses to conform to lens parameters for replacement lenses. Particular attention is given to the patient who is having problems with contact lenses. A regimen for management of lens wear will be developed. Prerequisite: OPT2420 OPT2420L OPT2830L. Lec Hrs=0 Lab Hrs=0 Clin Hrs=80 Oth Hrs=0 Fees:23.50

OPT2950 CONTACT LENS THEORY
This course provides a review of the theory and terminology of contact lenses including fitting, application and removal procedures, care of soft and hard lenses, verification of contact lens prescription and «in-office» modification of contact lenses. Prerequisite: OPT1150 Corequisite: OPT1450. Lec Hrs=16 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees:0.00

OPT2875 OPTHALMIC DISPENSING PRACTICUM I
In this laboratory course students will fabricate eyewear for the patients of the Vision Care Clinic using advanced techniques in fabrication and verification of single vision and multifocal lenses. Advanced techniques in the operation and maintenance of manual and computerized equipment. Prerequisite: OPT2375 OPT2420 OPT2420L OPT2879. Lec Lab Hrs=0 Clin Hrs=120 Oth Hrs=0 Fees:21.35

OPT2876 OPTHALMIC DISPENSING PRACTICUM II
This is an externship in an approved retail ophthalmic dispensary establishment involving frame styling, ordering of appropriately designed lenses, adjustment, repair and dispensing of eyewear. The student will gain a working knowledge of administrative management procedures of the practice. Prerequisite: OPT2420 OPT2830L OPT2875 Pre or Corequisite: OPT2461 OPT2461L. Lec Lab Hrs=0 Clin Hrs=120 Oth Hrs=0 Fees:21.35

OPT2879 REFRACTOMETRY PRACTICUM
Practicum for OPT2375. Practical procedures used in determining the powers of corrective lenses in relation to a patient's refractive error. The student will learn to use the phoropter, retinoscope, and automated refraction instruments in determining the patient's subjective and objective refraction. Problems associated with the change in refractive powers will be demonstrated. Prerequisite: OPT1110 OPT1110L OPT2130 Pre or Corequisite: OPT2375 OPT2375L OPT3755 Lec Lab Hrs=0 Clin Hrs=120 Oth Hrs=0 Fees:21.35

ORH1123 NATIVE UPLAND PLANTS
This course includes the identification of approximately 100 plants and plant groups native or naturalized in the higher ground habitats of South Florida. The application of these plants as in-situ, mitigation or landscape components in the design of passive and active-use parks. Completion of any landscape plant identification class, ORH1124, ORH1150, ORH1151, ORH1212 or ORH1213 is strongly recommended. Lec Hrs=0 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees:0.00

ORH1254 NATIVE WETLAND PLANTS
This course is a continuation of HS101, Native Upland Plants. It includes the identification of approximately 100 plants and plant groups native or naturalized in fresh and salt water wetlands of South Florida. The application of these plants as in-situ and mitigation species in ecological, landscape and esthetic situations will be done in the field. Prerequisite: Instructor approval. Lec Hrs=0 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees:0.00
This course offers an introduction to the keyboard with development of fundamental techniques, mini-examinations of spelling, grammar and punctuation to produce written communication. The student will study legal terminology, operate a desktop publishing system, and develop business correspondence, memos, and general business documents to ensure appropriate content and structure. Special focus includes grammar and all types of business correspondence, forms, reports, and tables. Rewards are required in addition to the scheduled course hours. A minimum completion speed of 45 words per minute with a 5 error cutoff on 3-minute timed writings is required. Prerequisite: OST1100C

OST2535 COMMUNICATIONS IN THE WORKFORCE
This course is designed to provide student with the extensive knowledge of medical terminology used in the various areas of the healthcare industry. Emphasis is placed on the building of medical terms from word parts. Lect Hrs=16 Lab Hrs=32 Cln Hrs=0 Oth Hrs=0 Fees=74.00

OST1155 RECORDS MANAGEMENT
Students will act as records managers in a simulated office utilizing computerized and paper management of records from planning, creation, filing, and retrieving to disposal according to HIPAA principles. The student will learn and work with the basic legal requirements (such as Privacy Act and Freedom of Information Act) for the release and billing and coding positions in the medical field. In-depth study of the various areas of medical billing/coding, workers' compensation, reimbursement, and appeal are presented. Prerequisite: OST1257C Lect Hrs=12 Lab Hrs=16 Cln Hrs=0 Oth Hrs=0 Fees=0.00

OST2795 TELECOMMUNICATIONS
A hands-on course utilizing the Internet. Course topics include telecommunications terminology, the use of the world wide web, bulletin boards, attachments, address book works, search engines, history lists, browser programs and customizing the browser, e-mail etiquette, legal issues, and organizing and archiving e-mail are also investigated. Lect Hrs=9 Lab Hrs=16 Cln Hrs=0 Oth Hrs=0 Fees=0.00

OST1130 BUSINESS ENGLISH
This course provides a refresher course in business keyboarding and document processing. This course prepares a medical office assistant to work in a health care practice utilizing computerized and simulated medical office management software. It provides training for input of new patient entry, posting procedures and payments, insurance billing, appointment scheduling, file maintenance with support files, and generating the daily, end-of-month, and end-of-period reports which are performed in a medical office. Lect Hrs=48 Lab Hrs=0 Cln Hrs=0 Oth Hrs=0 Fees=48.00

OST2561 TRANSMITTING MACHINES
This course emphasizes skill development for accurate transcription of recorded dictation to office standard proficiency levels. Special materials related to each student's major subject areas of legal and medical are provided. Lect Hrs=0 Lab Hrs=48 Cln Hrs=0 Oth Hrs=0 Fees=0.00

OST2456C MEDICAL BILLING AND CODING II
This course provides extended knowledge and skills needed to work in a variety of medical billing and coding positions in the medical field. Topics include medical coding, medical claims, medical billing, accounts receivable, and medical billing software. Prerequisite: OST2446C Lect Hrs=24 Lab Hrs=24 Cln Hrs=0 Oth Hrs=0 Fees=0.00

OST2464C MEDICAL OFFICE COMPUTER APPLICATION
This course prepares a medical office assistant to work in a health care practice utilizing computerized and simulated medical office management software. It provides training for input of new patient entry, posting procedures and payments, insurance billing, appointment scheduling, file maintenance with support files, and generating the daily, end-of-month, and end-of-period reports which are performed in a medical office. Lect Hrs=48 Lab Hrs=0 Cln Hrs=0 Oth Hrs=0 Fees=48.00

OST2746C ADVANCED WORD
This course will provide specialized training on advanced word processing concepts and techniques. The major emphasis of this course will be the formatting of characters, paragraphs and documents, managing text flow, graphics, advanced table features, reference tools, mail merge and macros, and customizing Word. The skills developed by students completing this course will help prepare them for the Microsoft Certified Application Specialist (MCAS) exam. Prerequisite: Keyboarding speed of 40 words a minute
Lect Hrs=16 Lab Hrs=52 Cln Hrs=0 Oth Hrs=0 Fees=19.00

OST2949 CO-OP WORK EXP
A course designed to provide training in a student's area of study through work experience. Students are graded on the basis of learning objectives and employer evaluations. Lect Hrs=0 Lab Hrs=0 Cln Hrs=0 Oth Hrs=144 Fees=0.00

PAD2002 INTRODUCTION TO PUBLIC ADMINISTRATION
This introductory course examines the governmental context of public administration including public policy, bureaucracy, the role of public administration in society, and the administrative process including public administration, budgeting, policy making and governmental regulation. The objective of this course is to provide the student with an overview of public administration with an emphasis on the political context. Lect Hrs=48 Lab Hrs=0 Cln Hrs=0 Oth Hrs=0 Fees=0.00

PCB5063 GENETICS
Fundamental properties of inheritance in eukaryotic organisms emphasizing examples in man. Basic concepts are developed for the nature, organization, transmission, expression, recognition, and function of genetic materials, and principles are derived for genetically characterizing populations. Prerequisite: PCB-063 + pcb-0631 + pcb-0632 or PCB-063 + pcb-0631. Lect Hrs=48 Lab Hrs=0 Cln Hrs=0 Oth Hrs=0 Fees=0.00

OST1160 INTRODUCTION TO GENERAL BIOLOGY
An overview of outdoor and indoor games and activities for various age groups in a recreational context. Lect Hrs=16 Lab Hrs=52 Cln Hrs=0 Oth Hrs=0 Fees=0.00
PEM 116 FUNCTIONAL WELLNESS

Functional Wellness emphasizes the importance of knowledge, attitudes, and practices relating to personal wellness. This course is designed to expose students to a broad range of issues and information relating to the various aspects of personal wellness including physical, social, emotional, intellectual, spiritual, and environmental wellness. This course integrates personal wellness and fitness in both a classroom and exercise environment. Students will learn how to apply theoretical concepts of physical, exercise and healthy living in ways that will contribute to the wellness of the community and the environment.

Lec Hrs=16 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=1.00

PEN 121 BEGINNING BASIC SAILING

This basic course includes the fundamentals and techniques of handling a Windsurfing Board that are necessary for safe and enjoyable use in this activity. Coeducational.

Lec Hrs=0 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=26.00

PEN 121 WINDSURPING

This basic course includes the fundamentals and techniques of handling a Windsurfing Board that are necessary for safe and enjoyable use in this activity. Coeducational.

Lec Hrs=0 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=26.00

PEN 122 INTERMEDIATE SWIMMING

Coeducational.

Lec Hrs=0 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=29.00

PEN 123 SCUBA DIVING

This course offers competencies for the PADI basic SCUBA course which will learn fundamental skills of snorkeling and scuba diving, as well as theories and knowledge for safe diving. This course requires a PADI Open Water Diver certification and will be offered to students who desire to pursue scuba diving as a hobby. The course will be offered on a space available basis to students who have completed the PADI Open Water Diver course.

Lec Hrs=16 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=31.00

PEN 141 AEROBIC WELLNESS

Aerobic Wellness emphasizes the importance of knowledge, attitudes, and activities relating to personal wellness. It is a course designed to expose students to a broad range of issues and information relating to the various aspects of personal wellness including physical, social, emotional, intellectual, spiritual, and environmental wellness. This course integrates personal wellness and fitness in both a classroom and exercise environment. Students will learn how to apply theoretical concepts of physical, exercise and healthy living in ways that will contribute to the wellness of the community and the environment.

Lec Hrs=16 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=18.00

PEN 171 AQUATIC WELLNESS

Aquatic Wellness emphasizes the importance of knowledge, attitudes, and activities relating to personal wellness. It is a course designed to expose students to a broad range of issues and information relating to the various aspects of personal wellness including physical, social, emotional, intellectual, spiritual, and environmental wellness. This course integrates personal wellness and fitness in both a classroom and exercise environment. Students will learn how to apply theoretical concepts of physical, exercise and healthy living in ways that will contribute to the wellness of the community and the environment.

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

PET 122 CARE/PREVENTION/ATHLETIC INJURIES

Develops competence, knowledge and skill in the prevention and care of athletic injuries. Lec Hrs=32 Lab Hrs=0 Clin Hrs=0 Oth Hrs=0 Fees=0.00

PGY 1801C PHOTOGRAPHY DESIGN

This course focuses on the techniques and processes involved in digital imaging. Students will learn how to use computers and digital cameras to create digital images that can be used for a variety of purposes, including photography, web design, and multimedia. The course will cover the basic principles of digital imaging, including color theory, and will focus on the use of digital cameras, scanners, and other digital tools.

Lec Hrs=24 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=5.00

PGY 1802C DIGITAL PHOTOGRAPHY

This is a graphic design course that focuses on the techniques and processes involved in digital imaging. Students will learn how to use computers and digital cameras to create digital images that can be used for a variety of purposes, including photography, web design, and multimedia. The course will cover the basic principles of digital imaging, including color theory, and will focus on the use of digital cameras, scanners, and other digital tools.

Lec Hrs=24 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=5.00

PGY 1803C FINE ARTS DIGITAL PHOTOGRAPHY

This course is designed to introduce students to the techniques and processes involved in digital imaging. Students will learn how to use computers and digital cameras to create digital images that can be used for a variety of purposes, including photography, web design, and multimedia. The course will cover the basic principles of digital imaging, including color theory, and will focus on the use of digital cameras, scanners, and other digital tools.

Lec Hrs=24 Lab Hrs=32 Clin Hrs=0 Oth Hrs=0 Fees=5.00
Course introduces the student to the basic physical principles that apply to common specialized therapeutic procedures in the field of physical therapy. Topics include but are not limited to body mechanics, kinesiology, the physiological effects of heat, cold, sound and electricity to facilitate heating.

