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www.hccf.edu

Hillsborough Community College reserves the right to make changes in the regulations, offerings, requirements and any provision announced in this catalog at any time as circumstances require.
President
Dr. Ken Atwater

Board of Trustees 2020-2021
Hillsborough Community College is governed by a Board of Trustees appointed by the Governor.
Mr. Arthur “Chip” Diehl III – Vice Chair
Mr. Randall Reid – Chair
Ms. Dipawali “Dip” Shah
Ms. Betty Viamontes
Mr. Bruce Wills – Student

Vision
To promote a thriving community in which students achieve their full potential by providing access to an affordable, innovative, high quality, and lifelong education.

Mission
To transform lives by providing open access to an exceptional teaching and learning environment that inspires students to contribute to the local community and global society.

Values
As one college, we dedicate ourselves to:
• Student Success
  Helping our students achieve their full potential by providing exceptional teaching and support services.
• Service
  Supporting the economy and cultural vitality of Tampa Bay through dynamic programming and partnership.
• Inclusion
  Building a diverse environment where all backgrounds, beliefs and experiences are welcomed.
• Sustainability
  Embracing our role as a responsible steward of the social, environmental and economic resources that have been entrusted to us.
• Integrity
  Operating with transparency, accountability and the highest level of professionalism.
• Innovation
  Fostering a culture that welcomes the exploration of new ideas and creative endeavors.

Equal Access/Equal Opportunity and Educational Equity
Hillsborough Community College is an equal access/equal opportunity employer that makes employment and education-related decisions without regard to race, color, gender, religion, national origin, age, disability, sexual orientation, marital status or any other bias that is or may be prohibited by law. In addition, the college does not discriminate in employment practices or in the admission and treatment of students. HCC is committed to equitable treatment of all students and employees and to a learning and working environment free of discrimination and harassment for current as well as future students and employees. The college provides equal educational opportunities to qualified individuals with disabilities and complies with, as well as, supports the Americans with Disabilities Act.

HCC’s equity officer ensures compliance with federal and state laws prohibiting discrimination and sexual harassment.

Employees and students who believe they have been a victim of discrimination or sexual harassment should contact:
Cheryl Gonzalez, Chief Diversity Officer
GWS District Administration Center
39 Columbia Drive
Tampa, FL 33606
Telephone: 253-7043
Email: cgonzalez159@hccfl.edu
Accreditation

Hillsborough Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate degrees, certificates and diplomas. Contact the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Hillsborough Community College.

Hillsborough Community College also meets the requirements of the following:

• The Florida Department of Education
• The Joint Review Committee on Education in conjunction with the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association
• Committee on Accreditation of the National Association of Schools of Music (NASM). The Florida Department of Education will accept credit earned at HCC to satisfy various teacher certification requirements. In addition:
  • The State of Florida approves HCC for veteran’s training.
  • The State of Florida recognizes HCC as a training center for Emergency Medical Services.
• The Florida Department of Law Enforcement certifies HCC as a regional training center for law enforcement, corrections, and correctional probation officers. Multiple national organizations accredit or approve HCC’s health sciences and career programs:
  • The Culinary Management and Restaurant Management programs by the Accrediting Commission of the American Culinary Federation’s Foundation (ACFF)
  • The Dental Hygiene and Dental Assisting programs by the Commission on Dental Accreditation, 211 East Chicago Avenue, Chicago, IL 60611, https://www.ada.org/100.aspx, (312) 440-4653.
  • The Diagnostic Medical Sonography program by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 25400 US Highway 19 North, Suite 158, Clearwater, FL 33763, www.caahep.org upon the recommendation of the Joint Review Committee for Diagnostic Medical Sonography (JRCDMS).
  • The Dietetic Technician AS degree by the Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics, 120 S Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, (312) 899-0040.
  • The HCC Emergency Medical Services (EMS) Programs is fully accredited by the Florida Department of Health, Bureau of Emergency Medical Services. In addition, the Paramedic program is accredited by the Committee on Accreditation of Educational Programs, https://www.caahep.org/, upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).
• The Nuclear Medicine Technology program is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology, 2000 130, #203, Edmond, OK 73003, (405) 285-0546, https://jrcnmt.org
• The Nursing (Associate Degree) R.N. program by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326; (404) 975-5000, fax (404) 975-5020, https://www.acenursing.org/
• The Opticianry program by the Commission on Opticianry Accreditation, P.O. Box 592, Canton, New York, Attention: Debra White, Director of Accreditation, (703) 468-0566, director@COAAccreditation.com.
• The Radiography program by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 North Wacker Drive, Suite 900, Chicago, IL 60606-2901, (312) 704-5300, https://www.jrcert.org, mail@jrcert.org
• The Radiation Therapy program by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 North Wacker Drive, Suite 2850, Chicago, IL 60606-3182, (312) 704-5304, https://www.jrcert.org, mail@jrcert.org
• The Respiratory Care program is accredited by the Commission on Accreditation for Respiratory Care, 1248 Harwood Road, Bedford, TX 76021-4244, (817) 283-2835, https://www.coarc.com/
• The Veterinary Technology program is accredited by the American Veterinary Medical Association (AVMA) Committee on Veterinary Technician Education and Activities (CVTEA), 1931 North Meacham Road, Suite 100, Schaumberg, IL 60173-4360, (800) 248-2862.
## Student Services Important Calendar Dates for Students
### Fall 2020, Spring 2021, Summer 2021

<table>
<thead>
<tr>
<th><strong>FINANCIAL AID PRIORITY DEADLINE</strong></th>
<th><strong>FALL 2020</strong></th>
<th><strong>SPRING 2021</strong></th>
<th><strong>SUMMER 2021</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NOTE:</strong> Due date for submitting all financial aid documents to ensure financial aid awarding by the payment due date.</td>
<td>6/23/20</td>
<td>11/16/20</td>
<td>3/24/21</td>
</tr>
<tr>
<td>Financial Aid Refunds Begin**</td>
<td>9/15/20</td>
<td>2/9/21</td>
<td>6/14/21</td>
</tr>
<tr>
<td>or visit <a href="https://www.hccfl.edu/paying-college/refunds">https://www.hccfl.edu/paying-college/refunds</a></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **PRIORITY REGISTRATION PERIOD** |
|----------------------------------|---------------|-----------------|-----------------|
| Honor/Athletes/Veteran | 4/13/20 | 11/2/20 | 3/22/21 |
| Current and former students w/30+ credit hours | 4/14/20 | 11/3/20 | 3/23/21 |
| Current and former students w/1-29 credit hours | 4/20/20 | 11/9/20 | 3/29/21 |
| New students/Non-degree/Dual Enrollment/Transient | 4/27/20 | 11/16/20 | 4/5/21 |
| State Employee and Senior Citizen | First Day of Class | First Day of Class | First Day of Class |

<table>
<thead>
<tr>
<th>**PAYMENT DUE DATES ******</th>
<th><strong>FALL 2020</strong></th>
<th><strong>SPRING 2021</strong></th>
<th><strong>SUMMER 2021</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NOTE:</strong> After payment due date, course fees are due at time of registration.</td>
<td>7/17/20</td>
<td>12/11/20</td>
<td>4/16/21</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>REGULAR TERM BEGINS/ENDS</strong></th>
<th><strong>FALL 2020</strong></th>
<th><strong>SPRING 2021</strong></th>
<th><strong>SUMMER 2021</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Payment Due Date <strong>NOTE:</strong> After payment due date, course fees are due at time of registration.</td>
<td>7/17/20</td>
<td>12/11/20</td>
<td>N/A</td>
</tr>
<tr>
<td>Drop/Add</td>
<td>8/17-21/20</td>
<td>1/11-15/21</td>
<td>N/A</td>
</tr>
<tr>
<td>Deadline for Refund</td>
<td>8/21/20</td>
<td>1/15/21</td>
<td>N/A</td>
</tr>
<tr>
<td>Financial Aid Refunds Begin or visit <a href="https://www.hccfl.edu/paying-college/refunds">https://www.hccfl.edu/paying-college/refunds</a></td>
<td>9/15/20</td>
<td>2/19/21</td>
<td>N/A</td>
</tr>
<tr>
<td>Last Day to Withdraw &quot;W&quot; grade</td>
<td>10/24/20</td>
<td>3/28/21</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>12-Week Classes Begin/End</strong></th>
<th><strong>FALL 2020</strong></th>
<th><strong>SPRING 2021</strong></th>
<th><strong>SUMMER 2021</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Payment Due Date <strong>NOTE:</strong> After payment due date, course fees are due at time of registration.</td>
<td>7/17/20</td>
<td>12/11/20</td>
<td>4/16/21</td>
</tr>
<tr>
<td>Drop/Add</td>
<td>9/15-19/20*</td>
<td>2/8-12/21</td>
<td>5/17-21/21</td>
</tr>
<tr>
<td>Deadline for Refund</td>
<td>9/19/20*</td>
<td>2/12/21</td>
<td>5/21/21</td>
</tr>
<tr>
<td>Financial Aid Refunds Begin or visit <a href="https://www.hccfl.edu/paying-college/refunds">https://www.hccfl.edu/paying-college/refunds</a></td>
<td>9/15/20</td>
<td>2/9/21</td>
<td>6/14/21</td>
</tr>
<tr>
<td>------------------------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>First Time Loan Borrow Refunds Begin or visit <a href="https://www.hccfl.edu/paying-college/financial-aid-and-scholarships/student-loan-information">https://www.hccfl.edu/paying-college/financial-aid-and-scholarships/student-loan-information</a></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Day to Withdraw with &quot;W&quot; Grade</td>
<td>11/6/20</td>
<td>4/3/21*</td>
<td>7/6/21</td>
</tr>
<tr>
<td><strong>Payment Due Date</strong></td>
<td>7/17/20</td>
<td>12/11/20</td>
<td>4/16/21</td>
</tr>
<tr>
<td><strong>Drop/Add</strong></td>
<td>9/22-26/20*</td>
<td>2/16-20/21*</td>
<td>5/17-21/21</td>
</tr>
<tr>
<td><strong>Deadline for Refund</strong></td>
<td>9/26/20*</td>
<td>2/20/21*</td>
<td>5/21/21</td>
</tr>
<tr>
<td><strong>Financial Aid Refunds Begin or visit <a href="https://www.hccfl.edu/paying-college/refunds">https://www.hccfl.edu/paying-college/refunds</a></strong></td>
<td>9/15/20</td>
<td>2/9/21</td>
<td>6/14/21</td>
</tr>
<tr>
<td><strong>Last Day to Withdraw with &quot;W&quot; Grade</strong></td>
<td>11/4/20</td>
<td>4/6/21</td>
<td>7/28/21</td>
</tr>
<tr>
<td><strong>8-Week Classes Begin/End</strong></td>
<td>8/17/20 - 10/12/20</td>
<td>1/11 – 3/8/21</td>
<td>6/1 – 7/26/21</td>
</tr>
<tr>
<td><strong>Payment Due Date</strong></td>
<td>7/17/20</td>
<td>12/11/20</td>
<td>4/16/21</td>
</tr>
<tr>
<td><strong>Drop/Add</strong></td>
<td>8/17-21/20</td>
<td>1/11-15/21</td>
<td>6/1-5/21*</td>
</tr>
<tr>
<td><strong>Deadline for Refund</strong></td>
<td>8/21/20</td>
<td>1/15/21</td>
<td>6/5/21*</td>
</tr>
<tr>
<td><strong>Financial Aid Refunds Begin or visit www/hccfl.edu/paying-for-college/refunds</strong></td>
<td>9/15/20</td>
<td>2/9/21</td>
<td>6/14/21</td>
</tr>
<tr>
<td><strong>First Time Loan Borrow Refunds Begin or visit www/hccfl.edu/financial-aid/loan information</strong></td>
<td>9/29/20</td>
<td>2/23/21</td>
<td>6/28/21</td>
</tr>
<tr>
<td><strong>Last Day to Withdraw with &quot;W&quot; Grade</strong></td>
<td>9/21/20</td>
<td>2/12/21</td>
<td>7/5/21</td>
</tr>
<tr>
<td><strong>8-Week Classes Begin/End</strong></td>
<td>10/13/20 - 12/8/20</td>
<td>3/9 – 5/10/21</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Payment Due Date</strong></td>
<td>7/17/20</td>
<td>12/11/20</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Drop/Add</strong></td>
<td>10/13-17/20*</td>
<td>3/9-13/21*</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Deadline for Refund</strong></td>
<td>10/17/20*</td>
<td>3/13/21*</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Financial Aid Refunds Begin or visit www/hccfl.edu/paying-for-college/refunds</strong></td>
<td>9/15/20</td>
<td>2/9/21</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>First Time Loan Borrow Refunds Begin or visit www/hccfl.edu/financial-aid/loan information</strong></td>
<td>9/29/20</td>
<td>2/23/21</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Last Day to Withdraw with &quot;W&quot; Grade</strong></td>
<td>11/16/20</td>
<td>4/13/21</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>6-Week Classes Begin/End</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>5/17 – 6/28/21</td>
</tr>
<tr>
<td><strong>Payment Due Date</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>4/16/21</td>
</tr>
<tr>
<td><strong>Drop/Add</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>5/17-21/21</td>
</tr>
<tr>
<td><strong>Deadline for Refund</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>5/21/21</td>
</tr>
<tr>
<td><strong>Financial Aid Refunds Begin or visit www/hccfl.edu/paying-for-college/refunds</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>6/14/21</td>
</tr>
<tr>
<td><strong>First Time Loan Borrow Refunds Begin or visit www/hccfl.edu/financial-aid/loan information</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>6/28/21</td>
</tr>
<tr>
<td><strong>Last Day to Withdraw with &quot;W&quot; Grade</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>6/11/21</td>
</tr>
<tr>
<td><strong>6-Week Classes Begin/End</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>6/29 – 8/9/21</td>
</tr>
<tr>
<td></td>
<td>Payment Due Date</td>
<td>Drop/Add</td>
<td>Deadline for Refund</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------------------------------------------</td>
<td>------------------</td>
<td>----------</td>
<td>---------------------</td>
</tr>
<tr>
<td>NOTE: After payment due date, course fees are due at time of registration.</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>9/15/20</td>
<td>2/9/21</td>
<td>2/26/20</td>
</tr>
</tbody>
</table>