Prerequisite: PHT1105L 
Corequisite: PHT1211

Lec Hrs=16 Lab Hrs=6 Clin Hrs=0 Other Hrs=0 Fees=0.00

PHT1010 PHYSICAL PRINCIPLES FOR THE PT ASSISTANT

Course introduces the student to the basic physical principles that apply to common specialized therapeutic procedures in the field of physical therapy. Topics include but are not limited to body mechanics, kinesiology, the physiological effects of heat, cold, sound and electricity to facilitate heating.

Prerequisite: PHT1105L 
Corequisite: PHT1211

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

PHT1211 DISABILITIES AND THERAPEUTIC PROCEDURES I LAB

Course introduces the student to the theory and practical application of physical therapy modalities. The physiological effects of the various modalities are discussed. Surface anatomy is reviewed with an introduction to basic pathophysiology. 

Prerequisites: BSC2086 BSC2086L PHT1105 LECT1200 
Corequisites: PHT1211

Lec Hrs=32 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

PHT1200L INTRODUCTION TO PHYSICAL THERAPY LAB

Lecture sessions for Introduction to Physical Therapy (PHT1200L) are designed to allow the students an opportunity to familiarize themselves with the basic fundamentals of patient care. Emphasis is on body mechanics, kinesiology, the physiological effects of heat, cold, sound and electricity to facilitate heating.

The effects of aging upon disease and in general are considered. 

Prerequisite: PHT1210L 
Corequisite: PHT1210

Lec Hrs=32 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

PHT1310 SURVEY OF MUSCULOSKELETAL DEFICITS

Course introduces student to general pathological conditions with emphasis on those commonly seen in the field of physical therapy as they relate to the musculoskeletal system. Descriptions of how musculoskeletal diseases are classified, diagnosed and treated, as well as the natural course/prognosis of these diseases are presented. Implications of disease processes as well as contraindications, precautions and patient/caregiver education related to physical therapy are discussed through case study analysis.

The effects of aging upon disease and in general are considered. 

Prerequisite: BSC2086 BSC2086L 
Corequisites: PHT1210 LECT1210

Lec Hrs=32 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

PHT1350 BASIC PHARMACOLOGY FOR PT ASSISTANTS

Course introduces concepts of basic pharmacology and presents pharmacological agents dispensed for conditions commonly seen in physical therapy. Drug responses and interactions as they relate to clinical practice are discussed. 

Prerequisite: PHT1105 
Corequisites: PHT1211 LECT1224

Lec Hrs=16 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

PHT1400L APPLIED KINÉSIOLOGY (3)

This course is designed as part of a continuum in the application of anatomy to facilitate student understanding of functional movements with specific focus on the relationship between joint structure and function. Principles of biomechanics as it relates to musculoskeletal function will be reviewed.

Normal and pathological gait patterns are presented as well as normal and pathological movements of the head, spine, pelvic, upper extremities, and LE. Special tests which help identify specific gait deviations will be discussed. Case studies of various functional impairments with an emphasis on functional task analysis as well as therapeutic intervention approaches which help restore function are presented. Orthotic interventions for the spine and extremities are discussed with an emphasis on correcting pathological biomechanics.

Prerequisite: PHT1100 PHT2224 
Corequisite: PHT1211

Lec Hrs=48 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

PHT1520L APPLIED KINÉSIOLOGY LAB

Lecture sessions for Applied Kinesiology (PHT1520L) are designed to provide opportunities for the students to practice the skills of analyzing normal and pathological gait, along with normal and abnormal movements of the head, spine, pelvic, upper extremities and LE. Performance of special tests will be practiced. Palpation of surface anatomy and review of anatomical/bony landmarks occurs. Through completion of lab activities and case studies, the student correlates patient problems to various pathologies with their deficits in function and identifies any gait, therapeutic interventions which incorporate progression will be developed to address functional deficits. Orthotic interventions for the spine and extremities are applied with an emphasis on correcting pathological biomechanics.

Prerequisite: PHT1211L, PHT2224L 
Corequisite: PHT1520L, PHT2129 
Co-requisites: PHT1211L, PHT2129 

Lec Hrs=32 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00

PHT1620 SURVEY OF NEUROLOGICAL DEFICITS

Course introduces the etiology, pathophysiology and symptoms of common neurological diseases/ conditions. Neurodiagnostic procedures are presented. Course introduces the etiology, pathophysiology and clinical manifestations of common neurological diseases/conditions including but not limited to cerebrovascular accidents, traumatic brain injuries, and spinal cord injuries. Basic neuroanatomy of the central and peripheral nervous systems is reviewed. Reflex integration as well as normal growth and development of the nervous system is discussed.

Open line case studies in the form of Grand Rounds assignments of various neurological conditions are completed. 

Prerequisite: PHT1105 
Corequisite: PHT1210 PHT2810L 

Lec Hrs=64 Lab Hrs=0 Clin Hrs=0 Other Hrs=0 Fees=0.00
PHT2244. DISABILITIES & THERAPEUTIC PROCEDURES II (2)
Laboratory sessions for Disabilities and Therapeutic Procedures (PHT2244) are designed to provide the student with observation and actual application of therapeutic exercise in the laboratory setting. Case studies of various medical conditions with emphasis on therapeutic exercise interventions are included. ROM and stretching techniques are practiced. Goniometry and manual muscle testing procedures are practiced as they relate to the provision of therapeutic exercise. Data collection relative to the course content as well as patient and caregiver education are emphasized. Skill checks are completed. Students are expected to demonstrate knowledge and skill in developing and carrying out appropriate interventions for a patient with neurological deficits. Professional behaviors, at the entry level, are presented. A basic introduction to goniometry and manual muscle testing procedures is presented as it pertains to the development of appropriate therapeutic exercise interventions.

Prerequisite: PHT1103 PHT1310
Corequisite: PHT1211 PHT1801L PHT2244L
Lec Hrs=0 Lab Hrs=0 Clsn Hrs=0 Oth Hrs=0 Fees=0.00

PHT2245. CLINICAL PRACTICE II (5)
Course involves full student assignment to a local clinical facility. Includes scheduled class meetings to discuss clinical performance objectives, the self-appraisal process, and overall requirements for this entry-level practicum. A clinical journal, a case study report and a research project are required. Class discussions are held to share and discuss experiences, patient care problems, readiness for the workforce, leadership responsibilities, and professional growth, etc. Weekly online discussion forums facilitate critical thinking, peer review, and managing clinical situations at the intermediate level. Students attend a personal conference with the academic coordinator of clinical education to discuss progress and to identify areas of strength/weakness with appropriate education and guidance. Students are expected to demonstrate competency in developing and carrying out an appropriate therapeutic exercise program including effective documentation.

Corequisite: PHT1103 PHT1211L PHT2244
Lec Hrs=0 Lab Hrs=0 Clsn Hrs=0 Oth Hrs=0 Fees=22.00

PHT2246. REHABILITATION PROCEDURES LAB (1)
Laboratory sessions for Rehabilitation Procedures (PHT2246) are designed for the students to practice the utilization of developmental postures in patient intervention or higher as well as PNF, facilitation/inhibition techniques and other forms of advanced therapeutic exercise approaches. Stump wrapping and arm immobilization management of prosthetic patients are practiced. Care studies of various medical conditions with emphasis on advancement of development. Discharge approaches as well as application of prosthetic techniques are completed. Data collection relative to the course content as well as patient and caregiver education are emphasized. Skill checks are completed. Students are expected to demonstrate knowledge and skill in developing and carrying out appropriate interventions for a patient with neurological deficits. Professional behaviors, at the entry level, are presented. A basic introduction to goniometry and manual muscle testing procedures is presented as it pertains to the development of appropriate therapeutic exercise interventions.

Prerequisite: PHT1210L PHT2110
Corequisite: PHT2161 PHT2162
Lec Hrs=0 Lab Hrs=4 Clsn Hrs=0 Oth Hrs=0 Fees=24.53

PHYS2048. GENERAL PHYSICS WITH CALCULUS I LAB (4)
PHY2048 is part of a comprehensive course in physics outlining topics in mechanics, wave motion and sound using analysis in calculus. Pre or Co-requisite: MAC2312 PHY2048L
Lec Hrs=0 Lab Hrs=4 Clsn Hrs=0 Oth Hrs=0 Fees=84.00

PHY2049. GENERAL PHYSICS WITH CALCULUS II LAB (4)
PHY2049 is part of a comprehensive course in physics outlining topics in mechanics, wave motion and sound using analysis in calculus. Pre or Co-requisite: MAC2313 PHY2049L
Lec Hrs=0 Lab Hrs=4 Clsn Hrs=0 Oth Hrs=0 Fees=87.00

PHY2101. APPLIED PHYSICS LAB (1)
PHY1001 is an introductory course in general physics outlining topics in mechanics, magnetism, optics, and thermodynamics. The course is intended for students in technical or vocational fields. The student will learn to analyze and solve problems using analysis in algebra and written composition projects.

Pre or Co-requisite: MAT1035
Lec Hrs=0 Lab Hrs=1 Clsn Hrs=0 Oth Hrs=0 Fees=8.00

PHY2110. APPLIED PHYSICS LAB (1)
PHY1001 is a laboratory which allows students to be able to collect and analyze data in a variety of experiments covering topics covered in its companion course PHY1001. Students will create experiment reports using analysis in algebra.

Placement Department or Pre or Co-requisite: PHY1001
Lec Hrs=0 Lab Hrs=3 Clsn Hrs=0 Oth Hrs=0 Fees=8.00

PHY2053. GENERAL PHYSICS I (5)
PHY2053 is the first course in a two semester sequence outlining mechanics, properties of matter, heat and sound. Algebra, trigonometry, geometry and vector methods will be used in the quantitative description of these topics.

Placement Department or Pre or Co-requisite: PHY2053L
Pre or Co-requisite: PHY2053L
Lec Hrs=48 Lab Hrs=0 Clsn Hrs=0 Oth Hrs=0 Fees=0.00

PHY2053L. GENERAL PHYSICS I LAB (1)
PHY2053L is in a laboratory which allows students to be able to collect and analyze data in a variety of experiments covering topics covered in its companion course PHY2053. Students will create experiment reports using analysis in algebra.

Placement Department or Pre or Co-requisite: PHY2053
Lec Hrs=0 Lab Hrs=3 Clsn Hrs=0 Oth Hrs=0 Fees=18.00

PHY2054. GENERAL PHYSICS II (5)
PHY2054 is the second course in a two semester sequence, PHY2053 and PHY2054. This sequence includes laboratory PHY2054L which will be taken concurrently with PHY2053, and PHY2054L for the two hour period per week. Special fee charged. Placement Department or Pre or Co-requisite: PHY2053L
Lec Hrs=0 Lab Hrs=3 Clsn Hrs=0 Oth Hrs=0 Fees=30.00

PHY2053L. GENERAL PHYSICS II LAB (1)
Laboratory experiences designed to accompany the topics under study in PHY2054. One two hour period per week. Special fee charged. Placement Department or Pre or Co-requisite: PHY2054L
Pre or Co-requisite: PHY2054L
Lec Hrs=0 Lab Hrs=3 Clsn Hrs=0 Oth Hrs=0 Fees=0.00

PHY2054L. GENERAL PHYSICS II LAB (1)
Laboratory experiences designed to accompany the topics under study in PHY2054. One two hour period per week. Special fee charged. Placement Department or Pre or Co-requisite: PHY2053L
Pre or Co-requisite: PHY2053L
Lec Hrs=0 Lab Hrs=3 Clsn Hrs=0 Oth Hrs=0 Fees=0.00

PHY2063. GENERAL PHYSICS I (5)

PHY2063L. GENERAL PHYSICS I LAB (1)

PHY2063L. GENERAL PHYSICS I LAB (1)

PHY2063L. GENERAL PHYSICS I LAB (1)

PHY2063L. GENERAL PHYSICS I LAB (1)

PHY2063L. GENERAL PHYSICS I LAB (1)
This course provides an overview of the training and duties of the legal assistant/paralegal. Also included is a discussion of legal terminology, research techniques, and pertinent litigation documents. Program Manager's approval or Pre or Corequisite: ENC1101

Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=0 Fees=0.00

PLA1180 DOMESTIC RELATIONS

This course surveys domestic relations, including marriage, divorce, dissolution of marriage, separation agreements, custody, legitimacy, adoption, name changes, support, court research, and computer-assisted methodologies. An in-depth examination of the law of marriage and family laws is emphasized. Program Manager's approval or Pre or Corequisite: ENC1101 PLA1005 Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=0 Fees=0.00

PLA1841 IMMIGRATION LAW

This course provides an in-depth study of Immigration Law. Topics covered include a historical overview of immigration law, types of immigration law practice, agencies involved with immigration law, the Immigration and Nationality Act, and the administrative system covering the practice of immigration law. Program Manager's approval or Pre or Corequisite: ENC1101 Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=0 Fees=0.00

PLA2114 LEGAL WRITING AND DRAFTING

This course concentrates on developing skills in the grammar, the format of legal documents, Emphasis is placed on drafting interoffice memos. Other documents drafted include legal correspondence, briefs, persuasive documents, and contracts. Program Manager's approval or Pre or Corequisite: ENC1101 Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=0 Fees=0.00

PLA2466 DEBTROR/CReditor RELATIONS

This course provides an in-depth study of debtors/creditors, topics covered included: collection of debts through court processes, post-judgment collection practices, bankruptcy law, landlord/tenant law, debt collection of debts based upon negotiable instruments, federal consumer collection acts, and foreclosure actions. Program Manager's approval or Pre or Corequisite: ENC1101 PLA1005 PLA1104 Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=0 Fees=0.00

PLA2672C PARALEGAL OFFICE SYSTEMS

This course covers a wide range of knowledge, skills, and procedures in order to enable the paralegal to function effectively in a legal office. Technology, management skills, and general Program Manager's approval or Pre or Corequisite: ENC1101 PLA1005 PLA1104 Lec Hrs=24 Lab Hrs=24 Clg Hrs=0 Oth Hrs=0 Fees=20.00

PLA2610 PROCEDURES FOR REAL ESTATE TITLE CLOSING

This course surveys the basic concepts of Real Property Law. The student studies how to handle a real estate transaction from the drafting of a contract to its closing. The nature of property, the consequences of its possession, and the mechanics of the title examination are also studied. Also included in a discussion of legal terminology, research techniques, and pertinent litigation documents. Program Manager's approval or Pre or Corequisite: ENC1101 PLA1005 Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=0 Fees=0.00

PLA2930 SELECTED TOPICS IN PARALEGAL STUDIES

This course will explore a selection of topics and trends of special interest in the legal field. Program Manager's approval or Pre or Corequisite: ENC1101 PLA1005 PLA1104 Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=0 Fees=0.00

PLA2940 LEGAL ASSISTING PRACTICUM

This course is designed to apply the knowledge and skills developed in the required courses through practical work experience. The student will perform legal work for 144 hours under the supervision of the Program Manager's approval or Pre or Corequisite: ENC1101 PLA1005 PLA1104 Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=0 Fees=0.00

POR1120 BEGINNING PORTUGUESE I

Fundamentals of speaking, understanding, reading and writing. Classroom practice and exercises supplemented by language laboratory sessions designed to develop confidence and proficiency. Student expected to continue with POR1121. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=15.00

POR1121 BEGINNING PORTUGUESE II

Continuation of POR1120. Further development of the basic skills. Selected readings. Program Preor: POR1120 Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=15.00

POS2041 NATIONAL GOVERNMENT

This course provides a systematic introduction to the political system of the United States of America through the study of principles, policy outcomes, and responsible institutions involved in the formation and operation of the American Government. The course will be organized along four broad fronts: (1) the political foundation; (2) political parties and elections; (3) political institutions (e.g., president, Congress, etc.); and (4) policy (e.g., domestic and foreign). Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PS2112 STATE & LOCAL GOV'T

This course introduces the principles and institutions of American state and local government, with some emphasis on Florida government. It delves into the structure, functions, and decision-making processes of the 50 states and the more than 85,000 localities (governments) within those states. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PS20801 THE AMERICAN CONSTITUTION

A study of the basic elements of the Constitution as they impact society and the individual. Emphasis is placed upon the documents themself, as well as, pragmatic applications. Course is taught from perspectives which are primarily historical and cultural. Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=0 Fees=0.00

PS2101 PHYSICAL SCIENCES SURVEY

This course is a survey course outlining topics in chemistry, astronomy, geology, meteorology and physics. The course is intended for the non major student. The student will compose writing projects and analyze problems using analysis in physics. Prerequisite: MAT0028 Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=0 Fees=0.00

PS2112L PHYSICAL SCIENCES LABORATORY

This is a laboratory which allows students to able to collect and analyze data in a variety of experiments covering topics covered in its companion course PSC2112L. Students will create exam reports using analysis in algebra. Pre or Corequisite: PSC2111 Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=29.00

PS2018 DIRECTED INDEPENDENT RESEARCH

Students (individually or in a group) will conduct research projects or certain aspects of research projects under the supervision of the instructor. This course is intended to help students acquire skills in applying research principles and practices in original rigorous data collection and reporting in physical sciences. Hours may vary. Permission of instructor is required. Lec Hrs=0 Lab Hrs=0 Clg Hrs=0 Oth Hrs=48 Fees=0.00

PSY2120 GENERAL PSYCHOLOGY

General Psychology reviews the scientific principles related to human behavior and mental processes. Topics include the scientific method, neuroscience, learning, memory, thinking, emotions, motivation, and health. Life span development, personality, psychological disorders, and therapies are covered. Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=0 Fees=0.00

PSY2120L GENERAL PSYCHOLOGY LAB

This laboratory course parallels and supplements the instruction given in General Psychology (PSY2120). Laboratory procedures are designed to support the variety of experimental and behavioral activities that demonstrate the scientific basis of psychology. Lec Hrs=0 Lab Hrs=32 Clg Hrs=0 Oth Hrs=0 Fees=0.00

PSY2045 ADVANCED GENERAL PSYCHOLOGY

The rationale, methods, and application of the scientific analysis of behavior. Emphasis is placed on the use of behavioral laws and behavioral analyses are found and used in the modification of behavior. Prerequisite: PSY2120 Lec Hrs=48 Lab Hrs=0 Clg Hrs=0 Oth Hrs=0 Fees=0.00
RAT1002 INTRODUCTION TO RADIATION THERAPY CLINICAL
A course designed to provide knowledge and skills required for the application of radiation therapy procedures. This course will lead to certification. The course will be an introduction to the applications of radiation therapy. The course will cover the fundamentals of radiation therapy, including the basics of radiation physics, radiation biology, and patient care. The course will also provide an introduction to the role of the radiation therapist in the healthcare setting. The course will cover the basic principles of radiation therapy and the importance of patient safety. The course will also cover the ethical and legal considerations related to radiation therapy.

RAT1004 CLINICAL EDUCATION I
Familiarization with the equipment utilized in the treatment of patients undergoing radiation therapy. The course will cover the basics of radiation therapy, including the fundamentals of radiation physics, radiation biology, and patient care. The course will also cover the ethical and legal considerations related to radiation therapy.

RAT2041 RADIATION ONCOLOGY ETHICS
This course is designed to discuss ethical thinking in regard to healthcare. The course will introduce students to the ethical and legal considerations related to radiation therapy. The course will cover the fundamentals of radiation physics, radiation biology, and patient care. The course will also cover the ethical and legal considerations related to radiation therapy.

RAT2101 PRINCIPLES OF RADIATION THERAPY I
Content is designed to provide an overview of cancer and the specialty of radiation therapy. The course will cover the basics of radiation therapy, including the fundamentals of radiation physics, radiation biology, and patient care. The course will also cover the ethical and legal considerations related to radiation therapy.

RAT2102 PRINCIPLES OF RADIATION THERAPY II
A continuation of the Fundamentals of Radiation Therapy applications in simulation and patient treatment. The course will cover the fundamentals of radiation therapy, including the basics of radiation physics, radiation biology, and patient care. The course will also cover the ethical and legal considerations related to radiation therapy.

RAT2241 RADIATION ONCOLOGY SECTIONAL ANATOMY
A course designed to present sectional anatomy and its importance to radiation therapists and dosimetrist. The course will cover the fundamentals of radiation physics, radiation biology, and patient care. The course will also cover the ethical and legal considerations related to radiation therapy.

RAT2243 RADIATION ONCOLOGY PHYSICS
The fundamentals of radiation physics including concepts, measurements, dosimetry, and tissue damage. The course will cover the fundamentals of radiation physics, radiation biology, and patient care. The course will also cover the ethical and legal considerations related to radiation therapy.

RAT2245 NUCLEAR MEDICINE PHYSICS
Advanced topics in medical imaging with an emphasis on computed tomography, magnetic resonance imaging, and nuclear medicine. The course will cover the fundamentals of radiation physics, radiation biology, and patient care. The course will also cover the ethical and legal considerations related to radiation therapy.

CARE LAW
Content is designed to provide an overview of cancer and the specialty of radiation therapy. The course will cover the fundamentals of radiation physics, radiation biology, and patient care. The course will also cover the ethical and legal considerations related to radiation therapy.
also demonstrate their didactic knowledge, terminal competency skills. The student will continue in radiation therapy departments. The role of the various radiation therapy team members in comprehensive instruction will be discussed as well as the legal and regulatory implications for maintaining appropriate quality care. Pre or Corequisite: RAT2814

RAT2814 CLINIC EDUCATION II

Patient treatment competency assignments continue in radiation therapy departments. The student’s responsibilities increase as more complex competencies in patient treatment are mastered, and additional competencies are performed in simulation and the dosimetry area are performed. Student is also introduced into a variety of patient treatment settings. Pre or Corequisite: RAT1804

Lec Hrs= 48 Lab Hrs= 0 Clin Hrs= 0 Oth Hrs= 0 Fees= 0.00

RAT2824 CLINIC EDUCATION III

Advanced clinical education stressing practical application of didactic instructions under the direct supervision of a medical physician or dosimetrist. Continuation of advanced patient treatment competency and individual learning plan under the direct supervision of a registered radiation therapist, continuation of simulation procedures and quality assurance testing.

Preerequisite: RAT2021 RAT2023 RAT2617 Corequisite: RAT2241 RAT2618 Lec Hrs= 48 Lab Hrs= 0 Clin Hrs= 384 Oth Hrs= 0 Fees= 26.35

RAT2834 CLINIC EDUCATION IV

The most advanced clinical education as evidenced by the level of competency demonstrated by terminal competency skills. The student will also demonstrate the ability to apply clinical reasoning, technical understanding of treatment planning and basic calculations required of an entry level radiation therapist. Completion of this course will ensure that the student is competent upon graduation to assume all the responsibilities expected of an entry level Registered Radiation Therapy Technologist. Pre or Corequisite: RAT2619

Lec Hrs= 48 Lab Hrs= 0 Clin Hrs= 0 Oth Hrs= 0 Fees= 33.53

RAT2905 INDEPENDENT STUDY IN RADIATION THERAPY

A direct study course in Radiation Therapy. This course is available only for majors who wish to investigate in radiation therapy, radioactive, or simulated radiation, how they are utilized to treat cancer patients and their specific energies and decay schemes. Corequisite: RAT2834

Lec Hrs= 48 Lab Hrs= 0 Clin Hrs= 0 Oth Hrs= 0 Fees= 0.00

REAIM05 COLLEGE READING STRATEGIES

This course provides understanding of the principles of scientifically based reading research as the foundation of comprehensive instruction that synthesizes and scaffolds each of the major components of the reading process to assist students in mastering this process. This course will address effective research-based instruction methodology to prevent reading difficulties and promote acceleration of reading progress for struggling readers, including students with disabilities, and students from diverse populations. Guided field experience provides opportunities to complete the course in their own educational settings with the experience of observation and interaction with k-12 students. Pre Corequisite: EDF1005 EDF2085 EMD2040 TL3880

Lec Hrs= 48 Lab Hrs= 16 Clin Hrs= 0 Oth Hrs= 0 Fees= 9.50

REAIM25 READING IN THE CONTENT AREA

This course is designed to prepare pre-service teachers to acquire knowledge, skills, and techniques necessary to guide middle and secondary level students to be successful, self-directed learners by addressing issues in reading instruction as an integral part of comprehensive reading content. This course will provide comprehensive strategies for teaching reading across the curriculum with emphasis on content areas such as science, mathematics, and social sciences. Emphasis will be given to the importance of language and cognition as well as scientifically based reading research as the basis of comprehensive instruction.

Pre requisite: ED3105 ED3542 Pre or Corequisite: EGE2410

Lec Hrs= 48 Lab Hrs= 0 Clin Hrs= 0 Oth Hrs= 10 Fees= 9.50

REAIM619 LIAM ASSESSMENT AND DIFFERENTIATED INSTRUCTION IN ENGLISH LANGUAGE ARTS

This course provides an understanding of the role of assessment in guiding instruction and decision making for reading progress of struggling readers. It also provides extensive knowledge of differentiated instruction with appropriate scientifically based strategies and materials for students from differing backgrounds and diverse learners.