**NOTE:** After payment due date, course fees are due at time of registration.
<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Date</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Day to Withdraw &quot;W&quot; grade</td>
<td>12/17/20</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Deadline to Apply for Commencement Program</td>
<td>2/15/21</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Deadline to Apply for Degree</td>
<td>11/15/20</td>
<td>4/15/21</td>
<td>7/15/21</td>
</tr>
<tr>
<td>Last Day to Remove &quot;I&quot; Grade</td>
<td>3/5/21</td>
<td>7/2/21</td>
<td>10/15/21</td>
</tr>
<tr>
<td><strong>COLLEGE CLOSED</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Labor Day</td>
<td>9/5 – 9/7/20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MLK Day</td>
<td>1/18/21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memorial Day</td>
<td>5/29-31/21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>President's Day</td>
<td>2/15/21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(YB/MD/BR/DM/SS/GWSC only)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(PC Open for all staff and classes)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Independence Day</td>
<td>7/3-5/21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Veterans Day</td>
<td>11/11/20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thanksgiving Break</td>
<td>11/26 – 11/29/20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strawberry Festival</td>
<td>3/8/21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Plant City only)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Winter Break Faculty</td>
<td>12/21/20 – 1/3/21</td>
<td></td>
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</tr>
<tr>
<td>Mid-term Break</td>
<td>3/15 – 21/21</td>
<td></td>
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</tr>
<tr>
<td>Faculty In-Service</td>
<td>10/20/20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring Day</td>
<td>4/2-4/21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All College Day</td>
<td>4/16/21</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Non-Class Days</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Must Add/Drop/Withdraw classes online only if the last day to drop/add or deadline to withdraw date falls on a day the college is closed.**

**For additional information visit [www.hccfl.edu/paying-for-college/refunds](http://www.hccfl.edu/paying-for-college/refunds)

***For additional information visit [www.hccfl.edu/paying-college/financial-aid-and-scholarships/student-loan-information](http://www.hccfl.edu/paying-college/financial-aid-and-scholarships/student-loan-information)

****After payment due date, course fees are due at the time of registration

**Note: Commencement is Friday, May 7, 2021**
HCC Locations

Dr. Gwendolyn W. Stephenson District
Administration Center
39 Columbia Drive (Davis Islands)
Tampa, Florida 33606

Brandon Campus
10451 Nancy Watkins Dr.
Tampa, FL 33619

Dale Mabry Campus
4001 W. Tampa Bay Blvd.
Tampa, Florida 33614-7820
Dale Mabry Hwy. & Tampa Bay Blvd.

Plant City Campus
1206 North Park Road
Plant City, FL 33563

South Shore Campus
551 24th Street North East
Ruskin FL 33570

Ybor City Campus
2112 N. 15th Street
Tampa, Florida 33605-3648

Ybor City Campus Training Center
5610 E. Columbus Drive
Tampa, Florida 33619

HCC-MacDill Center
HCC-MacDill Center
8102 Condor Street
MacDill AFB, FL 33621

HCC-The Regent
6437 Watson Road
Riverview, FL 33578
Admissions and Registration
Steps for Admission

1. Application
2. Financing your education
3. Transcripts / Academic Evaluation
4. Orientation and Registration

For more information and to apply online, go to www.hccfl.edu.

International Students (F-1 Student Visa Status)
Students planning to attend the College on an F-1 student visa must submit an International Student Application. For more information and to apply online, students should refer to the section below or go to the Center for International Education (CIE) website at www.hccfl.edu/international.

Admissions Policies
HCC maintains an “open-door” policy. Students may be admitted if they meet one of the following criteria:
• Graduated with a standard diploma from a secondary school
• Earned a high school equivalency certificate or diploma through any state Department of Education or through the military
• Earned a Certificate of Completion, Eligible for College Placement Test (W8A) (graduating class of 2003 forward)
• Completed a home education program pursuant to the requirements of F.S. 1002.41
• Applied as a transfer student
• Applied as a transient student

The graduation requirements of the catalog year in which a student initially enrolls will be valid for six years. Students who graduate after six years from the time of their initial enrollment will graduate under the requirements of the catalog in effect during the academic year in which they wish to graduate.

Exceptions:
• Programs deleted from the College inventory have a two-year teach-out time period, and students must complete a deleted program within the two-year teach-out period;
• State Framework changes or other changes coming from the state supersede the six-year time period.

In order to maintain the college ideals of scholarship and deportment, the right is reserved to deny admission to applicants for any reason, deemed to be in the best interest of the college.

Admissions Requirements
Associate Degree, College Credit Certificate Programs, and Applied Technology Diploma

To be eligible for admission to an associate degree program, college credit certificate, or applied technology diploma (F.S. 1007.263), applicants must have one of the following:
• Associate or higher degree or a standard high school diploma.
• Florida public high school graduates must have met Florida graduation requirements (F.S. 1003.43).
• A high school equivalency diploma, or
• Completion of a home education program pursuant to the requirements of F.S. 1002.41.
• Some PSAV programs are excluded from this requirement.

NOTE: If the applicant received a special high school diploma such as the Certificate of Completion (W08) or another special high school diploma and wishes to apply for admission as a regular student, a high school equivalency diploma must be earned by successfully completing the GED exam offered through the Florida Board of Education.

There may be additional requirements for limited access programs. Check the webpage at https://www.hccfl.edu/academics or in the associate degrees/technical programs section of this catalog.

IMPORTANT: Students who hold education certificates from countries other than the United States should refer to the International Students section in this catalog.

Distance Learning Students
Declaration of Current Residence
Every student is required to report a current residence address at the time of application. Any change of current address should be reported to the Office of the Registrar immediately after the effective date. To comply with federal and state regulations and reciprocity agreements, currently enrolled students are required to confirm their address every 120 days. The physical location of the student during an educational activity may impact HCC’s authorization to offer on-line education to the student.

State Authorization for Providing Online Courses, Compliance, and Reciprocity (SARA)
Hillsborough Community College has been approved by Florida to participate in the National Council for State Authorization Reciprocity Agreements. NC-SARA which is a voluntary, regional approach to state oversight of postsecondary online education. NC-SARA allows students residing outside of the State of Florida to enroll in HCC’s online courses. Reciprocity agreements allow for the open delivery of online courses and other academic programs in other states.
pursuits including field experiences such as internships or practicums, within participating states.

**NOTICE TO OUT-OF-STATE ONLINE STUDENTS:**
Due to authorization requirements specific to each state, residents of California and the Commonwealth of Mariana Islands (CNMI) are not allowed to participate in online learning classes at HCC at this time. To learn more about SARA, please visit https://www.fldoe.org/sara/complaint-process.stml

**Residents Outside of Florida and Professional Licensure-NC-SARA**

Hillsborough Community College offers various programs and certificates designed to prepare students to sit for licensure in Florida. Licensure in other states may vary. If you are currently pursuing a program or certificate that leads to professional licensure, your program administrator will provide another communication with information on your particular state. If you have not yet declared a program of study, please contact the academic program of interest. You will then be provided with information specific to the program and your state of residency.

**Former Student Returning**

Students maintain an active application status by attending HCC at least one term in an academic year. A new HCC application must be competed once a student has broken enrollment or has not attended classes for three consecutive terms. Former students do not have to pay additional application fees. A former student returning to the college and pursuing a degree or certificate must meet the graduation requirements of the catalog in effect at the time the student returns to continuous enrollment at HCC.

**NOTE:** Since the college strives to provide the community with up-to-date, postsecondary educational opportunities, HCC’s curriculums are constantly reviewed and are often revised. HCC does not guarantee that the college will continue to offer previously required courses or their prerequisites made unnecessary by changes in programs.

**Transfer Students**

If students have attended other postsecondary institutions, they may be admitted as a transfer student. Students must provide their high school and or previous college transcripts prior to attendance.

**Transient Students**

Students attending other colleges or universities who wish to take courses at HCC in order to fulfill degree requirements at their home institutions may be admitted as transient students. Prior to registration, if students wish to apply as transient, they must submit, at least 30 days prior to the applicable registration deadline, a transient application and documentation from the home institution that:

- Certifies they are in good academic standing.
- Indicates the HCC courses in which students may enroll.
- Affirms that they may use the courses completed and credits earned at HCC to meet the program requirements at the home institution.

Students attending a Florida postsecondary institution must submit this information via the transient application at www.floridashines.org.

Transient students are not required to provide official transcripts of their previous college coursework. However, if the documentation from their home institution does not indicate the HCC courses in which the students may enroll, applicants must provide unofficial transcripts to verify they meet HCC course prerequisites.

**NOTE:** HCC students who wish to attend another college as transient students must have a minimum cumulative grade point average of 2.0. Students attending a Florida postsecondary institution must submit this information via the transient application at www.floridashines.org.

**Dr. Lydia R. Daniel Honors Program**

The Dr. Lydia Daniel Honors Program is designed to provide a rigorous academic program for talented and motivated students. The HCC Honors Program reflects a mutual commitment by students and faculty.

In addition to completing the HCC application, students must submit an Honors Program application, along with supporting documents. Students should visit the Honors website (www.hccfl.edu/honors) for the most up to date admissions process information.

Applicants must meet at least one of the following criteria to qualify for the Honors Program:

- A high school GPA of 3.4 (unweighted) or higher and college level in verbal of SAT/ACT or
- An SAT combined score of 1230 (old SAT 1160) or higher in Critical Reading and Math
- An ACT composite score of 26 or higher or
- Top 10% of graduating class with SAT combined score of 1130 (old SAT 1050) or ACT composite score of 25 or higher,
- Completion of 12 credit hours of dual enrollment courses with a 3.8 GPA or
- A cumulative GPA of 3.6 or higher with a minimum of six semester hours of college-level courses (for university or college students).