Pre requisite: EDF2280 RED3542 RED3552 Pre or Corequisite: EGE483 TL3881

Lec Hrs= 48 Lab Hrs= 0 Clin Hrs= 0 Oth Hrs= 15 Fees= 5.90

REEL104 FLORIDA REAL ESTATE COMMISSION I

The Real Estate Commission Course I. It provides an introduction to the legal and theoretical aspects of real property, its economic value, and the legal aspects of real estate law affecting the real estate transaction. Successful completion qualifies a candidate to apply for the State of Florida Salesperson’s License Examination. Pre Corequisite: Lec Hrs= 64 Lab Hrs= 0 Clin Hrs= 0 Oth Hrs= 0 Fees= 0.00

REEL1210 OLD TESTAMENT HISTORY

Reading the English Bible in various documents, and examining selected source material, with emphasis on its cultural importance today. Pre requisite: College-level reading skills. Pre Corequisite: Lec Hrs= 48 Lab Hrs= 0 Clin Hrs= 0 Oth Hrs= 0 Fees= 0.00

REEL1240 NEW TESTAMENT HISTORY

A study of the social, historical, cultural, and religious environment of the New Testament as well as the dynamics of the beginnings and spread of the Christian Faith during the First Century A.D. and into the Second Century A.D.

Pre Corequisite: Lec Hrs= 48 Lab Hrs= 0 Clin Hrs= 0 Oth Hrs= 0 Fees= 0.00

REEL2000 INTRODUCTION TO THE STUDY OF RELIGION

An introduction to the study of religion as an academic discipline. The focus of this course is religion, not religions; an attempt is made to acquaint students with problems and issues related to the experience of religious phenomena. Upon successful completion of this course, students should be able to recognize, describe, and appreciate the complex phenomena of religion. A student must earn a grade of C- or higher to meet the requirements of the Gordon rule.

Pre Corequisite: Lec Hrs= 48 Lab Hrs= 0 Clin Hrs= 0 Oth Hrs= 0 Fees= 0.00

REEL3500 WORLD RELIGIONS

This course is a descriptive examination of the world’s most significant religions. College-level reading skills are recommended. Pre Corequisite: Lec Hrs= 48 Lab Hrs= 0 Clin Hrs= 0 Oth Hrs= 0 Fees= 0.00

REEL3525 SPECIAL TOPICS: RELIGION

This course centers around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester. Topics will be determined by the REEL2000 course title published in the course schedule for each term that the course is offered. Special Topics credit hours are not automatically transferable. Transfer credit is the prerogative of the receiving institution.

Pre Corequisite: Lec Hrs= 48 Lab Hrs= 0 Clin Hrs= 0 Oth Hrs= 0 Fees= 0.00

College Catalog BrowardCollege www.broward.edu
RET1026  RESPIRATORY THERAPY EQUIPMENT
This course reviews all of the equipment normally used for respiratory therapy with the exception of mechanical ventilators. Emphasis is placed on oxygen, humidity, and aerosol therapy, airway management and airway clearance techniques.
Prerequisite: BSC2085 CHM1012 MAT1013
Pre or Corequisite: RET1026L
Lec Hrs: 48 Lab Hrs: 0 Cln Hrs: 0 Oth Hrs: 0 Fees: 0.00

RET1026L  RESPIRATORY THERAPY EQUIPMENT LAB
This course allows the student to work with and master the equipment necessary to utilize respiratory therapy equipment. Emphasis is on oxygen, humidity and aerosol therapy, and airway management.
Prerequisite: BSC2085 CHM1012 MAT1013
Pre or Corequisite: RET1026
Lec Hrs: 0 Lab Hrs: 0 Cln Hrs: 0 Oth Hrs: 0 Fees: 39.00

RET2626  ADVANCED RESPIRATORY EQUIPMENT
This course introduces students to more advanced monitoring techniques in the areas of ventilation and oxygenation for the adult, pediatric and neonatal patient.
Prerequisite: RET2835L RET2418
Pre or Corequisite: RET2656L RET2714
Lec Hrs: 0 Lab Hrs: 0 Cln Hrs: 0 Oth Hrs: 0 Fees: 0.00

RET2626L  ADVANCED RESPIRATORY EQUIPMENT LAB
This course provides an in depth discussion of several disease processes of the lung as well as other issues concerning the respiratory intensive care patient. This course covers the formulation of the physician to student relationship by providing physician lectures and clinical rounds with physicians.
Prerequisite: RET2835L RET2418
Pre or Corequisite: RET2656L RET2714 RET2854L RET2954
Lec Hrs: 0 Lab Hrs: 0 Cln Hrs: 0 Oth Hrs: 0 Fees: 39.00

RET2836C  MANAGEMENT OF THE INTENSIVE CARE PATIENT
This course is designed to assist the student in successfully making the transition from the role of a student to that of a competent member of the health care team. Objectives include advanced cardiac life support certification and becoming a member of the national and state organization for respiratory care. Emphasis is placed on preparation and application for the national credential examinations and for the Florida state license.
Prerequisite: RET2414 RET2414L RET2714 RET2854L RET2954
Pre or Corequisite: RET2856C RET2855L
Lec Hrs: 0 Lab Hrs: 0 Cln Hrs: 0 Oth Hrs: 0 Fees: 0.00

RET2854L  SELECTED TOPICS IN RESPIRATORY CARE
This course will present information on recent changes in technology and therapeutic modalities and the interrelatedness of these changes in Respiratory Care. The student will participate in literature review activities to enable them to remain knowledgeable of ongoing changes in the profession after they become Respiratory Care practitioners.
Prerequisite: RET1111 RET2414L RET2414L RET2854L RET2954
Pre or Corequisite: RET1111 RET2414 RET2414L
Lec Hrs: 16 Lab Hrs: 0 Cln Hrs: 0 Oth Hrs: 0 Fees: 0.00

RET1100  INTRODUCTION TO RADIOLOGIC TECHNOLOGY
The organization and operation of a radiology department; radiologic topics include: x-ray equipment operation, historical aspects of radiology, departmental organizational structure, safety, radiation protection, imaging media and receptors, image processing techniques, basic exposure factors, and accreditation and professional development.
Pre or Corequisite: RET1111 RET1153 RET1403L RET1804
Lec Hrs: 0 Lab Hrs: 0 Cln Hrs: 0 Oth Hrs: 0 Fees: 0.00

RET1111  PATIENT CARE, LAW, & ETHICS
An introduction to the principles and practices of patient care during radiographic examinations. Topics include medical ethics, legal issues, patient and family communication, patient care & safety; infection control, surgical asepsis, vital signs & oxygen administration, electrophysiological monitoring, transport of the critically ill patient, trauma & mobile considerations, the care of pediatric & geriatric patients, patient care during urologic & GI exams, & care of patients needing alternative treatments.
Pre or Corequisite: RTE1804 RTE1805 RTE2804
Lec Hrs: 0 Lab Hrs: 0 Cln Hrs: 0 Oth Hrs: 0 Fees: 0.00

RET1418  IMAGING I
A study of the production and properties of X-radiation, primary exposure factors as they relate to radiographic technique, the properties and characteristics of imaging media and the primary factors of radiographic quality.
Prerequisite: RTE1000 RTE1111 RTE1503 RTE1503L RTE1804
Pre or Corequisite: RTE1418L RTE1512L RTE1512 RTE1814L
Lec Hrs: 16 Lab Hrs: 0 Cln Hrs: 0 Oth Hrs: 0 Fees: 38.00

RET1418L  IMAGING I LAB
Practicum in Radiographic theory taught in RET1418. Students perform laboratory experiments to demonstrate concepts taught in lecture.
Pre or Corequisite: RTE1111 RTE1503 RTE1503L RTE1804
Pre or Corequisite: RTE1418 RTE1418L RTE1512L RTE1512
Lec Hrs: 32 Lab Hrs: 32 Cln Hrs: 0 Oth Hrs: 0 Fees: 21.00
RTE1503 RADIOGRAPHIC PROCEDURES I
A study of radiographic procedures of the chest, abdomen, gastrointestinal tract, and biliary and urinary systems of the patient. Students will study the anatomy, the radiographic positions/projections, along with the trauma, medical and pediatric considerations relating to each area covered.
Pre or Corequisite: RTE1000 RTE1111 RTE1503L RTE1894 Lab Hrs=48 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

RTE1503L RADIOGRAPHIC PROCEDURES I LAB
(1)
RTE1503 RADIOGRAPHIC PROCEDURES I LAB
(2)
RTE1513 RADIOGRAPHIC PROCEDURES II
A study of radiographic procedures of the upper limb, humerus & shoulder girdle, lower limb, femur & pelvic girdle, bony thorax, and related trauma, mobile, and pediatric examinations.
Students will study the radiographic procedures of the upper limb, humerus & shoulder girdle, lower limb, femur & pelvic girdle, bony thorax, and related trauma, mobile, and pediatric examinations.
Pre or Corequisite: RTE1000 RTE1111 RTE1503L RTE1156L Lab Hrs=96 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

RTE1156L RADIOGRAPHIC PROCEDURES II LAB
(1)
RTE1156L RADIOGRAPHIC PROCEDURES II LAB
(2)
RTE1253 RADIOGRAPHIC PROCEDURES III
A study of radiographic procedures of the cervical spine, thoracic spine, lumbar spine, sacrum & coccyx, and the emergency room, i.e., other ancillary imaging areas. Students will perform radiographic exams of the upper limb, humerus & shoulder girdle, lower limb, femur & pelvic girdle, bony thorax, and related trauma, mobile, and pediatric examinations.
Pre or Corequisite: RTE1418 RTE1418L RTE1513 RTE1615 Lab Hrs=384 Lab Hrs=0 Cls Hrs=384 Oth Hrs=0 Fees=0.00

RTE1615 RADIOGRAPHIC PHYSICS
Introduction to the fundamentals of physics involved in the operation of radiographic equipment and units, radiographic technology, examination and evaluation, quality control, and the radiation exposure. Students will study the anatomy, the radiographic positions/projections, along with the trauma, mobile and pediatric considerations relating to each area covered.
Pre or Corequisite: RTE1253 RTE1253L RTE21824 Lab Hrs=32 Lab Hrs=0 Cls Hrs=0 Oth Hrs=0 Fees=0.00