To graduate from the Honors Program, students must complete a minimum of 24 credit hours of Honors courses (including IDH 2931H) with a minimum overall GPA of 3.0.

For more information about the HCC Honors Program, call 813-253-7974 or 813-253-7986 or email honors@hccfl.edu.
International Students

HCC welcomes students from all over the world. International students include students with non-immigrant visa classifications, such as A, F, H, J, or M.

The Center for International Education (CIE) provides services to all international students attending HCC on F-1, F-2, and M-1 student visas. Students in other visa categories should contact the office of admissions, registration, and records at the campus they plan to attend for assistance in enrolling at HCC, unless they are planning to change their status to F-1.

The admission procedures specified below are for international students intending to study at HCC on an F-1 student visa. To be considered for admission, an F-1 student must (1) demonstrate competency in the English language; (2) document sufficient funds to cover educational and living costs; (3) provide proof of graduation from a secondary school; and (4) submit an International Student Application by the given application deadline.

Specifically, the student must meet the following admissions criteria:

- Completed International Student Application (initial or transfer student) at www.hccfl.edu/international.
- $50 international student application fee (non-refundable). This may be paid online, by cashier’s/certified bank check or money order (made payable to “Hillsborough Community College”), international wire transfer through www.flywire.com, or in person at the Campus Bursar Office.
- Statement of financial responsibility, which documents sufficient funds to cover the cost of tuition, room and board, books, personal expenses, health insurance and travel for at least one academic year (two semesters). Financial documentation (Affidavit of Financial Support and bank letter) must be issued within six months of the term the student plans to enroll. Please visit the CIE website at www.hccfl.edu/international for more detailed financial documentation requirements.
- Proof of English language or proficiency by meeting one of the following conditions: A score of 61 or higher on the internet-based TOEFL (Test of English as a Foreign Language); an overall band score of 5.5 on the IELTS (International English Language Testing System); a score of 4.0 or higher on the iTEP (International Test of English Proficiency); a score of 90 or higher on the Duolingo English Test; successful completion of Kaplan High-Intermediate Level; successful completion of Level 6 at Tampa Language Center; successful completion of Level 4 at INTO USF or Level 109/Advanced Levels at an English Language Center (ESL); graduation from a U.S. high school with a standard high school diploma after having attended that school for at least two years (not including ESOL classes) and attaining a grade of “C” or higher in English; or an official transcript proving successful completion of ENC 1101 at a regionally accredited post-secondary institution. For additional ways to prove English language proficiency, go to www.hccfl.edu/international.

- Documentation of high school graduation or an equivalent level of education. Students who have completed high school and/or post-secondary coursework outside of the United States should refer to the section below regarding translation and evaluation of foreign credentials.
- Copy of passport photo page.

**F-1 students transferring from a U.S. institution must submit additional documentation:**

- Copy of current Form I-20, copy of F-1 visa; transfer clearance form completed by current school’s International Student Advisor.

After being admitted as an F-1 international student at HCC, students must submit proof of health insurance, attend a New International Student Orientation and, if applicable, take a placement test before registering for classes.

**Proof of health insurance.** HCC requires all F-1 visa students to maintain adequate health insurance throughout their studies at the College. Proof of insurance is mandatory for each year of enrollment. Visit www.insuranceforstudents.com for more information and to enroll in the HCC-endorsed health insurance plan.

**Important information for students who have completed high school and/or postsecondary work outside the United States:**

Transcript(s) in English (original document in the original language and a certified English translation) from high school and from all previously attended colleges and universities must be evaluated by an agency accredited by NACES (National Association of Credential Evaluation Services at www.naces.org). A document-by-document evaluation is required for high school transcripts. Certain countries are exempt from the high school transcript evaluation requirement. Refer to the admission requirements on the CIE website at www.hccfl.edu/international for a list of exempt countries. A course-by-course evaluation is required for all foreign college and university transcripts. Foreign transcripts in original English do not need to be translated. Students can obtain the names and addresses of approved evaluation service providers at www.naces.org.

**NOTE:** Students are responsible for all costs associated with obtaining translations and evaluations of their transcript(s).

**Articulated Acceleration for High School Students**

High school students may earn college credits through articulated acceleration. (Florida Statute 1007.271). These acceleration options are dual enrollment and early admissions. Students who satisfy the following requirements may qualify for admission as a student in one of these categories:

**Dual Enrolled High School Students**
(Florida Statute 1007.271)
Students who enroll as a dual enrolled student can earn college credit by attending college-level courses taught by HCC instructors at an HCC campus before, during, or after high school and during the summer, or at an identified high school during the regular class day. Credits for the courses satisfactorily completed will apply toward both the high school diploma and toward an associate or baccalaureate degree. Dual enrollment courses will not count as excess hours in the 60-hour requirement of an associate in arts or an associate in science degree.

Application fees and tuition are waived and textbooks are provided for Hillsborough County public school students accepted through the dual enrollment program.

Students attending college classes must be mindful that they will be in a learning environment that explores a diverse and open range of ideas that requires a mature understanding of multiple perspectives. All students, including dual enrolled students, must be able to engage in discussions in a mature and responsible manner.

To be eligible for consideration for admission as a dually enrolled high school student, one must meet the following requirements:

• Be in high school.
• Provide a high school transcript showing an unweighted cumulative grade point average of 3.0.
• Provide written authorization from the high school principal or his/her designee.
• Achieve appropriate placement scores on the SAT, ACT, or the written or computerized version of the PERT (Postsecondary Education Readiness Test).
• Submit a Special Category Student form (Home Education Students).
• Submit an HCC application for admission.
• Meet with an HCC counselor to complete the registration process.

No student will be permitted to participate in dual enrollment classes without having met eligibility and application requirements. Dual enrollment students are allowed one attempt per dual enrollment course.

To remain eligible as a dually enrolled high school student, one must maintain a 3.0 high school GPA and a 2.0 HCC GPA.

**Early Admission**

Early admission is a form of dual enrollment. Students are admitted through the early admission option of dual enrollment when they register at HCC as a full-time student (12 or more credits) during their senior year of high school.

Credits for the courses completed satisfactorily at HCC will apply toward the high school diploma and toward an associate or baccalaureate degree. Application fees are waived for students accepted through the early admission program. Tuition is waived for early admissions students for all courses taken through this program while they are still in high school.

**NOTE:** To be eligible for consideration for admission through the early admission program a student must meet the following requirements:

• Be a high school senior.
• Provide written authorization from the high school principal or designee.
• Provide a high school transcript showing an unweighted cumulative grade point average of 3.5.
• Achieve appropriate placement scores on the SAT, ACT, or the written or computerized version of the PERT (Postsecondary Education Readiness Test).
• Submit a Special Category Student Form (Home Education Students).
• Submit an HCC application for admission.
• If approved for early admission, meet with an HCC counselor to complete the registration process.

For additional eligibility requirements visit our website [https://www.hccfl.edu/admissions/dual-enrollment-and-early-admissions](https://www.hccfl.edu/admissions/dual-enrollment-and-early-admissions).

**NOTE:** Home-educated students may take advantage of the dual enrollment and early admissions acceleration options and must be in compliance with applicable Florida state laws. In addition to the above requirements, a parent of home-educated students must submit a sworn Affidavit for Compliance in accordance with F.S. 1002.41. Home-educated students should submit an academic plan that identifies the courses they have taken through home education and the courses they intend to take at HCC as a dually enrolled student.

**NOTE:** Private schools must meet requirements for F.S. 1002.42 and 1003.43 and have an articulation agreement on file with HCC in order for their students to participate in dual enrollment and early admissions programs.

**NOTE:** Public and private high school students interested in participating in the dual enrollment program must contact their high school counselor for information and to determine eligibility. Students enrolled in home education programs may contact the HCC dual enrollment office for information.

**NOTE:** When calculating Satisfactory Academic Progress for Title IV, Student Financial Assistance and adherence to any state maximum-hour requirement(s) for an AA or AS degree, HCC will not include any courses students complete while they are dually enrolled.

**Concurrent Admissions Program (ConAP)**

HCC participates in the United States Army Concurrent Admissions Program (ConAP). As a ConAP member, HCC will admit eligible new soldiers upon their enlistment. Moreover, the college guarantees full admission during the soldier’s entire enlistment and for two years after the applicant completes active military service.

Soldiers enlisting in the Army Reserve are also eligible for consideration under the ConAP program. However,
the admission guarantee for qualified Reservists is deferred until the Reservists complete their initial period of active duty training (about six months).

Admissions Procedures

Application

NOTE: HCC reserves the right to guide the enrollment of its students on the basis of placement tests, pre-registration interviews and past academic performance.

Applications for admission can be obtained and submitted on-line at https://www.hccfl.edu/admissions/apply-online. Applicants must attend within one year of admission. Otherwise, a new application and possibly transcripts will be required.

International Students (F-1 Student Visa Status)

Students planning to attend the College on an F-1 student visa must submit an International Student Application. For more information and to apply online, students should refer to the section above or go to the Center for International Education (CIE) website at https://www.hccfl.edu/international.

Transcripts

Students whose transcripts do not arrive prior to the start of the semester, will not be eligible for financial assistance or veterans, or other benefits.

Applicants are responsible for ensuring that official copies of high school transcripts, GED scores, or copy of degree earned and official transcript(s) from all postsecondary schools attended are submitted to the college.

Applicants who completed a home education program must provide a signed affidavit affirming completion.

NOTE: A final, official high school transcript is one that includes the official graduation date.

NOTE: For transcripts outside the United States refer to the International Students section of this catalog (Important information for students who have completed high school and or postsecondary work outside the United States).

Fraudulent Credentials

If a student knowingly:

• Makes a false statement,
• Conceals material information,
• Provides inaccurate information on any document submitted to the college,
• Alters a transcript or other academic credential

He or she may be denied admission, suspended or dismissed.

Enrollment Restrictions

Under normal conditions, all students who meet the college’s entrance requirements will be admitted. At times, state enrollment and funding limitations may preclude enrollment of out-of-state and international students. At those times, students will be admitted according to the following priorities:

• Returning students/Veterans
• New students who are Florida residents
  a. First-time-in-college students
  b. Transfer students
• New out-of-state students
  a. First-time-in-college students
  b. Transfer students
• International students

NOTE: HCC participates in priority registration. Depending on your status, HCC will determine your registration dates. These dates are advertised on the Web and the college calendar.

The college reserves the right to deny admission to applicants whose past actions were disruptive to or interfered with the orderly processes, functions, or programs of another postsecondary institution. In addition, HCC may deny admission to students who are ineligible, for any reason, to resume their studies at another postsecondary institution.

Orientation and Testing

Students attending HCC for the first time must attend orientation and, if applicable, take a college placement test. Once the student has been admitted, the appropriate testing, admissions and records, or advising office will provide information about orientation and testing. The college will provide reasonable accommodations to disabled students taking the placement test.

Degree-seeking students must provide assessment/placement test scores from PERT, ACT, or SAT prior to registering for classes. Test scores may be no more than two years old. If the scores are older than two years or if the student has not previously taken one of the aforementioned placement tests, the student may take the test at the appropriate HCC testing office.

The following test scores are required for college-level courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>ACT Enhanced</th>
<th>PERT</th>
<th>SAT I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading</td>
<td>19</td>
<td>106</td>
<td>24 (Verbal)</td>
</tr>
<tr>
<td>English</td>
<td>17</td>
<td>103</td>
<td>n/a</td>
</tr>
<tr>
<td>Mathematics</td>
<td>19</td>
<td>114</td>
<td>24</td>
</tr>
</tbody>
</table>

NOTE: The minimum required scores on the PERT (Postsecondary Educational Readiness Test) are subject to change. Students testing into college preparatory course work are subject to certain regulations regarding registration.

Students who have earned a four year degree or completed college-level English and mathematics courses will be exempt from the testing requirement. The college strongly recommends that students who have completed postsecondary work at other institutions bring unofficial transcripts or grade slips with them for advising and registration purposes.
Student
For the purpose of assessing registration fees in public community colleges and universities, students are classified as Florida residents or non-Florida residents per Florida Statute 1009.21 and State Board of Education Rule 6A-10.044.

According to Florida statute, in order to pay in-state tuition, students must complete a declaration of residency (included in the application for admission) prior to the drop and add period of the term for which Florida Residency is sought. To qualify for in-state tuition, a student must be a U.S. citizen, permanent resident alien or legal alien.

For other eligible non-citizen categories or for a list of exemptions from the residency process, refer to the Guidelines on Florida Residency for Tuition Purposes. Exempt students are required to provide documentation of exemption eligibility.

For current and detailed information about Florida residency for tuition purposes visit Florida Shines at https://www.floridashines.org/, click on Apply, click on Residency Guidelines or visit HCC’s student services website at https://www.hccfl.edu/admissions/proof-residency-tuition-purposes. When applying through the Florida Shines website, documentation to support an application for in-state tuition on the basis of legal residence for statutory exemption is required.

Residency Criteria
The HCC application includes a Florida residency affidavit which must be completed. An applicant who does not complete the residency affidavit or provide incomplete documentation on or in conjunction with the residency affidavit will not be classified as a resident for tuition purposes, and will be required to supply information prior to the end of drop and add.

If a student indicates his or her status as nonresident, they are not required to prove such status or to submit supporting documentation. The student is automatically considered out-of-state for tuition purposes.

Independent Student
An applicant who provides evidence of any one of the following criteria shall be classified as an independent student for the determination of residency for tuition purposes.

• The student is 24 years of age or older by the first day of classes of the term for which residency status is sought as a Florida institution; or
• The student is married; or
• The student has children who receive more than one-half of their support from the student; or
• The student has other dependents who live with and receive more than one-half of their support from the student; or
• Both of the student’s parents are deceased or the student is or was until age 18 one of the following: a ward/dependent of the court or in foster care; or
• The student is determined an unaccompanied homeless by a school district homeless liaison, emergency shelter or transitional housing program; or
• The student is working on a master’s or doctoral degree during the term for which residency status is sought at a Florida institution; or
• The student is employed and provides a tax transcript of income equal or exceeding 50% of annual cost of attendance stipulated by financial aid.

Dependent Student
All students who do not meet the definition of an independent student shall be classified as dependent students for the determination of residency for tuition purposes.

Dependent students will be granted in-state residency for tuition purposes if the residency affidavit on the college application indicates that all of the following criteria are met. Further documentation will not be required for these students.

• The student is eligible to be claimed by his or her parent or legal guardian as a dependent under the federal income tax code; and
• The student’s nation of citizenship is the United States; and
• The student is under 24 years of age; and
• The student’s mother, father or legal guardian is the person claiming Florida residence; and
• The student’s mother, father or legal guardian claiming Florida residence has a Florida permanent legal address; and
• The student’s mother, father or legal guardian claiming Florida residence provides written or electronic verification that he or she has been issued two or more of the acceptable documents in the following Acceptable Documents for In-State Tuition Application section.

Acceptable Documents for In-State Tuition Application
Applicants will have to submit documentation that they or a parent or legal guardian have been a Florida resident for at least 12 months prior to the first day of the classes for which they are enrolling. At least two of the following documents must be submitted with dates that evidence the 12-month qualifying period.

Documentation submitted after the drop/add period will not become effective until the following semester. There must be no information contradicting the applicant’s claim of residency.

At least one of the two documents submitted must be from the following:

• Florida driver’s license;
• State of Florida identification card;
• Florida voter registration card;
• Florida vehicle registration;
• Proof of a permanent home in Florida occupied as the primary residence of the student or by the student’s parent if the student is a dependent child;
• Proof of homestead exemption in Florida;
• Transcripts from a Florida high school for multiple years if Florida high school diploma or GED was earned within last 12 months;
• Proof of permanent full-time employment in Florida (one or more jobs for at least 30-hours per week for a 12-month period).

The following documents may be used in conjunction with one of the documents listed above:
• A declaration of domicile in Florida;
• A Florida professional or occupational license;
• Florida incorporation;
• Documents evidencing family ties in Florida;
• Proof of membership in Florida-based charitable or professional organizations;
• Any other documentation that supports the student’s request for resident status including but not limited to utility bills and proof of 12 consecutive months of payments, a lease agreement and proof of 12 consecutive months of payments, or official state, federal or court documents evidencing legal ties to Florida.

Unacceptable Documents for Proof of Residency

• Hunting/fishing license
• Library card
• Shopping club/rental card
• Birth certificate
• Passport

Active duty military personnel assigned for duty within the state, as well as their sponsored dependents (spouse/children) are automatically Florida residents for tuition purposes. For verification, they need to submit a copy of their assignment orders and have their military ID card showing their status visually verified.

Information Resources

DHSMV Database-Access to the Division of Highway Safety and Motor Vehicle Database can be used exclusively for the purpose of verifying driver’s license, vehicle registration for students and their parents.

Requirements for Reclassification of Florida Residency for Tuition Purposes

Except as otherwise stated, a student who is classified as a non-resident for tuition purposes may become eligible for reclassification as a Florida resident for tuition purposes by presenting a minimum of three (3) documents, one of which must be from the first group of documents and two (2) documents can be from either of the two groups previously identified under “Acceptable Documents for In-State Tuition Application” that demonstrate the establishment of permanent legal residence in Florida other than for the sole purpose of pursuing a postsecondary education.

In addition, documentation must demonstrate that the independent student has, or the dependent student’s parents have, maintained legal residency in Florida for at least twelve (12) consecutive months prior to the student’s request for reclassification.

Students interested in pursuing residency reclassification or to appeal an initial residency classification decision may do so by contacting the dean of student services at any HCC campus. Requests for reclassification will be reviewed by HCC’s Residency Appeals Committee.

Transfer Credit

HCC will accept transfer credit from other institutions if they are accredited by one of the following regional accreditation agencies:

- MSA: Middle States Commission on Higher Education
- NEASC: New England Association of Schools and Colleges, Commission on Institutions of Higher Education
- NCA-HLC: North Central Association of Colleges and Schools, The Higher Learning Commission
- NWCCU: Northwest Commission on Colleges and Universities
- SACS: Southern Association of Colleges and Schools, Commission on Colleges
- WASC-JR: Western Association of Schools and Colleges, Accrediting Commission for Community and Junior Colleges
- WASC-SR: Western Association of Schools and Colleges, Senior Colleges and University Commission

HCC conducts transcript evaluations for all lower division credit course work even when a prior degree has been earned. Applicants must provide official transcripts from each postsecondary institution they have attended.

For courses taken at accredited institutions, transfer credit will be awarded for courses in which a grade of “D” or better has been earned. Transfer courses taken at an institution where a plus/minus system was used will be rounded up or down to the corresponding whole letter grade.

Since certain HCC curricula and programs require that students earn a grade of “C” or better in specific courses, transfer students should meet with advisors to determine if courses taken elsewhere meet degree requirements. All students must complete 25 percent of their degree at HCC.

HCC reviews the content and objectives of courses completed at non-regionally accredited institutions on a course-by-course basis. Applicants must provide HCC with all required documents before the college will consider awarding transfer credit.

The transcript office notifies students when evaluations are complete.

Registration

Registration is held each semester. Students register through WebAdvisor which is covered in detail during orientation. Students may seek assistance from any campus admissions, registration, and records office. The dates
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for registration are published in the college operational calendar in the front of this publication, and on the HCC Website.

HCC may withhold registration privileges from students who have unpaid fees; who have overdue student loans; who have overdue library materials, audiovisual equipment, or physical education equipment; who have failed to provide transcripts or other documents required for admission purposes; and who have been disqualified for academic or disciplinary reasons.

Audit Registration

Students who have been admitted to HCC but who wish to take courses without receiving credit may register as audit students. The following guidelines apply:

• Students must make the choice to audit when they register.
• Students may change from audit to credit or credit to audit only during the drop/add period.
• Fees for audit and credit courses are the same.
• Students should confirm their audit status with the instructor on the first class date.
• Students auditing classes are not eligible to receive veterans’ benefits or financial aid for those classes.
• Students receiving senior citizen fee waivers are registered as auditing students.
• Students auditing classes must meet all course prerequisites including appropriate test scores.
• College preparatory courses follow state-mandated guidelines and requirements. Auditing these classes might not be an available option. (For details, see the college preparatory section in this catalog.)
• Attendance is optional.

Course Load and Enrollment Status

All courses carry a specified number of credits. The unit of credit is the semester hour. Courses requiring laboratory work or skill practice may meet for more minutes each week than the credits they confer.

The college strongly recommends that students enrolled for 12 or more credits limit their employment to a maximum of 20 hours per week.

Enrollment status can change during a term. For example, if a student initially registers as full-time and withdraws from a course during a term, the student’s course load might fall below 12 credits. The student’s enrollment status will be reduced to less than full-time from that point until the end of the term.

Registering as a full-time, three-quarter, or half-time student can affect eligibility for financial aid, veterans’ benefits, scholarships, insurance benefits and international student visas. Students receiving financial aid should speak with a financial aid specialist about the enrollment requirements for receiving aid.

If students request in writing to the office of admissions, registration, and records, they will provide verification of enrollment to employers, insurance agencies, and others. For courses that do not coincide with the Board of Trustees’ approved beginning and ending dates of a fall, spring or summer term, course load and enrollment verifications will be based upon the term in which the course begins, regardless of the actual meeting dates.

Enrollment status is based on the following course-load criteria:

- **Full-time:** taking 12 or more credit hours during a term.
- **Three-quarter-time:** taking nine to 11 credit hours during the term.
- **Half-time:** taking six to eight credit hours during the term.
- **Less than half-time:** taking five or less credit hours during the term.

Change of Academic Program

Students who are changing their program code and who are receiving Financial Aid, Veteran’s Benefits and/or are enrolled as an International student, must check with the necessary departments to be sure their benefits will not be affected before making the change. If the current semester has begun, the change of program will be effective the following semester.

Course Adjustment Drop and Add

Schedule adjustments must be made during the drop/add period. Students should check their class schedule on WebAdvisor for the drop/add and withdrawal dates for each course.

**IMPORTANT:** If students stop attending a course but fail to officially drop or withdraw from the course, they will not be relieved of the financial obligation, and they might receive a failing grade.

Withdrawal Policy

Students may officially withdraw from one or all courses prior to the course withdrawal deadline date for each. The withdrawal deadlines are on the student schedule in WebAdvisor. Students who officially withdraw are issued a “W” grade. A student may withdraw using WebAdvisor or visit a campus AR&R department to complete this process.

**IMPORTANT:** Withdrawing from a course or courses may affect enrollment status and eligibility for athletics, financial assistance, veteran’s benefits, international student visas, and benefits received from other federal agencies.

If students do not officially withdraw by the deadline, the instructor must assign a letter grade other than “W” to the grade report. If students have serious extenuating circumstances, they may petition the appropriate campus dean of student services for a late withdrawal. Students who officially withdraw from a class may not continue attending that class.

Instructors report non-attendance to the office of admissions, registration, and records, and an administrative withdrawal is initiated. The college will notify students whom the faculty has recommended, and the students will...
be given an opportunity to appeal the instructor-initiated withdrawal.

Students may attempt a course only three times (including original grades, repeat grades, and withdrawals). Through the academic appeals process, students with significant extenuating circumstances may petition for a fourth attempt. To begin the academic appeals process, students must contact the appropriate campus dean of student services. All grades from the third and any subsequent attempts will be included in the grade point average calculation.

Students must pay the full cost of instruction (equal to out-of-state fees) for credit classes they attempt a third time and any additional times. If students have serious extenuating circumstances, they may petition the appropriate campus dean of student services for a one-time exemption from paying the full cost of instruction.