RTE21824 RADIOGRAPHIC SEMINAR
(1)
RTE21824 RADIOGRAPHIC SEMINAR
(2)
RTVE2844 CLINICAL EDUCATION V
Provides the student with continuing clinical experience for practical application of concepts & skills taught in the program. Clinical rotations include the main department, portables, the emergency room, the operating room, critical care, acute care, psych, other ancillary imaging areas, & operating rooms. Students will perform, assist with, & observe MRI scans, mammogram, nuclear medicine, X-ray, & other diagnostic imaging procedures previously learned.
Prerequisites: RTE2385 RTE2427 RTE2467 RTE2533 RTE2854 Pre or Co-requisite: RTE2150 RTE2151 RTE2625 RTE2782 Lab Hrs: 0 Lab Hrs: 0 Clin Hrs:384 Oth Hrs:0 Fees:27.33
RTVE2854 CLINICAL EDUCATION VI
Provides the student with terminal clinical experience for practical application of concepts & skills taught in the program. Clinical rotations include the main department, portables, the emergency room, the operating room, critical care, acute care, psych, other ancillary imaging areas, & operating rooms. Students will perform, assist with, & observe MRI scans, mammogram, nuclear medicine, X-ray, & other diagnostic imaging procedures previously learned.
Prerequisites: RTE2130 RTE2131L RTE2623 RTE2782 RTE2844 Pre or Co-requisite: RTE2868 Lab Hrs: 0 Lab Hrs: 0 Clin Hrs:144 Oth Hrs:0 Fees:27.33
RTV2890 INTRODUCTION TO RADIO AND TELEVISION
An introduction to the broadcast media through which the student gains an understanding of the historical, technical, legal, and critical aspects of radio and television media.
Lab Hrs: 48 Lab Hrs: 0 Clin Hrs:0 Oth Hrs:0 Fees:15.00
RTV2102 BROADCAST WRITING
Designed to give the student an opportunity to learn the style of presentation for different types of media broadcast scripts. The course will emphasize: writing, editing, knowledge of radio and television copy techniques and forms of commercial copy, as well as learning the special rules and techniques involved in the presentation of materials over the air. Instructor's approval.
Prerequisites: ENC1102 Lab Hrs: 48 Lab Hrs: 0 Clin Hrs:0 Oth Hrs:0 Fees:0.00
RTV2241 TELEVISION PRODUCTION I
In this course the student will acquire understanding of the theory and practice of television program production in preparing the student for success in the media business. There is a requirement of two two-hour laboratory production periods per week. Completion of RTV2000 recommended prior to taking this course.
Lab Hrs: 48 Lab Hrs: 0 Clin Hrs:0 Oth Hrs:0 Fees:0.00
RTV2949 CO-OP WORK EXP
A course designed to provide training in a student field of study through work experience. Students are graduates in good standing of participation in learning acquired as reported by students and employer. Prerequisite: Co-operational department approval. The student will be assigned specific course prefixes related to their academic major prior to registration. Students must contact the Co-operative Education Office to obtain registration approval.
Lab Hrs:0 Lab Hrs:0 Clin Hrs:0 Oth Hrs:144 Fees:0.00
RUS1201 BEGINNING RUSSIAN I
Fundamentals of imitation, understanding, reading, and writing. Classroom practice and exercises supplemented by language laboratory. Instructor’s approval or pre-requisite: RUS1120.
Lab Hrs:0 Lab Hrs:0 Clin Hrs:150 Oth Hrs:0 Fees:27.33
RUS1211 BEGINNING RUSSIAN II
Continuation of RUS1120. Further development of the basic skills. Selected readings.
Prerequisite: RUS1120 Lab Hrs: 0 Clin Hrs:0 Oth Hrs:0 Fees:15.00
SCE330 INTEGRATIVE TEACHING METHODS IN MIDDLE GRADES
This inquiry-based course involves active participation and reflection of the learning process to promote the growth and development of equitable middle school science constructs. The pre-service educator will apply knowledge previously learned in individual content science courses and communicate them by designing an integrated and lab-based curriculum unit. Students will be required to spend 2 non-credit hours per week for a mandatory 20 hours as part of a field experience component. Course completers will teach integrated science concepts using inquiry processes as the basis for teaching and learning Science in middle schools.
Lab Hrs: 0 Lab Hrs: 0 Clin Hrs:0 Oth Hrs:0 Fees:9.50
SCE4280 PHYSICAL SCIENCE FOR MIDDLE SCHOOL TEACHERS
This course is a study of the fundamental concepts of physical science as part of teaching special education students. This course focuses on three elements: content knowledge, inquiry and other teaching strategies, and use of multimedia resources in teaching and learning about physical science. This course incorporates methods and strategies to teach science, including: scientific reasoning, prediction, and abstract and critical thinking, and helps teachers integrate science content into their instruction. Through the readings, videos, discussions, assignments, and other interactive experiences in the laboratory, students will master the material necessary for teaching physical science to middle school students.
Lab Hrs: 48 Lab Hrs: 0 Clin Hrs:0 Oth Hrs:15 Fees:9.50
SCE4290 METHODS AND STRATEGIES OF TEACHING BIOLOGY
This course is designed to introduce teachers to the topics that have been proven to be effective for teaching biology. This course will include topics in appropriate instructional techniques and selection of appropriate resources for diverse class appropriately.
Lab Hrs: 0 Lab Hrs: 0 Clin Hrs:0 Oth Hrs:0 Fees:9.50
SCE4946 STUDENT TEACHING IN SCIENCE
This course is designed to provide students with multiple opportunities to practice the classroom skills of the 12 Florida Educator Professional Standards including effective planning, instruction, management and assessment techniques in a real-world middle and high school classroom setting under the supervision of a certified teacher.
Lab Hrs: 12 Lab Hrs: 0 Clin Hrs:560 Oth Hrs:0 Fees:9.50
SLS1001 STRATEGIES FOR SUCCESS
This course is designed to provide students with strategies for success in college. The course will cover topics that will help the student succeed in college and in life. Topics covered include: test-taking, time management, study skills, critical thinking, and understanding of diversity and career issues that face college students.
Lab Hrs: 16 Lab Hrs: 0 Clin Hrs:0 Oth Hrs:0 Fees:0.00
SLS101 FOUNDATION COURSE
This course is designed to provide students with strategies for success in college. The course will cover topics that will help the student succeed in college and in life. Topics covered include: test-taking, time management, study skills, critical thinking, and understanding of diversity and career issues that face college students.
Lab Hrs: 16 Lab Hrs: 0 Clin Hrs:0 Oth Hrs:0 Fees:0.00
SLS1121 LEADERSHIP
The purpose of this course is to provide effective leadership skills to student leaders to help them develop an ethical, value grounded leadership style for future educational, organizational and community leadership roles.
Lab Hrs: 48 Lab Hrs: 0 Clin Hrs:0 Oth Hrs:0 Fees:0.00
SLS127 TEAM SELF-MANAGEMENT AND CAREER EXPLORATION
This course provides an introduction to Team Self-Management and how it applies to team self-management and its application in the workplace. Teamself-management involves understanding one's purpose and intentions and one's behaviors, and develops the self-management skills to successfully attain one's goals. This course provides an introduction to career exploration and planning.
Lab Hrs: 48 Lab Hrs: 0 Clin Hrs:0 Oth Hrs:0 Fees:0.00
SLS130 CAREER PLANNING WORKSHOP
This course is only for the career decision making process. The student will learn the skills necessary for career decision making as it applies to choosing a career. The course will provide students with career decision making skills (including values, interests, abilities, goals, strengths, etc.).
Lab Hrs: 22 Lab Hrs: 0 Clin Hrs:0 Oth Hrs:0 Fees:0.00
SLS1001 COLLEGE SUCCESS SKILLS
This course is designed to provide students with multiple opportunities to practice the classroom skills of the 12 Florida Educator Professional Standards including effective planning, instruction, management and assessment techniques in a real-world middle and high school classroom setting under the supervision of a certified teacher.
Lab Hrs: 12 Lab Hrs: 0 Clin Hrs:560 Oth Hrs:0 Fees:9.50
Prerequisite: SON1111 and the studies to make a diagnostically abdominal area stressing deviations from the norm An in-depth presentation of sonographs of the abdominal area and its recognition on

SON1110 PRINCIPLES AND PROTOCOLS OF SONOGRAPHIC IMAGING (3)
An introduction to the basic approaches to sonographic scanning and scanning protocols for the abdomen and pelvis. Prerequisite: Program Admission
Pre or Corequisite: SON1170
Lec Hrs: 48 Lab Hrs: 0 Clin Hrs: 0 Oth Hrs: 0 Fees: 0.00

SON1111 ABDOMINAL SONOGRAPHY I (2)
An introduction to the cross-sectional anatomy of the female reproductive system with and without an existing pregnancy. The sonographic recognition of the normal throughout all terms of pregnancy is presented.
Prequisite: SON1170 Corequisite: SON1111
Lec Hrs:32 Lab Hrs:0 Clin Hrs:0 Oth Hrs:0 Fees:0.00

SON1122 SONOGRAPHIC OB/GYN II (2)
The detection of anomalies, pathology, deviation from normal and the planes which must be sonographically imaged for accurate diagnosis is stressed.
Prequisite: SON1121 Corequisite: SON1112
Lec Hrs:32 Lab Hrs:0 Clin Hrs:0 Oth Hrs:0 Fees:0.00

SON1144 SMALL PARTS SONOGRAPHY (2)
A general introduction to the areas of cardiac, eye, thyroid, prostate, scrotum, breast and other superficial structures.
Prequisite: SON1122 Corequisite: SON1824
Lec Hrs:32 Lab Hrs:0 Clin Hrs:0 Oth Hrs:0 Fees:0.00

SON1780 SONOGRAPHY OF THE CIRCULATORY SYSTEM (2)
An introduction to the hemodynamics of the circulatory systems and the sonographic imaging and Doppler assessment of the cardiac and vascular structures.
Prequisite: Program Admission Por or Corequisite: SON1100L
Lec Hrs: 32 Lab Hrs: 0 Clin Hrs: 0 Oth Hrs: 0 Fees: 0.00

SON1211 MEDICAL SONOGRAPHIC PHYSICS I (3)
A study of the principles of diagnostic ultrasound fundamental properties of ultrasonic physics, stressing tissue interactions, and interfaces. The study of characteristics, methods, intensity, and power considerations are introduced along with system resolution considerations.
Prequisite: SON1100 Corequisite: SON1111
Lec Hrs:48 Lab Hrs:0 Clin Hrs:0 Oth Hrs:0 Fees:0.00

SON1212 MEDICAL SONOGRAPHIC PHYSICS II (3)
A continuation of the study of the properties of diagnostic ultrasound stressing the operation of diagnostic equipment, the display systems, biological and quality assurance methods. Current developments in ultrasound are reviewed, discussed, and evaluated.
Prequisite: SON1100 Corequisite: SON1112
Lec Hrs:48 Lab Hrs:0 Clin Hrs:0 Oth Hrs:0 Fees:0.00

SON1214 PRACTICAL ASPECTS OF SONOGRAPHY I (2)
A study of the principles of diagnostic ultrasound and practical aspects of scanning techniques, film critique, film identification and patient care and handling as related to sonographic examination.
Prequisite: SON1121 Corequisite: SON1111
Lec Hrs:32 Lab Hrs:0 Clin Hrs:0 Oth Hrs:0 Fees:17.00

SON215 PRACTICAL ASPECTS OF SONOGRAPHY II (2)
Offering more advanced principles of diagnostic ultrasound, adding knowledge of pathological processes. Further presenting the practical aspects of scanning techniques, film critique, film identification and patient care and handling as related to sonographic examination. Stressing the correlation of all pathological anatomy, congenital and acquired pathological conditions, as well as sonographic scanning techniques.
Prequisite: SON1111 Corequisite: SON2854
Lec Hrs:32 Lab Hrs:0 Clin Hrs:0 Oth Hrs:0 Fees:17.00

SON2188 CLINIC A (2)
Clinical education requiring application of the knowledge learned. Profusion and personal interaction are stressed along with technical abilities. As the student progresses he or she will be performing examinations with less and less supervision.
Prequisite: SON1100 Corequisite: SON1212
Lec Hrs:0 Lab Hrs:0 Clin Hrs:256 Oth Hrs:0 Fees:57.33

SON2384 CLINIC I C (2)
A continuation of the learning by doing process where more responsibility in the form of decision making regarding anatomical areas and resultant imaging is assumed by the student being supervised.
24 Hr. clinical per week. Term II.
Prequisite: SON1804 Corequisite: SON1121
Lec Hrs:0 Lab Hrs:0 Clin Hrs:256 Oth Hrs:0 Fees:57.33

SON2384 CLINIC II C (2)
This clinical course is designed to provide students the opportunity to make judgmental decisions regarding clinical aspects, to interact in a professional manner with those with whom he/she comes in contact with, and to generally progress to the point where, after successful testing, he/she may be accepted as a competent sonographer for general sonographic exams.
Prequisite: SON1804 Corequisite: SON1121
Lec Hrs:0 Lab Hrs:0 Clin Hrs:384 Oth Hrs:0 Fees:57.33

SON2013L FUNDAMENTALS OF SONOGRAPHY LAB II (1)
This course incorporates ultrasound scanning techniques using ultrasound equipment to practice the principles and protocols to the performance of adequate diagnostic sonographic imaging and Doppler procedures in a supervised setting.
Prequisite: SON1030L SON1111 SON1121 Corequisite: SON1112
Lec Hrs:4 Lab Hrs:0 Clin Hrs:0 Oth Hrs:0 Fees:0.00
and cardiovascular examination techniques.

All skills gained, emphasizing echocardiography regarding the technical aspects, and to generally practice the principles and precepts in the performance of basic cardiac diagnostic sono graphic imaging and Doppler procedures in a supervised setting.

Prerequisite: SON1141

LeC Hrs=0  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=0.00

SON2401 ECHOCARDIOGRAPHY I (3)

An in-depth presentation of the intricacies of diagnostic ultrasound as it applies to the heart and the chest stressing its capabilities and its limitations.

Corequisite: SON2844

LeC Hrs=0  Lab Hrs=48  Clin Hrs=0  Oth Hrs=0  Fees=0.00

SON2401L ECHOCARDIOGRAPHY I LAB (1)

Laboratory sessions for Echocardiography I Lab (SON 2401L) are designed to provide opportunities for the students to practice advanced skills of sonographic scanning techniques of normal and the cardiac structures including real-time and Doppler scanning techniques. Performance of special tests will be practiced on a computerized simulator. This course incorporates basic ultrasound scanning techniques using identical heart models. Students will practice the principles and precepts in the performance of basic Cardiac diagnostic sonographic imaging and Doppler procedures in a supervised setting.

Prerequisite: SON2401

LeC Hrs=0  Lab Hrs=48  Clin Hrs=0  Oth Hrs=0  Fees=0.00

SON2402 SOCIAL PSYCHOLOGY (3)

This course provides scientifically based concepts used in understanding social phenomena and their practical application. Identification of the social and psychological variables that give human beings unique behavior and character.