**Acceleration Programs**

**Advanced Placement (AP)**

HCC awards college credit for scores of three, four, or five on the College Board Advanced Placement Program examinations given at high schools each May. Once credit is awarded, the student may not repeat the course for a letter grade. No credit will be awarded to students who have previously been awarded CLEP or regular college credit for the same course.

* NOTE: To see course equivalencies and related information, refer to www.floridashines.org.

**Certified Administrative Professional**

HCC will award 12 semester hours of credit to students who have passed the Certified Administrative Professional exam and earned the designation “CAP.” (For further information, contact the appropriate campus academic dean or the Director of Technical Programs.)

**College Level Examination Program (CLEP)**

CLEP provides an opportunity for those who have achieved a college level of education outside the classroom to demonstrate their achievement through testing and to earn college credit.

The advising and counseling staff can assist a student in determining which CLEP examination to attempt. CLEP tests are given at the Dale Mabry and Brandon Test Centers on the published dates. Applications are available at any HCC campus.

Students may earn up to 45 semester hours. The grade of satisfactory “S” is awarded for CLEP credit earned. Once credit is awarded, the student may not repeat the course for a letter grade.

NOTE: A student who is currently enrolled in a course is not eligible for CLEP credit for that course. A student who has completed a course and the grade earned was a “D” or an “F” is eligible for CLEP credit in a subsequent term. A student who has withdrawn or dropped a course is eligible for CLEP credit the following semester.

* NOTE: To see course equivalencies and related information, refer to www.floridashines.org.

**Credit-by-Examination**

Students may earn credit in approved courses by earning “C” or better on the appropriate HCC examination. Exams are given on dates published in the college’s annual calendar. Credit awarded by examination becomes part of the student’s permanent record, and the grade earned on the examination is used in calculating students’ cumulative GPAs.

A student must obtain approval from the appropriate campus academic dean to take credit-by-examination. In addition to a $20 non-refundable examination fee, a student who passes the examination will be required to pay a per-credit hour processing fee. A student may obtain the required forms and additional information through the appropriate campus academic dean. A student may not retake a credit-by-exam if a grade of “C” or better has been earned on a previous exam.

A student is not eligible to attempt credit-by-examination for any courses in which the student is currently enrolled. A student who has completed a course and earning a grade of “D” or “F” is eligible to repeat it through credit-by-examination. Grades for courses repeated through credit-by-examination are recorded in the same way as courses repeated through class attendance.

NOTE: Credit earned through credit-by-examination may not be counted toward the requirement that students complete at least 25% of the credit hours applicable to a degree in residence at the college.

**DANTES**

A student may earn credits for State designated courses by successfully completing Defense Activity for Non-Traditional Education Support (DANTES) examinations. Once credit is awarded, the student may not repeat the course for a letter grade. No credit is awarded if credit for the same course has already been earned.

* NOTE: To see course equivalencies and related information, refer to www.floridashines.org.

**Dual Enrollment**

HCC awards credits for in-state dual enrollment courses (courses which are granted simultaneous credit for both high school and college). These credits are awarded as general education, elective, and/or discipline credits. Dual enrollment courses taken out of state will be evaluated on a course-by-course basis. Dual enrollment courses will not count as excess hours in the 60-hour requirement of an AA or AS degree.

* NOTE: To see course equivalencies and related information, refer to www.floridashines.org.
Experiential Credit

The college provides for the award of experiential credit in a limited number of technical programs: Nursing LPN-RN transition option; Emergency Medical Services; Optical Management Technology; Radiography-ARRT option; and Industrial Management Technology. Students in these programs who provide documentation verifying licensure and/or certification within the appropriate field of study will be awarded credit. Students must obtain approval from the appropriate campus academic dean and pay a processing fee for each request.

HCC awards experiential credit in the following programs to students who meet the appropriate criteria:

- **Industrial Management Program Enrollees**
  - Controls Analyst
  - Lineman Training
  - Field Engineering
  - Substation Electrician
  - Plant Electrician
  Students should obtain the experiential credit form from the appropriate campus academic dean, who will assist in completing and processing the form.

- **Nursing Program Enrollees**
  Applicants for the LPN-RN transition program must have the following: a valid, current Florida LPN license; current CPR basic life support for health care providers; an official transcript from their LPN program; and 6 months full-time employment as an LPN during the past three years. Graduates from Erwin Vocational Technical Center are eligible for articulation credit in lieu of experiential credit.

- **Optical Management Associate Degree Program Enrollees**
  Students who have earned at least 15 credit hours in optical management courses who provide the college with documentation verifying they hold opticianry licensure will be awarded 12 credit hours toward an associate in applied science degree in Optical Management Technology. These credits are also applicable to the Emergency Medical Services Associate Degree Program. No credit will be awarded for advanced cardiac life support (EMS 2551C).

- **International Baccalaureate**
  The International Baccalaureate (IB) Diploma Program is a rigorous two-year, pre-university liberal arts program of study for highly motivated, academically oriented secondary students. The IB Diploma is awarded only to students who meet curricular, service, and thesis requirements and score at the prescribed level on internationally standardized subject examinations. Through the IB program, students may be awarded up to 30 credit hours. No grades will be assigned to credits awarded through the IB Program. Students will not receive credit for IB courses that duplicate credit awarded for courses attended at HCC or credit that was awarded through other accelerated programs, (i.e., AP, CLEP, credit by examination, etc.). To determine eligibility for IB credit, the student should contact any HCC campus advisor or counselor.

*NOTE: To see course equivalencies and related information, refer to www.floridashines.org.

Military Credit

HCC awards credit for non-credit military training and education as specified and validated by the American Council on Education (ACE).

Active duty military students MUST submit their Joint Service or Community College of the Air Force (CCAF) transcript for evaluation and assignment of all possible military credits towards their degree. This is not optional, but required by the Department of Defense Memorandum of Understanding for college tuition assistance. If not done within their first semester (60 days per the MOU), they will not be eligible for further tuition assistance until evaluated and reflected in the student degree plan.

Financial Information

**TUITION AND FEES ARE SUBJECT TO CHANGE WITH THE APPROVAL OF THE BOARD OF TRUSTEES AND THE STATE LEGISLATURE.**

Except for students who have HCC fee waivers, all students must pay the applicable fees. All fees must be paid by the payment deadline or you risk being de-registered from all of your classes. All fees are due and payable in full by the payment due date as published in the student calendar of important dates. If you stop attending a course but fail to officially drop or withdraw from the course, you will not be relieved of the financial obligation. Payments can be made through WebAdvisor, HCC’s online Web registration system, using a credit card. Payments may also be paid at any of the campus bursar’s office using cash, cashier check, money order, and personal check.
Credit Courses:

Florida Residents (In-State)*

<table>
<thead>
<tr>
<th>Fee Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Tuition</td>
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<tr>
<td>Access Fee</td>
<td>$54</td>
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<tr>
<td>Capital Improvement Fee</td>
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<td>Student Activity Fee</td>
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<tr>
<td>Student Financial Aid Fee**</td>
<td>$4.03</td>
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<tr>
<td>Technology</td>
<td>$3.91</td>
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<td>** Total per Credit Hour</td>
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Non-Florida Residents (Out-of-State)

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<thead>
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<th>Fee Description</th>
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<td>Technology</td>
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<td>** Total per Credit Hour</td>
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* See residency requirements in this section.

** Allocated to the HCC Scholarship Fund as approved by the state legislature.

Non-Credit Courses (Postsecondary Adult Vocational):

Per Credit Hour Equivalent

Florida Residents (In-State)

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<td>Capital Improvement Fee</td>
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<td>Technology</td>
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<tr>
<td>** Total per Credit Hour</td>
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Non-Florida Resident (Out-of-State)

<table>
<thead>
<tr>
<th>Fee Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
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<td>$71.51</td>
</tr>
<tr>
<td>Access Fee</td>
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<tr>
<td>Capital Improvement Fee</td>
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<td>Student Financial Aid Fee**</td>
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<td>Technology</td>
<td>$15.63</td>
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<tr>
<td>** Total per Credit Hour</td>
<td>$147.78</td>
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Diploma and Vocational Preparatory

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<td>Access Fee</td>
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Special Fees

For some courses special fees may be required to cover supplies, materials, equipment, and instruction of facilities.

Recreation and Leisure Courses

Fees for all recreation and leisure courses are set to recover 100 percent of the cost of the courses.

Fees may be adjusted when other community agencies contribute resources or when courses require special facilities, equipment and/or personnel.

Notification of Social Security Number (SSN) Collection and Usage

The HCC financial services office uses student social security numbers to report information to the Internal Revenue Service (IRS) via 1098T, the Florida Prepaid Tuition Plan, third parties paying for tuition and fees on behalf of the student, reporting information to collection agencies, and reports as required by the state and federal government.

Online Payments Using Visa, MasterCard, American Express, Discover or Electronic Check

Students may pay fees online. Log onto www.hccfl.edu and click on WebAdvisor.

Payments by Check

Personal checks will be accepted for the payment of tuition and fees. Checks must be payable to Hillsborough Community College and include the maker of the check’s full name, address, home and work phone, maker’s driver’s license number and state, and student ID number.
If a check is returned for any reason by the college’s bank:
• the student will be charged a $30.00 fee,
• the student’s file will be placed in a hold status, and
• any returned check(s) will be referred to the State Attorney’s office or the college’s collection agency as appropriate. The student is responsible for any collection fees associated with returned checks.
• No additional personal checks will be accepted.

**Tuition Installment Plan (TIPS)**

To help meet a student’s educational expenses, Hillsborough Community College provides the tuition payment plan, (TIPS). TIPS allows students to pay tuition monthly. The earlier you enroll in the TIPS plan, the more payment options are available. You may enroll in the TIPS plan or review the available payment plans online at [https://www.hccfl.edu/paying-college/payment-information/tuition-installment-plan-tips](https://www.hccfl.edu/paying-college/payment-information/tuition-installment-plan-tips). If there is a balance as a result of the student cancelling a TIPS contract, the balance will be the student’s responsibility. In addition, access to current term courses may be restricted.

TIPS is administered for HCC by FACTS/Nelnet Business Solutions, Lincoln, NE.

**Payment by Third Party Sponsors**

If employers or other agencies are paying for student tuition and fees through direct payment to the college, students should present original letters of authorization signed by third party sponsors to the bursar office. HCC will not accept letters of authorization that are contingent upon students achieving a passing grade, completing courses or letters that state the employees will be reimbursed for their fees. Any fees that remain unpaid by third party sponsors will be the students’ responsibility.

**Unpaid Financial Obligations**

If students have an outstanding financial obligation to HCC, they may not be permitted to access current term courses or register for future classes until the balance is paid in full. In addition, transcripts and grades may be withheld until the obligation is satisfied. Payment may be made online through Hawknet or at any of the bursar offices until the account is referred to a collection agency.

If the unpaid obligation is referred to a collection agency, the student will be responsible for paying the amounts owed to the college and any collection fees assessed by the collection agency.

If an account has been referred to a collection agency, the student should contact the collection agency to make payment.

**Title IV Federal Repayment Guidelines**

Students receiving Federal Title IV financial aid such as Pell, FSEOG, Direct and Plus loans, must attend classes through at least 60 percent of the term. Failure to do so may require pay back of all or a portion of the Title IV funds received to the federal government and or HCC. This will result in delinquent student accounts and will be processed accordingly.

**Refund of Fees**

Tuition and fees are refunded to students who drop courses during the registration drop/add periods. The drop/add periods are located on HCC’s website published under “My HCC” and listed in the operational calendar for the current year.

Students enrolled in courses that do not follow a regular term calendar will find this information on their schedules listed on WebAdvisor.

Outstanding financial obligations to HCC are deducted from refunds.

**No refunds will be made to students who:**

- are administratively withdrawn for disciplinary reasons.
- are administratively withdrawn (WN) for non-attendance.
- withdraw from class after the designated drop/add refund deadline.

**Student Refunds through BankMobile**

Hillsborough Community College has partnered with BankMobile for managing refunds from HCC. Each registered student will be mailed an enrollment packet from BankMobile to the current mailing address on file at the college.

Students must verify the accuracy of their address either online through WebAdvisor or at the admissions, records and registration window.

Students are responsible for the replacement cost of the card if the re-issuance is due to an incorrect address. The cost to replace a BankMobile card is $10.00.

Although, a refund may not be currently expected, a refund may be issued in the future.

For faster access to funds, a student may choose to have refunds deposited directly into a personal bank account. To choose the method of how to receive a refund go to [www.bankmobilevibe.com](http://www.bankmobilevibe.com).

**Waivers**

There are various waivers for tuition and fees as listed in [Florida Statute 1009.26](https://www.sunysb.edu/leadership/legislativeaffairs/statutes1000.pdf).

**Senior Citizens Waiver**

Florida residents age 60 and over are eligible to enroll in courses at HCC on the first day of class on a space-available basis. There are no registration, application or related fees. If the same course is taken more than twice, the student is responsible for paying an out-of-state fee as part of registration. No academic credit is given for these courses. If academic credit is sought, all applicable fees must be paid.

In order to register as a senior citizen using a fee waiver, an applicant must:
- Complete an HCC application for admission and present this form to the campus admissions office.
- Complete a registration form and present this form to the campus admissions office.
• Provide proof of age
• Complete a fee waiver form and present it to the campus bursar’s office.

For further information regarding tuition waivers for senior citizens, visit the HCC website at www.hccfl.edu and for residency information log onto www.floridashines.org.

Exemptions

There are various exemptions for tuition and fees as listed in Florida Statute 1009.25.

Financial Aid

Financial aid is any scholarship, grant, loan, or employment (or a combination thereof) designed to help students meet their college expenses. The amount and types of financial aid given are based on state, federal and HCC guidelines. To be eligible for financial aid, students must be degree seeking, meet enrollment requirements, submit official high school transcripts showing graduation dates or official GED test scores, and make satisfactory academic progress.

Grants and scholarships are considered gifts and need not be repaid. Low-interest loans are usually repaid over an extended period of time after the student leaves college. Employment refers to an hourly wage paid to the student for work performed.

Federal Financial Aid

Federal Pell Grant

This grant, based upon financial need, does not have to be repaid. A valid Student Aid Report (SAR) must be electronically received by HCC. Appropriate income tax returns and other financial aid forms must be submitted if the SAR indicates that the student’s application has been selected for verification. Awards are based on enrollment on the published Pell census date.

Federal Supplemental Educational Opportunity Grant (FSEOG)

This grant, based upon exceptional financial need, does not have to be repaid. Amounts vary from $200 to $1,500 per year. A minimum of six credit hours is required.

Federal Work-Study (FWS)

Students are paid an hourly wage for working on campus for up to 20 hours per week at the approved Board of Trustees Salary Schedule. Students can use their earnings to help defray college costs. Students must complete an I-9 Form when employed. A minimum of six Title IV credit hours is required. Refer to the “Earn While You Learn” section for more details.

Federal Work-Study (Community Service Assignments)

Students may have opportunities to work on and off campus at community service designated locations. The assignments vary and are contingent upon the skill level of students. Refer to the “Earn While You Learn” section for more details.

Direct Federal Subsidized Loan

This is a long-term repayable loan. First-year students can borrow up to $3,500 per year. Second-year students can borrow up to $4,500 per year. Second year students include those students who have completed 31 credit hours toward their degree, not including college preparatory credits. HCC will determine the amount for which a student is eligible. Payment of this loan does not begin until the student has been out of school for six months or drops below half-time status. A minimum enrollment of six credit hours per term is required. Visit www.studentloans.gov for the most up-to-date interest rates.

Direct Federal Unsubsidized Loan

This is a long-term loan that can be awarded in addition to or as a substitute for the Direct Federal Subsidized Loan. Interest begins accruing immediately; however, payments may be deferred while the student is in school. Dependent students who qualify may borrow up to $2,000. Independent students may borrow up to $9,500 (if fewer than 31 credit hours earned) or $10,500 (if over 31 credit hours earned). A minimum enrollment of six credit hours per term is required. For detailed information regarding loan amounts, students should contact a campus financial aid office. Visit www.studentloans.gov for the most up-to-date interest rates.

Direct Federal PLUS Loan

This program enables parents who do not have an adverse credit history to borrow funds to pay for the education of dependent children. Interest accrues while the student attends school. Repayment begins immediately. Parents can borrow up to the cost of education, minus any
other financial aid. The student must enroll in a minimum of six credit hours per term.

Parents may process a Direct Federal PLUS loan application online at www.studentloans.gov. Click on the “Borrower Log-In” link and follow the instructions as noted. Visit www.studentloans.gov for the most up-to-date interest rates.

Loan Entrance and Exit Counseling

For students borrowing an entrance counseling session must be completed. Students are required to complete the loan exit counseling session during the last semester of enrollment or at the point of no longer attending at least a half-time (six credit hours) basis.

Earn While You Learn
Federal College Work Study

The Federal Work Study Program (FWS) offers excellent opportunities for students with financial need to gain meaningful work experience while earning money to help pay their educational expenses. FWS award recipients are granted a designated amount of money, based upon their individual need and the availability of funds. It is from that allocation that the student’s wages are paid bi-weekly at the hourly rate set by the college’s Board of Trustees. Students work up to 20 hours per week, around their class schedules, until they have earned the full amount of their FWS Grant awards.

Most job assignments are on-campus opportunities. Students may also work off-campus at “community service” locations. Community service jobs are assigned with federal, state, or local public agencies or organizations. These jobs are ones which provide literacy activities in a family literacy project for families with preschool age children, services to students with disabilities, solutions to environmental concerns, and numerous other services designed to improve the quality of life for community residents, particularly low-income individuals. Community service positions afford FWS workers a bonus of the joy that comes from helping others.

State Financial Aid Requirements

To apply for state financial aid, students must:

• Be a permanent resident of Florida for at least one year.
• Be accepted at HCC as a degree-seeking undergraduate student. Students working towards a certificate are eligible for state financial aid.
• Florida Vocational Gold Seal Scholarship recipients are only eligible for Technical Degree Educational programs (AS, CCC, and PSAV).
• Be enrolled for a minimum of six credit hours each semester.
• Be U.S. citizen, national, or eligible non-citizen.
• Have a valid high school diploma or GED.
• Not have defaulted on any educational loans or owe a repayment on any educational loans or grants.
• Meet selective service requirements.
• Be in good academic standing and make satisfactory progress.

State Financial Aid Programs

Listed below are some of the state financial aid programs. For information on these and other state financial aid programs, students should call any campus financial aid office.

Florida Bright Futures Scholarship

Florida Bright Futures is a state funded, merit based scholarship program. Eligible students must enroll for a minimum of 6 credit hours per term. The scholarship program does not pay for preparatory classes.

Bright Futures Scholarship pays at a fixed per credit hour rate.

• Florida Academic scholarship pays 100% of tuition and approved fees and can be used in the Fall, Spring, and Summer semesters. This scholarship also provides a $300.00 book and educational expenses stipend in the Fall and Spring semesters.
• Florida Medallion scholarship pays 75% of tuition and approved fees.
• Florida Vocational Gold Seal pays $48.00 per credit hour.
• Amounts are subject to change during the 2019 State of Florida legislative session. Students will be notified of any revisions.
• Complete the Free Application for Federal Student Aid if you need additional funds to help pay for college. Visit www.fafsa.ed.gov.

Bright Futures Scholarship will not pay for lab fees.

• The student or other sources of financial aid will have to pay for lab fees assessed for classes enrolled.

Bright Futures Scholarship will not pay for Dropped or Withdrawn classes.

• Students will be required to repay the cost for any course dropped or withdrawn.
• Repayment for the cost of dropped or withdrawn courses is required to renew a Bright Futures award for a subsequent academic year.
• Students with documented extenuating circumstances may seek an appeal to this payment requirement.
• Contact your campus Financial Aid Office to inquire about:
  • The amount you will owe if you drop or withdraw from a class; and
  • If you qualify for an appeal waiving your obligation to repay for funds owed.

Renewal criteria revised.

• Bright Futures students are required to complete the number of credit hours paid by the scholarship program. For example:
if you received a Bright Futures scholarship for the semester based upon full-time enrollment, you are required to complete at least 12 credit hours.

- if your term enrollment is 9 - 11 credit hours, you must complete the minimum of 9 credit hours.
- if your term enrollment is 6 – 8 credit hours, you must complete the minimum of 6 credit hours.

**Restoration options extended.**

- Students who do not meet the minimum renewal credit hours may regain their eligibility by completing the outstanding credit hours in the Summer Term 2020.
- Review the State of Florida’s website for additional information, www.floridastudentfinancialaid.org/SSFAD/bf

**Florida Student Assistance Grant**

Florida Student Assistant Grant (FSAG) is a grant of between $200 and $1,600 annually which is not repayable. Application priority deadline is June 19, 2019. To be eligible to receive a grant, students must enroll for a minimum of six credit hours per term and have processed a FAFSA application.

**First Generation Matching Grant Program**

This is a need-based program that provides financial aid funds to Florida undergraduate students who demonstrate financial need and whose parents have not earned a baccalaureate degree.

To receive this grant, the student must complete the annual FAFSA application and indicate the last level of education completed by the parent as high school.

Currently, distribution of this award is at $500 per term. The financial aid office implemented the following priorities for selecting students for this award:

- Students who have a cumulative grade point average of 3.0 or better.
- Students who are enrolled in college full-time.
- Students who have met all other state requirements for financial aid.

Students should contact their campus financial aid office for additional information.

**Scholarships**

**HCC Scholarships**

HCC offers scholarships in a number of areas. Students may apply directly to the HCC department that has the responsibility for awarding the scholarship. Specific criteria are available in the campus offices of financial aid, or you can contact the HCC Foundation at foundation@hccfl.edu for more information regarding the following scholarships:

- Art Scholarships
- Athletic Scholarships
- Board of Trustees Scholarships

- Child Care Award (off-campus)
- Child Care Award (on-campus)
- Dance Scholarships
- Drama Scholarships
- HCC Need Scholarships
- HOPE Scholarships
- Music Scholarships
- Presidential Scholarships
- Presidential Honors Scholarships
- Publications Scholarships
- Student Support Services Need & Incentive Scholarships
- Student with Disabilities Scholarships

**Procedures for Applying**

Each HCC scholarship recipient must have processed a Free Application for Federal Student Aid (FAFSA) application. This requirement is set forth by the State of Florida Department of Education. Although students may qualify for a merit-based scholarship, the completion of the FAFSA is required. Students may complete the FAFSA application by following the instructions noted under the “How to Apply” section.

Each scholarship program has its own application procedures. The campus financial aid offices have information regarding each of HCC’s scholarship programs.

**Student Eligibility Standards**

- Demonstrate financial need or exhibit specific skills
- Enroll for the appropriate number of credit hours
- Maintain satisfactory academic progress

**Criteria for Selection**

Selection criteria for each scholarship program is established by HCC. Most HCC scholarships are awarded according to need or skills.

- Criteria for Determining the Amount of the Award
- Based on appropriate recommendation or
- Student’s unmet need

**HCC Foundation Scholarships**

Information regarding HCC Foundation Scholarships is available in any campus office of counseling and advising or online at https://hccfoundation.com/donate/scholarships/hccfoundationscholarships/

**Other Scholarships**

Information regarding other scholarships is available in the campus financial aid, counseling and advising offices and on the HCC website.

Students are urged to apply for external scholarships. A variety of local and national clubs and organizations offer financial aid to students meeting certain criteria.
How to Apply for Financial Assistance

Students seeking financial assistance must apply each academic year. To apply for the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work-Study, Florida Student Assistance Grant and certain college scholarships, the following forms must be completed:

Free Application for Federal Student Aid (FAFSA):

Students are strongly advised to complete the FAFSA application electronically by accessing the Department of Education’s financial aid website: www.fafsa.ed.gov. Students completing the FAFSA online may receive their results (Student Aid Report) within two weeks. If students do not have a computer at home, they may use computers at the following public locations: Hillsborough County Public Libraries, HCC Computer Labs, and HCC Libraries. Students must list HCC’s school code, 007870, on their FAFSA application in order for the college to receive their results and Student Aid Report electronically.