LeC Hrs=48  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=0.00

SOW2020 INTRODUCTION TO SOCIAL WELFARE (3)

A beginning course in the behavioral science based field of social work. It aims at introducing student to the historical, political policy and methodological systems that have interacted to produce the institutions of welfare services and the profession of social work.

LeC Hrs=48  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=0.00

SOW2045 SOCIAL SERVICE FIELD EXPERIENCE I (3)

A survey and orientation to organization, and supervision of social services. Contact with and participation in social service agencies enables the students to understand the complexity of community resources and the role of social workers. Participation in an agency or a supervised review of an agency in which a person is employed.

LeC Hrs=48  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=0.00

CPC1024 INTRODUCTION TO SPEECH COMMUNICATIONS (3)

This course is designed to provide students with the fundamentals of speech communication including speaking and listening. Topics include: interpersonal; speaking, verbal, nonverbal, small group communication, and public speaking in various cultural contexts.

LeC Hrs=48  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=0.00

SPP1311 ARGUMENTATION AND DEBATE (3)

The study techniques completion of this course, should achieve proficiency in the principles of argumentation including analysis, evidence, inference, refutation as they pertain to the debate situation in democratic society.

LeC Hrs=48  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=0.00

SPP1308 INTRODUCTION TO PUBLIC SPEAKING (3)

This course is designed to provide students with fundamentals of public speaking and practical experience for speaking in public, business, and professional situations. Topics include audience analysis, speech anxiety, critical listening, and

LeC Hrs=48  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=0.00

Pre or Corequisites: SON2400

LeC Hrs=0  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=0.00

SPP2300 INTRODUCTION TO INTERPERSONAL COMMUNICATION (3)

Upon completion of this course, the student should demonstrate an understanding of the basic concepts of interpersonal communication with emphasis on perception, self-awareness, empathy, communication, small group communication, and conflict resolution.

LeC Hrs=48  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=0.00

SPN1100 ELEMENTARY SPANISH CONVERSATION (3)

A custom made course for those residents in the community who require a cursory knowledge of Spanish to help them communicate with Spanish speaking people. One hour language laboratory weekly. Special fee charged.

LeC Hrs=48  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=15.00

SPN2200 BEGINNING SPANISH I (4)

Prerequisite: SPN1121. Continuation of SPN 2201 course would allow. Special Fee Charged.

LeC Hrs=64  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=15.00

SPN2220 INTERMEDIATE SPANISH CONVERSATION (3)

Course may be taken in conjunction with SPN2220 or SPN2221 but cannot substitute either one of those courses as a college parallel requirement. The purpose of this course is to permit that student who wishes to increase his comprehension and speaking facility in Spanish to be in a class where the emphasis is totally on the oral approach and where a greater variety of topics will be discussed at a faster pace than the required SPN 2200 course would allow. Special Fee Charged.

Prerequisite: SPN 1121
LeC Hrs=48  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=15.00

SPN2540 BEGINNING SPANISH FOR SPANISH SPEAKERS I (4)

This course is designed for Spanish Speakers who have an oral command of the language but whose knowledge of written and/or formal Spanish is incomplete. Class is conducted in Spanish with emphasis on improving pronunciation, spelling, grammar, vocabulary, reading, writing, and oral skills. Emphasis will be placed on the correction of typical errors created by the influence of the English language. Every unit will cover important cultural aspects of the Hispanic world.

Prerequisite: To be a heritage or native speaker of Spanish. Special Fee charged.

LeC Hrs=48  Lab Hrs=16  Clin Hrs=0  Oth Hrs=0  Fees=15.00

SPN3555 STUDY ABROAD: ADVANCED COMPOSITION AND CONVERSATION (3)

For students wishing to attain greater proficiency in spoken and written Spanish. Conversation and composition based on socio-cultural aspects and current issues in Latin America and Spain.

Prerequisite: To be a heritage or native speaker of Spanish. Special Fee charged.

LeC Hrs=48  Lab Hrs=16  Clin Hrs=0  Oth Hrs=0  Fees=0.00

SPN2220 INTERMEDIATE SPANISH II (3)

Continuation of SPN121. Polishing of skills in speaking, listening comprehension, reading, writing, and Spanish culture. Classroom practice and exercises supplemented by laboratory and/or multi-media activities designed to develop and enhance communicative competence and cultural sensitivity. Topics considered include human nature, love, affiliation, aggression, image management, psychological development, sex role identification and conversation. A more in depth review of the Spanish speaking region.

LeC Hrs=48  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=15.00

SPN2955 STUDY ABROAD: ADVANCED COMPOSITION AND CONVERSATION (3)

For students wishing to attain greater proficiency in spoken and written Spanish. Continuation of composition and practice in the study of Spanish with subsequent travel to a Spanish speaking region.

LeC Hrs=15  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=0.00

Pre or Corequisites: SON2400

LeC Hrs=0  Lab Hrs=0  Clin Hrs=0  Oth Hrs=0  Fees=0.00
Upon successful completion of this course, students will be able to analyze and create a dramatic character on stage in a theatrical production of the college. For each production, students will learn to understand the genre of the play and adopt appropriate acting styles and techniques. They will learn how to uncover clues in the script which will reveal character objectives and tactics. Additionally, students will create characters through analysis, improvisation, and the development of psychophysical actions grounded in the given circumstances of the play. This information will guide the student actor to make distinct choices regarding the physical and vocal qualities of each character being portrayed.

Lec Hrs=0  Lab Hrs=32  Clin Hrs=0  Oth Hrs=0  Fees=.00

TPP191L PERFORMING ARTS I

Upon successful completion of this course, students will be able to analyze and create a dramatic character on stage in a theatrical production of the college. For each production, students will learn to understand the genre of the play and adopt appropriate acting styles and techniques. They will learn how to uncover clues in the script which will reveal character objectives and tactics. Additionally, students will create characters through analysis, improvisation, and the development of psychophysical actions grounded in the given circumstances of the play. This information will guide the student actor to make distinct choices regarding the physical and vocal qualities of each character being portrayed.

Lec Hrs=0  Lab Hrs=64  Clin Hrs=0  Oth Hrs=0  Fees=.00

TPP211L ACTING II

Building on the foundations established in Acting I, Acting II focuses on a close examination of the dramatic texture and character development as a basis for character development and scene work. Students will analyze and perform two scenes during the term. Adoration and acquisitiveness is also gained with the monologue by analyzing and performing two longer speeches.

Prerequisite: TPP2110
Lec Hrs=.32  Lab Hrs=.32  Clin Hrs=.00  Oth Hrs=.00  Fees=.00

TPP2110 REHEARSAL AND PERFORMANCE I

Participation in the audition, rehearsal, and performance process of a theatrical stage production.

Corequisite: TPP219L
Lec Hrs=.00  Lab Hrs=.96  Clin Hrs=.00  Oth Hrs=.00  Fees=.00

TPP219L PERFORMING ARTS II

Upon successful completion of this course, students will be able to analyze and create a dramatic character on stage in a theatrical production of the college. For each production, students will learn to understand the genre of the play and adopt appropriate acting styles and techniques. They will learn how to uncover clues in the script which will reveal character objectives and tactics. Additionally, students will create characters through analysis, improvisation, and the development of psychophysical actions grounded in the given circumstances of the play. This information will guide the student actor to make distinct choices regarding the physical and vocal qualities of each character being portrayed.

Lec Hrs=.00  Lab Hrs=.00  Clin Hrs=.00  Oth Hrs=.00  Fees=.00

TPP2260 PERFORMANCE IN FILM

Introduction to the various approaches to acting on film and television. A number of genres will be examined including film acting, commercial acting, and various styles of television acting. Students will also study the evolving styles of film acting throughout the history of the medium.

Prerequisite: TPP2110
Lec Hrs=.32  Lab Hrs=.32  Clin Hrs=.00  Oth Hrs=.00  Fees=.00

TPP2300C DIRECTING

An academic study and practical application of the art and circumstances of directing. This information will guide the student director to make distinct choices regarding the physical and vocal qualities of each character being portrayed.

Lec Hrs=.00  Lab Hrs=.00  Clin Hrs=.00  Oth Hrs=.00  Fees=.00

TPP2500C MOVEMENT FOR THE ACTOR

An academic study and practical application of body movement technique for the actor. Students will extend and expand their knowledge of vocal and physical effort training and free themselves from any personal movement habits.

Lec Hrs=.32  Lab Hrs=.32  Clin Hrs=.00  Oth Hrs=.00  Fees=.00

TPP2551 STAGE COMBAT

Armed application, combat techniques for the stage. Students will be provided the special demands of acting for the stage. Following a thorough introduction to the International Phonetic Alphabet and the development of the students' own voice, the special demands of acting and the International Phonetic Alphabet. Students will learn the theory and principles of good voice and articulation of general American Speech. The theories and principles of the course will be applied in written assignments, oral performances before the class, and through vocal exercises done in class, the learning resources language laboratory, and at home.

Lec Hrs=.32  Lab Hrs=.32  Clin Hrs=.00  Oth Hrs=.00  Fees=.00

TPP270C INTRO TO VOICE

An academic study and practical application of the efficient and effective use of the speaking voice, psychoanalyzing the special demands of acting for the stage. Following a thorough introduction to the International Phonetic Alphabet and the development of the students' own voice, the special demands of acting and the International Phonetic Alphabet. Students will learn the theory and principles of good voice and articulation of general American Speech. The theories and principles of the course will be applied in written assignments, oral performances before the class, and through vocal exercises done in class, the learning resources language laboratory, and at home.

Lec Hrs=.32  Lab Hrs=.32  Clin Hrs=.00  Oth Hrs=.00  Fees=.00

TPP270C VOICE AND ARTICULATION I

Application of techniques studied in Intro to Voice, with emphasis on the study of vocal posture and speech applications of the International Phonetic Alphabet. Students will continue to improve articulation and pronunciation, as they learn to apply differentiation of sounds and adjustment of vocal posture to achieve a neutral American Dialect. Learned skills will then be utilized to master their popular American dialects. The theories and principles of the course will be applied in written assignments, oral performances before the class, and through vocal exercises done in class, the learning resources laboratory, and at home.

Lec Hrs=.32  Lab Hrs=.32  Clin Hrs=.00  Oth Hrs=.00  Fees=.00

TRAI1010 INTRODUCTION TO TRANSPORTATION & LOGISTICS

This course deals with the role of logistics in the economy and the organization. Topics explored are customer service, logistics information systems, inventory management, material management and supply chain management. The objective is to explore the full scope of the transportation plant and its services as a necessary preparation to efficient use of the transportation system.

Lec Hrs=.48  Lab Hrs=.00  Clin Hrs=.00  Oth Hrs=.00  Fees=.00

TRAI154 SUPPLY CHAIN MANAGEMENT

This course provides an introduction to the management of the supply chain in logistics. The course will focus on what employees and managers must do to ensure an effective supply chain exists in their organization. Students will learn about SCM functions, warehousing, purchasing and inventory, e-commerce, information flow and customer service.

Lec Hrs=.48  Lab Hrs=.00  Clin Hrs=.00  Oth Hrs=.00  Fees=.00

TRAI166 OPERATIONS MANAGEMENT FOR TRANSPORTATION

This course covers the skills necessary for a supervisory role in logistics. It includes rules and regulations in managing different types of operations and general managerial functions and skills. Topics include the design and management of production, warehousing, purchasing and inventory, e-commerce, global trade, order processing, physical distribution, transportation, import/export compliance, and other supply chain management issues. Specific requirements will vary based on topic assignments.

Lec Hrs=.32  Lab Hrs=.00  Clin Hrs=.00  Oth Hrs=.00  Fees=.00

TRA2131 PURCHASING FOR LOGISTICS MANAGERS

This course presents current and emerging issues in supply chain management. In format and topic will vary, but will include a full day or a half day seminar conducted by one or more industry experts who will address specific supply chain management topics such as customer service, logistics information systems, inventory management, material management, warehousing, purchasing and inventory, e-commerce, global trade, order processing, physical distribution, transportation, import/export compliance, and other supply chain management issues. Specific requirements will vary based on topic assignments.

Lec Hrs=.48  Lab Hrs=.00  Clin Hrs=.00  Oth Hrs=.00  Fees=.00
**TRA4155 APPLIED PRODUCTION/OPERATIONS MANAGEMENT** (5)

This course provides management and analytical concepts/tools for the management of operations and the decision-making process within the scope of the supply chain. Recently, operations strategy has provided companies with a competitive advantage in supply chains and transportation. Decision-making regarding operational issues is one of the most common tasks within organizations. This course will enable the student to perform the quantitative analysis necessary and understand the management issues in order to make good operational decisions within the supply chain.