Student Aid Report (SAR):

An official SAR is sent to all students who submit the Free Application for Federal Student Aid. This SAR contains information about a student’s Pell Grant eligibility as determined by the U.S. Department of Education. The college’s financial aid office reads the results of the application electronically as long as the student listed HCC’s school code on the FAFSA application.

Application Deadline Dates:

Free Application for Federal Student Aid (FAFSA): The student should complete the FAFSA application as soon as possible after October 1 and no later than six weeks prior to the beginning of the term. The last day to complete the FAFSA application for the 2019-2020 academic year is June 30, 2020.

Because financial aid is not always available at the beginning of a semester for those who do not process by the suggested deadline date, students should budget their money to cover the cost of tuition, fees and books until they receive their funds. As an alternative, students may consider TIPS (Tuition Installment Plans) at https://www.hccfl.edu/paying-college/payment-information/tuition-installment-plan-tips.

Students are required to complete a 2019-2020 FAFSA application and submit all requested financial aid forms by June 19, 2019 in order to have their financial aid awards processed by the first day of fall 2019 classes. Students applying for financial aid or submitting financial aid forms after June 19, 2019 will be expected to pay for their classes or sign-up for TIPS (Tuition Installment Plans). Students that are eligible for financial aid may receive a refund for the payment of tuition and fees once financial aid is awarded.

How Financial Aid is Awarded and Distributed

Students declared eligible for financial aid will receive an award notice from HCC’s financial aid office.

Students awarded Federal Pell Grants, Federal Supplemental Educational Opportunity Grants, Direct Federal subsidized or unsubsidized loans, Florida Bright Futures Scholarships or institutional scholarships may use them to pay for the cost of tuition and fees at registration. Prior to the last day of drop/add of the semester, Pell Grant and subsidized and unsubsidized Direct Federal loan recipients who qualify can go directly to any HCC campus bookstore and purchase books and supplies against their award balance. Maximum book charges are contingent upon the available balance and credit hours enrolled.

After deductions for tuition, fees and book charges are made by HCC, the remaining balance in the students’ account is forwarded to them via their BankMobile selection or other delivery method as selected by the student. For students awarded on or before the semester’s drop/add date, the remaining balance will be available 14 days from the date the college credits their account. For students awarded after the semester’s drop/add date, the remaining balance will be available 14 days from the date the college credits their account.

Students who are employed under the Federal Work-Study Program will receive bi-weekly checks from the office in which they work.

What are the required credit hours?

<table>
<thead>
<tr>
<th>Financial Aid Programs</th>
<th>Minimum Hours Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Pell Grant</td>
<td>Contingent upon eligibility</td>
</tr>
<tr>
<td>FSEOG</td>
<td>6</td>
</tr>
<tr>
<td>Direct Federal Loans</td>
<td>6</td>
</tr>
<tr>
<td>Federal Work Study</td>
<td>6</td>
</tr>
<tr>
<td>First Generation Matching Grant</td>
<td>6-12</td>
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<tr>
<td>Florida Bright Futures</td>
<td>6</td>
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<tr>
<td>Florida Student Assistance Grant (FSAG)</td>
<td>6</td>
</tr>
<tr>
<td>HCC’s Presidential Scholarship</td>
<td>12</td>
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<tr>
<td>HCC’s Board of Trustees Scholarship</td>
<td>12</td>
</tr>
<tr>
<td>HCC’s Incentive &amp; Need Based Scholarship</td>
<td>6</td>
</tr>
<tr>
<td>HCC’s Athletic Scholarships</td>
<td>12</td>
</tr>
</tbody>
</table>

How Will Students Know the Awarding Amount(s)?

Once the financial aid office receives the results of the student’s FAFSA and other documents requested, the stu-
dent will receive an official Award Notification via Hawk-mail. This document will direct them to WebAdvisor where they may check the specific type and the amount of financial aid the student is qualified to receive.

Student may check their financial aid award status on WebAdvisor.

Attention:

Withdrawing or dropping courses may have an impact on financial aid. Students may have to repay a percentage of financial aid, and their continued eligibility may be impacted. Prior to dropping or withdrawing from any class, students should consult a campus financial aid office to discuss how this may affect their financial aid.

Return of Title IV Funds

If students receive Title IV, Federal Student Financial Assistance, and if they withdraw, drop out, take a leave of absence, or are expelled prior to completing 60 percent of a semester for which they have been charged, the college must recalculate their eligibility for Title IV funds.

The formula for recalculating eligibility utilizes the following concepts:

- Percent of aid earned, and
- Percent of aid unearned
- The percent earned equals the days the student completed divided by the total days in the enrollment period.
- The percent unearned equals 100 percent minus the percent earned.
- The amount of Title IV Aid earned equals the percent earned (A) multiplied by the student’s Title IV Aid.
- The amount of Title IV Aid unearned equals the percent unearned (B) multiplied by the student’s Title IV Aid.
- The amount the college must return equals the total institutional charges multiplied by the percent unearned (B).

If the college returns the Title IV funds that were credited to a student’s account, it will create a charge on the student account for which the student is responsible.

IMPORTANT: The student might also be responsible for paying back to the federal programs any unearned portion of the Title IV Aid that was disbursed directly to the student.

F. The amount the student must return to the federal programs equals the amount of Title IV Aid unearned - the amount returned by the college.

NOTE: Students are obligated to pay the college for any funds returned to the U.S. Department of Education. Students receiving financial aid are advised not to withdraw from any classes prior to discussing how this may impact financial aid. The financial aid office will notify the student with the amount owed.

Standards of Academic Progress

In order to remain eligible to receive Title IV, Student Financial Assistance (SFA) program funds while attending HCC, students must make steady progress toward their program of study. This requirement is known as the Satisfactory Academic Progress (SAP) requirement.

The SAP policy has three standards that a student must meet in order to remain eligible to receive Title IV, SFA - a qualitative standard, a quantitative standard, and a time standard. At HCC the qualitative standard requires recipients to maintain a cumulative GPA of 2.0. The quantitative standard requires recipients to satisfactorily complete 67 percent of all credit hours attempted. The time standard requires recipients to complete their academic program by the time they have attempted 150 percent of the credits required in their programs. Standards of progress evaluations occur at the end each semester.

Students who fail to meet the SAP standards will be placed on warning for one term. If after one term students are not making satisfactory progress, they will lose their eligibility for financial assistance. Students over 150% of attempted credit hours are immediately placed on suspension. In order to regain eligibility, students must meet the satisfactory progress standards or appeal for reinstatement.

Financial aid pays tuition and fees for the following:

All associate in arts and associate in science programs.

College Credit Certificates

- Business Management
- Computer Programming
- Drafting
- Human Resource Management
- Internet Services Technology Web Development Specialist - Designer
- Internet Services Technology Web Development Specialist - Developer
- Medical Information Coder
- Medical Office Management
- Office Management
- Radiation Therapy Specialist

Postsecondary Adult Vocational (PSAV)

- Auto/Collision Repair and Refinishing
- Dental Assisting
- Law Enforcement
- Educator Preparation Institute (EPI)
- Diesel Engine Service Technology
- Welding Technology

Financial Aid Offices

Each HCC campus has a financial aid office. Information about financial aid can be obtained from any of them. Normal working hours are as follows: Monday and Tuesday from 8:00 a.m. until 7:00 p.m. and Wednesday, Thursday and Friday from 8:00 a.m. until 4:30pm.
Veterans’ Benefits

Eligible veterans pursuing an associate in arts or an associate in science degree may use veterans’ educational benefits at HCC. Eligible chapters are Chapter 30 (Montgomery Bill), Chapter 31 (Vocational), Chapter 32 (Post-Vietnam Veterans Education Assistance Program), Chapter 35 (Dependants Educational Assistance), and Chapter 1606 (Selected Reserve), and Chapter 1607 (REAP), and Chapter 33 (Post 911 GI Bill).

To be eligible, veterans must have any discharge other than a dishonorable and must have served on active duty for a specified period. For additional information, veterans should contact any campus admissions, registration and records office or call the department of veterans’ affairs (DVA) toll free number 1-888-442-4551.

Deferrals

In accordance with Florida law and college policy, any eligible veteran or dependent wishing to pursue an approved program within the meaning of VA Chapter 30, 31, 32, 35, 1606, or 1607 will have, upon request, 60 days after the first day of classes to pay registration fees. One deferral per academic year is standard.

General Requirements

Veteran students must declare their final educational goals and choose their desired educational program when they apply for benefits. Benefits are paid only for courses applying to the students chosen program.

Veteran students must comply with attendance requirements established by instructors. If veterans withdraw, their last day of attendance will be reported to the Department of Veterans Affairs (DVA). HCC will notify the DVA of any changes in a student’s enrollment status.

Benefits are not paid for courses when non-punitive grades such as “W,” “N,” or “U” are received. An “I” grade (incomplete grade) that has not been removed by the end of the semester after the grade was given (excluding Summer Session) will be reported as a non-punitive grade.

Attendance

Criminal Justice Institute, Firefighter Academy and Autobody Collision Programs

Veteran students participating in the college’s Law Enforcement and Correctional Officer programs and Automotive Collision programs are encouraged to attend all class sessions. Veterans whose absences total more than 10 percent of the scheduled class sessions will be required to participate in counseling to determine if it is possible to make up the required coursework within a reasonable time frame. If it is determined the work cannot be completed within the time constraints, the students’ benefits will be terminated.

Paramedic and Emergency Medical Technician Programs

The Veterans Administration will be notified of unsatisfactory attendance at the point of the term that a veteran student accumulates three unexcused absences. The veteran student may not be recertified for veteran’s benefits until 30 days of satisfactory attendance (no more than two unexcused absences in the 30-day period) have elapsed.

Repeating Courses

Veterans’ benefits are not paid for courses in which students have already earned satisfactory grades. A “D” is considered satisfactory except when program requirements mandate a “C.”

Transcripts

Veteran students must have transcripts sent to HCC from each college previously attended. Students will not be certified for a second term until all official transcripts are received.

Benefit Levels for Standard Terms

Standard sessions are 16 weeks. Credit hours for benefits are:

- Full-time 12 hours
- Three-quarter-time 9 hours
- Half-time 6 hours

Students registered for less than half-time are eligible only for the direct cost of their courses. Students should see a VA Specialist about benefits for non-standard sessions.

Unsatisfactory Progress

Students receiving veterans’ benefits must maintain a cumulative GPA of 2.0. Veterans (except Paramedic and Emergency Medical Technician Programs) with less than a 2.0 GPA will be given two probationary terms to bring their GPA up to a 2.0. Veteran students who fail to raise their GPA to 2.0 after two probationary terms will be reported to the DVA and benefits will be terminated. For those students in the Paramedic and Emergency Medical Technician Programs who fail to raise their GPA to 2.0 after one probationary term will be reported to the DVA and benefits will be terminated. These veterans will also be referred to an HCC counselor for reassessment of their academic goals.

Veterans who violate the student code of conduct will be reported to the DVA and their benefits will be terminated.

Veteran students who wish to seek reinstatement of benefits at HCC may see a counselor for assistance in petitioning the Department of Veterans’ Affairs. However, the DVA makes all decisions on reinstating benefits.

Academic Policies

Academic Year

HCC’s academic year consists of the Fall, Spring, and Summer terms. Faculty may make course materials available to students prior to the first official day of class. However, student participation, attendance, and work submitted before the first official day of class will not be counted for purposes of financial aid, grades, or material participation in the class until the first official day of class.
Attendance

Students are required to attend class regularly and punctually. If students miss classes, regardless of the cause, their opportunities for learning and academic success will be adversely affected.

The syllabus for each course contains the instructor’s attendance and grading requirements. It is the student’s responsibility to read the syllabus, comply with the instructor’s policies, and arrange to make up work missed because of absence or lateness.