Lect Hrs: 48  Lab Hrs: 0  Clin Hrs: 0  Ot h Hrs: 0  Fees: 0.00

**TRA4156 GLOBAL OPERATIONS MANAGEMENT** (5)

This course focuses on global operations capabilities as a strategic enabler of increased profits and effectiveness for goods- producing and service-providing organizations. In this age of fast global commerce and intense competition, business must pay close attention to how goods and services are sourced, designed, created, and delivered to customers.

Lect Hrs: 48  Lab Hrs: 0  Clin Hrs: 0  Ot h Hrs: 0  Fees: 0.00

**TRA4256 DIRECTED INDEPENDENT RESEARCH IN SUPPLY** (4)

This course is intended to help students acquire skills in applying research principles and obtaining practice in rigorous data collection and reporting.

Lect Hrs: 0  Lab Hrs: 48  Clin Hrs: 0  Ot h Hrs: 0  Fees: 0.00

**TRA4250 SUPPLY CHAIN MANAGEMENT OPTION/INTERNERSHIP** (2)

This course is a practical application in a clinical setting of knowledge acquired in the classroom.

Lect Hrs: 0  Lab Hrs: 48  Clin Hrs: 0  Ot h Hrs: 0  Fees: 0.00

**TSL3080 ESOL ISSUES AND STRATEGIES I** (5)

This course is designed to introduce the underlying issues, theories and practices of the teaching of ESOL (English for Speakers of Other Languages). The goal of this course is to develop the foundations of knowledge necessary to prepare educational professionals to understand the concepts upon which second language acquisition and instruction are based. Course emphasizes the Florida/LULAC Consent Degree and language/literacy development. 10 school-based hours.

Pre or Corequisite: EDF1005 EDF2985 EME2640 RED5342
Lect Hrs: 48  Lab Hrs: 0  Clin Hrs: 0  Ot h Hrs: 0  Fees: 9.50

**TSL4081 ESOL ISSUES AND STRATEGIES II** (5)

This course is designed to build on the foundation course in TESOL for students in integrated-service teacher education programs. The goal of this course is to link the theory and practice for effective teaching of ESOL students. The course will primarily be on methods, curriculum and assessment of ESOL students in the areas of language development, and content areas. Effective strategies regarding reading instruction for ELL students will be emphasized.

Prequisite: EDF2200 EDF4450 EOG4410 EDP4804 EEX3011 TSL3080
Lect Hrs: 48  Lab Hrs: 0  Clin Hrs: 0  Ot h Hrs: 0  Fees: 0.00

**ZOO4713 COMPARATIVE VERTEBRATE MORPHOLOGY AND PHYSIOLOGY** (1)

The course is the accompanying laboratory course to PCB4273. The 3 hours of laboratory per week complements the lecture topics which include evolutionary relationships among the vertebrate groups, and a comparison of major physiological systems: nerve, muscle, respiration, circulation, osmoregulation, temperature regulation and energy metabolism.

Pre or Corequisite: ZOO4713
Lect Hrs: 0  Lab Hrs: 48  Clin Hrs: 0  Ot h Hrs: 0  Fees: 42.00

**ZOO4710 GENERAL ZOOLOGY** (3)

Basic course pertaining to the development, anatomy, physiology, genetics, ecology and evolutionary relationships of the animal kingdom. Upon successful completion of this course, the students will be able to comprehend the basic zoological principles and processes of phylogeny, physiology, genetics and ecology.

Pre or Corequisite: ZOO2010L
Lect Hrs: 48  Lab Hrs: 0  Clin Hrs: 0  Ot h Hrs: 0  Fees: 0.00

**ZOO2010L GENERAL ZOOLOGY LABORATORY** (1)

Upon successful completion of this course, the students should be able to demonstrate a knowledge of the animal kingdom through prescribed activities that focus on the morphology, anatomy, and physiology of selected representative specimens. Laboratory experiments and activities to accompany ZOO2010. Dissection of animals is a component of this course.

Pre or Corequisite: ZOO2010
Lect Hrs: 0  Lab Hrs: 32  Clin Hrs: 0  Ot h Hrs: 0  Fees: 81.00

**ZOO4713 COMPARATIVE VERTEBRATE ANATOMY & PHYSIOLOGY** (5)

This course is designed to familiarize the student with morphological and anatomical features of vertebrates from a comparative evolutionary perspective. The course starts with an introduction to the comparative method, including evolutionary concepts such as homology and homoplasy. The underlying biology of tissue-organ systems and evolutionary perspectives on the origins, maintenance, and diversification of form among the vertebrates will be discussed. The remainder of the course will be an overview of major organ systems, interspersed with discussion of particular vertebrate phenomena that highlight the development, function and/or evolution of these organ systems.

Pre or Corequisite: ZOO2012L
Lect Hrs: 48  Lab Hrs: 0  Clin Hrs: 0  Ot h Hrs: 0  Fees: 0.00
ADSCRIBERS AND FACULTY

Directory of Campus Administrators..................................................397
Administrators and Faculty .................................................................398

North campus

Campus President
Avie Proctor, B.S., M.S.T., Ed.D.

North Campus Deans
James Evans, B.P.A., L.L.M.
Dean, Student Affairs
Gregory J. Ferenczak, B.S., M.S., Ed. D.
Dean, Allied Health Programs
Edward M. Henn, B.A., M.B.A., Ed.D.
Dean, BAS, Business Administration and Engineering Technology and Computer Science; Ed.D.
Jeffrey Nasso, M.A.
Dean, Academic Resources
George A. Stalliard, D.S., M.S., B.S., A.B.
Dean, Business Affairs
Jerry Schwartz, B.A., M.A.
Dean, Partnership Center-

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Campus Technology Support
Gregg Brickman, M.S.N., R.N.
Nursing
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Science / Wellness
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Physical Therapist Assistant / Health Information Management / Massage Therapy
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Student Affairs
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Respiratory Care and Vision Care
Greta Jackson, A.A., B.B.A, M.S.,
Student Affairs
Pam Roll, B.A., M.A.
Reading / ESL / SLS
Alan J. Lebovitz, A.S., B.S., M.S.
Mathematics
Karen Lacce, M.S., B.A.
English
Jamiha L. Rolle, M.A.
Communications / Fine Arts
Jasmine Stawicki, A.S., B.A.
Diagnostic Medical Sonography / Nuclear Medicine
Esmeralda Stoney, A.A., B.A., M.S.
Academic Resource A. Hugh Adams

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Campus President
Mercedes A. Quiroga, M.A., Ph.D.

Central Campus Deans
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Dean South, Academic Affairs
Donna Henderson, B.S., M.S.
Dean, Partnership Centers (Pines / Weston / Miramar)
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Education and Experience</th>
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<tbody>
<tr>
<td>Martinez, Ellice A.</td>
<td>Assistant Professor, English</td>
<td>M.A., Educational Community and Technology and B.F.A., Film and Television, New York University</td>
</tr>
<tr>
<td>Lopate, Dyanne</td>
<td>Assistant Professor, English</td>
<td>M.A., Educational Community and Technology and EDL, Miami-Dade College</td>
</tr>
<tr>
<td>Lopate, Felix M.</td>
<td>Assistant Professor, Architecture</td>
<td>M.S., Construction Management, Florida International University; B.O.A. Architecture, University of Miami</td>
</tr>
<tr>
<td>Lopate, Amy D.</td>
<td>Assistant Professor, Mathematics</td>
<td>M.S., Mathematical Sciences, Nova Southeastern University; B.S., Mathematics, University of Miami</td>
</tr>
<tr>
<td>Loshak, Horacio D.</td>
<td>Student Affairs Specialist/Counselor</td>
<td>M.S., Melbourne, Florida International University; A.S., Otopraxy, Miami Dade College; A.A., Education, University of Miami</td>
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<tr>
<td>Loveless, Lamar</td>
<td>Assistant Director, M.M. Arts Management</td>
<td>Management, George Mason University</td>
</tr>
<tr>
<td>Lucas, Matthew J.</td>
<td>Assistant Professor, Mathematics</td>
<td>M.S., University North Texas; B.A., Mathematics, Saint Edwards University</td>
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<tr>
<td>Lamley, Robert J.</td>
<td>Assistant Professor, Aviation Operations</td>
<td>M.S., Aeronautical Science and B.S., Professional Aeronautics, Embry-Riddle Aeronautical University; A.S., Vocational Education, Pikes Peak Community College</td>
</tr>
<tr>
<td>Lunny, Jennifer L.</td>
<td>Assistant Professor, Nursing</td>
<td>M.S.N., Nursing, Nova Southeastern University; B.S.N., Nursing, Vanderbilt University; Adv Cardiac Life Support, Basic Life Support; Registered Nurse</td>
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<tr>
<td>Lascher, Stephen M.</td>
<td>Assistant Professor, Speech</td>
<td>M.A., Linguistics, University of Michigan</td>
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<tr>
<td>Macias, Jesse</td>
<td>Associate Dean, English</td>
<td>Ed.D., Higher Education, Florida International University and Advisement; M.A., Psychology, Chapman University; B.A., English, University of Illinois</td>
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<tr>
<td>Miron, Marilou J.</td>
<td>Assistant Professor, English</td>
<td>Ph.D., Elementary Education, Florida International University; M.A., English, Florida Atlantic University; B.A., British Literature, University of the West Indies</td>
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<tr>
<td>Marshall, Michelle, A.</td>
<td>Assistant Professor, Office Systems Technology</td>
<td>M.Ed, Business Education, Bloomsburg University; M.A., Business Administration, Bloomsburg University</td>
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<tr>
<td>Martin, Deborah N.</td>
<td>Assistant Professor, Computer Science</td>
<td>M.S., Information Systems, Florida International University; M.A., English, Florida State University</td>
</tr>
<tr>
<td>Martin, James</td>
<td>Assistant Professor, English</td>
<td>M.Ed., secondary Education/English, Boston College; B.A. Humanities, Harvard University</td>
</tr>
<tr>
<td>Martinez, Ellice A.</td>
<td>Assistant Professor, Mathematics</td>
<td>M.S., Mathematics, University of Miami; B.A., Mathematics, Florida Atlantic University; A.A., Liberal Arts, Broward College</td>
</tr>
<tr>
<td>Matthews, Angie L.</td>
<td>Assistant Professor, Mathematics</td>
<td>M.S., Mathematics, University of Miami; B.A., Mathematics, Florida Atlantic University; A.A., Liberal Arts, Broward College</td>
</tr>
<tr>
<td>McCawley, Frederick J.</td>
<td>Assistant Professor, Graphic Design Technology</td>
<td>B.A., Photography, Barry University; B.A., Political Science, University of Hawaii; B.A., Political Science, Florida International University</td>
</tr>
<tr>
<td>McDermott, Laura A.</td>
<td>Assistant Professor, English</td>
<td>M.F.A Creative Writing, Florida International University; M.A., English, Bloomsburg University</td>
</tr>
<tr>
<td>Shockley, John A.</td>
<td>Associate Professor, Computer Science</td>
<td>M.S., Management Information Systems, Nova Southeastern University; B.S., Computer Science, University of Miami</td>
</tr>
<tr>
<td>Mullin, Robert Jr.</td>
<td>Assistant Professor, Physics</td>
<td>M.S., Florida International University; B.S., Mathematics, University of South Florida; B.A., Physics, Florida International University</td>
</tr>
<tr>
<td>Raffel, Robert J.</td>
<td>Assistant Professor, Electrical Engineering</td>
<td>M.S., Electrical Engineering, Virginia Polytechnic Institute and State University; B.S., Electrical Engineering, University of Florida</td>
</tr>
<tr>
<td>Murphy, Richard Jr.</td>
<td>Assistant Professor, Nuclear Medicine</td>
<td>Certifiable, Radiology Technology</td>
</tr>
<tr>
<td>Moss, Barry W.</td>
<td>Senior Professor, Social Science, History</td>
<td>Ph.D., Political Science, CUNY; B.A., Liberal Arts, University of Michigan; B.S., Political Science, Bloomsburg University</td>
</tr>
<tr>
<td>Moura, David D.</td>
<td>Associate Vice President, International Education Administration</td>
<td>Ph.D., Interdisciplinary Studies and Higher Education, Florida International University; B.A., History Education, Clearwater Christian College</td>
</tr>
<tr>
<td>Mount, Paul L.</td>
<td>Assistant Professor, Business Administration</td>
<td>J.D., Law, Howard University; M.S., Leadership, Nova Southeastern University; B.A., Political Science, University of North Carolina</td>
</tr>
<tr>
<td>Moscowitz, John E.</td>
<td>Professor, English</td>
<td>B.A. Education, Florida International University; M.Ed. and B.A. English, Allentown University</td>
</tr>
<tr>
<td>Morrison, Karen</td>
<td>Associate Professor, Nuclear Medicine</td>
<td>Certificate, Radiology Technology</td>
</tr>
<tr>
<td>Murrell, Barry W.</td>
<td>Senior Professor, Social Science, History</td>
<td>Ph.D., Political Science, CUNY; B.A., Liberal Arts, University of Michigan; B.S., Political Science, Bloomsburg University</td>
</tr>
<tr>
<td>Moschovitis, James O.</td>
<td>Assistant Professor, Physical Education</td>
<td>M.S., Physical Education, University of South Florida; A.S., Exercise Science, University of Miami</td>
</tr>
<tr>
<td>Multani, Neil M.</td>
<td>Assistant Professor, Physical Science</td>
<td>M.S. and B.S., Physics, Florida International University; B.S., Mathematics, University of South Florida; B.A., Mathematics, University of Miami</td>
</tr>
<tr>
<td>Muller, Alice</td>
<td>Dean of the UC/Library</td>
<td>Ph.D., Florida State University; B.A., English, University of Miami; A.A., General Studies, Miami Dade College</td>
</tr>
<tr>
<td>Murray, Shirley J.</td>
<td>Assistant Professor, English</td>
<td>M.A., English, City University of New York; B.A., English, McGill University</td>
</tr>
<tr>
<td>McGraw, Richard H.</td>
<td>Senior Professor, Behavioral Science</td>
<td>Ph.D. and M.S., Psychology, Georgia; B.A., Psychology, Eckerd College</td>
</tr>
<tr>
<td>Mordace, Robert M.</td>
<td>Assistant Professor, Physical Science</td>
<td>Ph.D., Geological Oceanography, M.S. and B.A., Florida, Geological Oceanography, University of South Florida; B.A., General Studies, University of Miami</td>
</tr>
<tr>
<td>Mott, Jeffrey P.</td>
<td>Dean, Academic Resources</td>
<td>M.A., English, East Carolina University; A.A. General Studies, Pascocola Junior College</td>
</tr>
<tr>
<td>Nemeth, Joyce</td>
<td>Associate Dean, Mathematics</td>
<td>M.S., Mathematics, University of Miami; B.A., Liberal Arts, University of Miami; B.A., Mathematics Education, CUNY; Brooklyn College</td>
</tr>
<tr>
<td>Newman, Michael A.</td>
<td>Assistant Professor, English</td>
<td>Language, Florida International University; B.A., English, University of North Florida</td>
</tr>
<tr>
<td>Neves, Sonia</td>
<td>Associate Dean, Social / Behavioral Science</td>
<td>B.S., Psychological Clinical, Caribbean Center for Advanced Studies; B.S., Psychological Clinical, Florida International University; M.S., Psychological Clinical, Caribbean Center for Advanced Studies; B.S., Biology, University of Puerto Rico Central; B.A., Business Administration, University of Miami</td>
</tr>
<tr>
<td>Nightengale, Barbara</td>
<td>Senior Professor, English</td>
<td>Ed.D., Community College Teaching, Florida International University; M.A., English, Florida Atlantic University; B.S., Health Services Admin, Florida International University; A.A., Health, Delgado Community College</td>
</tr>
<tr>
<td>Novoa, San Andres</td>
<td>Assistant Professor, ESL</td>
<td>M.A., English, Florida International University; B.A., Spanish, Florida International University</td>
</tr>
<tr>
<td>Norton, John R.</td>
<td>Instructor, Automotive Technology</td>
<td>M.S., Professional Management, Nova Southeastern University; B.S., General Studies, South Florida Community College</td>
</tr>
<tr>
<td>O'Brien, Thomas J.</td>
<td>Associate Professor, Biological Sciences</td>
<td>Ph.D., Cell and Molecular Biology, Nova Southeastern University; A.S., Biology, Miami Dade College</td>
</tr>
<tr>
<td>Osipina, Juan</td>
<td>Assistant Professor, BSED Education</td>
<td>Ed.D., Education Leadership and M.S. and B.S. Biomedical Sciences, Florida Atlantic University</td>
</tr>
<tr>
<td>Ouendeno, Michel</td>
<td>Assistant Dean, Electrical Engineering</td>
<td>Ph.D., M.S. Electrical Engineering, Florida Institute of Technology; B.S., Electrical Engineering, University of Illinois</td>
</tr>
<tr>
<td>Pachoud, Michel</td>
<td>Assistant Professor, Electronics Engineering Technology</td>
<td>Ph.D. and M.S., Electrical Engineering, Florida Institute of Technology</td>
</tr>
<tr>
<td>Parker, Alan M.</td>
<td>Assistant Professor, History</td>
<td>Ph.D., Political Science, CUNY; B.A., English, University of Miami</td>
</tr>
<tr>
<td>Parker, Karen S.</td>
<td>Associate Dean, English</td>
<td>M.A., Literature, Florida State University; B.A., English and Creative Writing, University of Illinois Central; M.A., English, Education, University of Illinois Central</td>
</tr>
<tr>
<td>Perdomo, David C.</td>
<td>Assistant Professor, Physical Science</td>
<td>B.S., Analytical Chemistry, Iowa State University; A.A., General Studies, Pascocola Junior College</td>
</tr>
<tr>
<td>Perreira, Sunita</td>
<td>Assistant Professor, Technology Support</td>
<td>M.S., Education Technology, Nova Southeastern University; B.A., English, Florida International University</td>
</tr>
<tr>
<td>Perry, Erick M.</td>
<td>Assistant Professor, Office Systems Technology</td>
<td>M.A., Business Administration, Nova Southeastern University; B.A., Business Administration, Florida International University</td>
</tr>
<tr>
<td>Perrone, Elizabeth M.</td>
<td>Associate Vice President, Budget</td>
<td>M.B.A., Administration, Florida Atlantic University; B.A., Business Administration, Florida International University</td>
</tr>
<tr>
<td>Petre, George</td>
<td>Professor, Nursing</td>
<td>M.S.N., RN and B.S.N., Nursing, RN, Florida International University; Advanced Registered Nurse Practitioner, Florida International University</td>
</tr>
<tr>
<td>Peters, David A.</td>
<td>Associate Dean, Technology Support</td>
<td>M.S., Computer Information Systems and B.S., Management, University of Phoenix; A.A., General Studies, Broward College; A+ Certified Technician; Network Certified; A+ Certified Technician</td>
</tr>
<tr>
<td>Peters, David A.</td>
<td>Director / Technical Services, FCCCN Consortium</td>
<td>Atlantic Technical College, Georgia; A.A.A., Business Administration, Georgia State University; B.A., Business Administration, Florida Atlantic University</td>
</tr>
<tr>
<td>Petriello, Anthony T.</td>
<td>Associate Dean, Automotive &amp; Marine</td>
<td>B.A., Philosophy, Long Island University; B.S., Business Administration, Florida Atlantic University</td>
</tr>
<tr>
<td>Phillips, Stephen J.</td>
<td>Assistant Professor, Behavioral Science</td>
<td>Ph.D. and M.S., Psychology, University of Florida; B.A., Psychology, Rollins College</td>
</tr>
<tr>
<td>Pickering, Joseph J.</td>
<td>Campus Director, Student Life</td>
<td>M.Ed., Student Personnel in Higher Education and B.A., History, University of Florida</td>
</tr>
<tr>
<td>Ploki, Nick</td>
<td>Assistant Professor, English</td>
<td>M.F.A., Creative Writing, Florida International University; B.A., English, University of Pennsylvania</td>
</tr>
<tr>
<td>Polack, Mary T.</td>
<td>Assistant Professor, Academic Affairs</td>
<td>Ph.D., English, University of Wisconsin-Madison; A.A. Business Administration, Edgewood College</td>
</tr>
<tr>
<td>Polisher, Marina I.</td>
<td>Assistant Professor, Mathematics</td>
<td>M.A., Mathematics, University of Illinois Central; A.A. Mathematics, University of Wisconsin-Madison</td>
</tr>
<tr>
<td>Oldfather, Susan J.</td>
<td>Professor / Political Sciences</td>
<td>M.S., History, M.A. and B.A., History, Florida Atlantic University; B.S., History, University of South Florida</td>
</tr>
<tr>
<td>Oliveira, Pedro M.</td>
<td>Assistant Professor, History / Political Sciences</td>
<td>Ph.D., Philosophy, D.M., (br) U of Rio De Janeiro and Medical, (br) U of Rio De Janeiro; M.S., Public Policy, Florida International University</td>
</tr>
<tr>
<td>O'Briain, Thomas W.</td>
<td>Senior Vice President, Administrative Services</td>
<td>M.B.A., Business Administration, University of South Florida; B.S., General Studies, Florida Atlantic University; B.A., Business Administration, Nova Southeastern University</td>
</tr>
<tr>
<td>Ondrusz-Angarmon Elizabeth</td>
<td>Instructor, Physical Therapy Assistant</td>
<td>B.S., Physical Therapy, Florida International University</td>
</tr>
</tbody>
</table>
Broward College
Campus Locations and Registration Hours

1. Willis Holcombe Center
   225 East Las Olas Blvd.
   Fort Lauderdale, FL 33301
   Registration: Bldg. 33, Room 109
   Bookstore (FAU Bldg.): 954-762-5204
   Registration Hours:
   Monday-Thursday 8 a.m.-6 p.m.
   Friday 8 a.m.-4 p.m.

2. A. Hugh Adams Central Campus
   3501 S.W. Davie Road, Davie, FL 33314
   Registration: Bldg. 19, Room 104
   Bookstore (Bldg. 19): 954-201-6830
   Registration Hours:
   Monday-Thursday 8 a.m.-7 p.m.
   Friday 8 a.m.-4 p.m.

3. North Campus
   1000 Coconut Creek Blvd.
   Coconut Creek, FL 33066
   Registration: Bldg. 46, 2nd floor
   Bookstore (Bldg. 46): 954-201-2225
   Registration Hours:
   Monday-Thursday 8 a.m.-7 p.m.
   Friday 8 a.m.-4 p.m.

4. Judson A. Samuels South Campus
   7200 Pines Blvd., Pembroke Pines, FL 33024
   Registration: Bldg. 68, Room 113
   Bookstore (Bldg. 67): 954-201-8805
   Registration Hours:
   Monday-Thursday 8 a.m.-7 p.m.
   Friday 8 a.m.-4 p.m.

5. Pines Center
   16957 Sheridan Street
   Pembroke Pines, FL 33331
   Registration Hours:
   Monday & Wednesday 8 a.m.-7 p.m.
   Tuesday & Thursday 8 a.m.-5 p.m.
   Friday 8 a.m.-4 p.m.

6. Tigertail Lake Recreational Center
   580 Gulfstream Way, Dania Beach, FL 33304

7. AutoNation Center for Excellence in Automotive Science
   and Technology/Marine Center of Excellence
   7451 Riviera Blvd., Miramar, FL 33023

8. Weston Center
   4205 Bonaventure Blvd., Weston, FL 33332

9. Miramar Town Center
   2050 Civic Center Place, Miramar, FL 33025

10. Coconut Creek Administrative Center
    6400 N.W. 6th Way, Fort Lauderdale, FL 33301

11. Coral Springs Academic Center
    3500 North University Drive, Coral Springs, FL 33065

www.broward.edu
North Campus

1000 COCONUT CREEK BOULEVARD, COCONUT CREEK, FL 33066

SMOKING AREAS  CALL BOX LOCATIONS  CAMPUS SAFETY OFFICE: Bldg. 46/Room 101
ALL ELEVATOR PHONES ACT AS CALL BOXES

Bldg. 41  Health Sciences
Bldg. 42  Physical Plant
Bldg. 46  Student Services (Admissions/Cashier/Disability Services/Financial Aid/Registration/Testing)
Bldg. 47  English/Communication/Reading/ESL/SLS
Bldg. 48  Engineering Technology/Computer Science
Bldg. 49  Campus Administration/Classrooms
Bldg. 50  Fine Arts – Visual & Performing/Business Administration/Bachelor of Applied Science Programs
Bldg. 51  Business Administration/Bachelor of Applied Science Programs
Bldg. 52  Classrooms/Math Lab
Bldg. 56  Social/Behavioral Science
Bldg. 57  Mathematics/Science
Bldg. 60  Omni Auditorium/Wellness
Bldg. 62  Broward College-North Regional Library/Academic Learning Resources
Bldg. 63  Little Learners College (Child Care Center)
Bldg. JA-1  Junior Achievement World Huizenga Center at Broward College