If students stop attending class, they will be assigned a letter grade unless they complete and submit a withdrawal form by the deadline published in the current catalog and credit course schedule. Students receiving financial aid are advised to discuss the impact of not attending classes on their financial aid or veterans benefits.

Online Attendance

Federal regulations require online students not only to attend but also to participate in coursework each term to be eligible for federal financial aid. Hillsborough Community College verifies student attendance in accordance with this regulation.

In a distance education context, logging into an online class is not sufficient, by itself, to demonstrate attendance by the student. Students must establish a record of participation in academically related activities in order to comply with this requirement.

Academically related activities include, but are not limited to

- physically attending a class where there is an opportunity for direct interaction between the instructor and students;
- submitting an academic assignment;
- taking an exam, an interactive tutorial or computer-assisted instruction;
- attending and participating in an online study group that is assigned by the instructor;
- participating in an online discussion about academic matters or
- initiating contact with a faculty member to ask a question about the academic subject studied in the course.

Academically related activities DO NOT include activities where a student may be present, but not academically engaged, such as logging into an online class without active participation or participating in academic counseling or advisement session unrelated to a specific course assignment.

Students who have not established attendance/participation in online courses may have their federal financial aid eligibility adjusted.

Grading Policies

Grade Reports

Students may ask instructors about their academic progress throughout a term. Final grades may be viewed via WebAdvisor at the end of each term (see calendar). Only the final grade appears on the student’s transcript which is posted on the www.floridashines.org website. Grades are not mailed. HCC may withhold the grades of students for the following reasons:

- Unpaid fees
- Overdue loans
- Overdue library materials
- Overdue audiovisual or physical education materials and equipment
- Disciplinary action

Students whose grades are being withheld may appeal to the appropriate campus dean of student services or his/her designee.

Students called to active military duty will be permitted to drop their course(s) or make arrangements with faculty to complete academic requirements and receive final grades. To qualify, students must provide a copy of their active duty orders. Contact the campus advising or counseling office.

Grading

Students will be awarded letter grades for courses taken at HCC. Course grades will be awarded and recorded following the final class meeting (or its equivalent in the case of online course).

Grades used in computing GPA:

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

Grades not used in computing GPA:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU</td>
<td>Audit</td>
</tr>
<tr>
<td>AW</td>
<td>Administrative withdrawal</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>N</td>
<td>No credit</td>
</tr>
<tr>
<td>NR</td>
<td>Grade not reported by instructor</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
</tr>
<tr>
<td>WN</td>
<td>Withdrawal, non-attendance</td>
</tr>
</tbody>
</table>

Grade Point Average

Each letter grade has a point value. To determine grade point average (GPA), one multiplies the number of points for each grade earned times the number of the
course’s credits, adds the total grade-point values for all courses, then divides by the total number of credit hours.

A “B” (three points) in a three-credit course is worth nine points. An “A” (four points) in the same three-credit course is worth 12 points.

**GPA Example:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>3 cr.</td>
<td>Grade A (4 points)</td>
<td>= 12</td>
</tr>
<tr>
<td>CGS 1000</td>
<td>3 cr.</td>
<td>Grade C (2 points)</td>
<td>= 6</td>
</tr>
<tr>
<td>HUM 2210</td>
<td>3 cr.</td>
<td>Grade F (0 points)</td>
<td>= 0</td>
</tr>
<tr>
<td>PEM 1954</td>
<td>1 cr.</td>
<td>Grade B (3 points)</td>
<td>= 3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>10 cr.</strong></td>
<td><strong>Total Points</strong></td>
<td>= 21</td>
</tr>
</tbody>
</table>

Divide 21 points by 10 credits = 2.100 grade point average. A degree GPA of 2.0 or higher is required to receive an associate degree from HCC.

The following letter grades have special requirements:

**Audit** — awarded to students who enroll in credit classes for enrichment but not for credit. A change in enrollment from credit to audit or audit to credit can be made only during the designated schedule adjustment (drop/add) period.

**Administrative Withdrawal** — awarded by the college for reasons such as non-attendance, non-payment of fees, non-compliance with rules, or extenuating circumstances.

**Incomplete** — awarded only when requested by the students, approved by instructors and confirmed by the appropriate academic deans. “I” grades are given only when unforeseen circumstances prevent students from completing course requirements during the regular term. An “I” grade contract is agreed upon and signed by the student, instructor, and academic dean. Contracts include a list of the course requirements students must complete and the deadline by which the work must be completed. To be eligible for an “I,” students must have satisfactorily completed at least two-thirds of the course requirements. “I” grades must be removed before the end of the eighth week of the following term (excluding the summer term) or they will be changed to “F” grades on the students’ permanent records. Students should refer to the student services Important Calendar for Students.

**No Credit (N)** — “N” grades are awarded only in college preparatory courses. The “N” grade is awarded to students who attend class through the end of the term but who do not reach the level of skill or knowledge required to move on to the next course. Students who receive an “N” grade do not earn credits, and “N” grades are not included in calculating students’ cumulative GPAs. Students who receive “N” grades must repeat the courses during the following term.

**Grade Not Reported** — when instructors omit a grade, the notation “NR” is placed on transcripts.

**Withdrawal** — awarded to students who officially withdraw by the deadline.

**WN** — grades are initiated by faculty and awarded to students who have never attended class. The WN grade must be submitted following the first class meeting after the end of add/drop for the section. For online classes, the WN deadline is 5 days after the end of add/drop for the section. The student is financially responsible for cost of the course(s).

**Grade Forgiveness Policy**

Courses in which a “C” or better is earned cannot be repeated regardless of where they are completed. All course attempts will appear on the transcript. Courses in which a grade of “D” or “F” is earned may be repeated for credit, and only the most recent grade earned will be used to calculate the cumulative grade point average. A student who has completed a course and the grade earned was a “D” or an “F” is eligible for CLEP, AP, and/or credit-by-exam in a subsequent term.

**NOTE:** Some courses may be repeated for credit, i.e., JOU 1949. This means the grade and quality points earned in each attempt for this course will be included in the GPA computation. Grade forgiveness does not apply to a course that may be taken more than one time for credit. Check the course description to determine if a course may be repeated for credit.

Students may attempt a course only three times - including the first attempt, repeat grades, and withdrawals. Students attempting a course for the third time must pay the full cost of instruction (withdrawal from a course counts as an attempt). Students who have serious extenuating circumstances may petition the appropriate campus dean of student services for an exemption from paying the full cost of instruction. Permission for a fourth attempt will be granted only through the academic appeals process and will be granted only to students who can document major extenuating circumstances. Students who wish to begin the academic appeals process should contact the appropriate campus dean of student services. Grades for the third and all subsequent attempts will be included in calculating grade point averages.

**NOTE:** Some colleges and universities may not accept grades earned for repeated courses; some might use only the grades originally earned. Students receiving financial assistance of any type should speak with a financial aid counselor to ensure that any repeat attempts will qualify for aid.

**Dean’s List**

To earn placement on the Dean’s List, a student must earn a 3.5 or higher term GPA for 12 or more semester hours in the term of attendance.

**Honors**

Students who graduate with the specified HCC cumulative grade point averages will be recognized as distinguished graduates.
Degree Grade Point Average

| 3.50 – 3.79 | = | Honors |
| 3.80 – 3.99 | = | High Honors |
| 4.00 | = | Highest Honors |

An honors statement will be placed on the student’s transcripts and diploma.

**Academic Progress**

In order to have satisfactory academic standing, a student at Hillsborough Community College must maintain a cumulative grade point average of 2.0 “C.” Students may be required to take reduced hours per semester to improve their GPA. Insurance issues will not be a consideration. Only institutional GPA, including remedial coursework, would be included. Transfer GPA would not be included.

The four steps in the process are Academic Warning, Academic Probation, Academic Suspension, and Academic Dismissal.

**Academic Warning**

When a student’s cumulative GPA falls below 2.00, the student is placed on Warning and notified immediately by all available means. A registration hold is placed on the student’s record and the student must see a counselor to register. The student must maintain a term GPA of 2.00 or better thereafter. The student remains on warning until the cumulative GPA rises to 2.00 or better.

**Academic Probation**

If while on Warning, a student’s term GPA falls below 2.00, the student is placed on Probation and notified immediately by all available means. The registration hold remains, and the student must see a counselor to register. The student must maintain a term GPA of 2.00 or better thereafter. The student remains on probation until the cumulative GPA rises to 2.00 or better.

**Academic Suspension**

If while on Probation, a student’s term GPA falls below 2.00, the student is placed on Suspension and notified immediately by all available means. The registration hold remains, and the student may not register for a period of one term. Appeal of a Suspension will be ruled upon by the Academic Standards Committee. After the Suspension period, the student must first see a counselor, then petition the Academic Standards Committee to be re-admitted. If the petition is successful, the student returns in the status of Suspension, under the conditions stated above regarding return from a one-term suspension.

**Academic Grade Appeals**

Students must adhere to the standards of academic performance established in the course syllabi provided by their instructors. However, students are protected against prejudicial or capricious evaluation and may dispute an assigned grade by asking the instructor for reconsideration. If grades remain in dispute, students should contact the appropriate campus dean of student services. The dean of student services will direct students to the appropriate appeals procedure.

No grade will be changed without the approval of the instructor and the campus president. No consideration for grade changes will be given following one year after the grade has been awarded.

**Application for Degree and Transcripts**

**Application for Degree**

Students are requested to apply using the “Application for Graduation” option in WebAdvisor upon nearing graduation. Students who apply for graduation will have their diploma processed and mailed using the information in the HCC database.

**Auto-identification for Graduation and Reverse Transfer**

Students who do not apply for graduation but have met all graduation requirements may still have their graduation processed. HCC participates in a “reverse transfer” program. Students who do not complete their graduation requirements at HCC but complete them at a participating institution may still be graduated from their HCC program.

**Transcript Request**

To request an HCC transcript, follow the guidelines on the HCC website by going to https://www.hccfl.edu/admissions/ask-registrar/request-hcc-transcripts.

**Academic Support Services**

**Learning at Hillsborough Community College**

As an institution focused on student learning, Hillsborough Community College offers a variety of learning options to enhance its' strong traditional college programs.

**Academic Success Centers**

Each campus has an Academic Success Center (ASC). The ASCs provide learning environments, services, and resources designed to empower students to become successful, independent learners. They provide free tutoring,
and resources for subject areas such as writing, reading, EAP/ESOL, foreign language, mathematics, sciences, computer science, developmental education, and business/finance. To learn more about the academic assistance offered at each campus visit their website: https://www.hccfl.edu/support-services/academic-success-centers.

**Academic Technologies**

Hillsborough Community College is committed to providing academic technologies for its student population, and therefore, has developed a wide array of on-site and Internet-based technologies. These technologies include programs such as WebAdvisor for managing student business, the college portal for communication and supplemental learning, MyHCC for alternative coursework, web-based library resources, and an online tutoring service called Smarthinking. As a student at Hillsborough Community College, you will be able to access these resources both on-campus and from your home or other locations away from the college.

Students are expected to learn to use various technologies to communicate with HCC and with classmates. Students may also be required to use web-based programs, such as those in MyHCC or other technologies to complete homework assignments, course assessments and testing, or other learning activities as assigned by instructors. In the event a computer and internet access is needed, each campus has technology available to use in the libraries and computer labs.

The college also provides helpdesk support for students with problems accessing their resources. You can call the helpdesk at 813-253-7000 ext. 4357 (HELP) to speak to a technician for assistance. The college helpdesk is limited to addressing only those problems associated with accessing web-based resources; i.e. MyHCC portal, Smarthinking, and WebAdvisor.

**Libraries**

Each campus has a library that provides materials to support the College curriculum. Campus library collections include books, magazines, journals, audiovisual materials, and other items in print and online. In addition, campus-specific reserve collections contain documents and objects identified by HCC instructors for students' attention.

Each library has computers for research, homework, and printing needs (including Wi-Fi). The library may not be the only walk-in computer lab at a given campus.

Campus librarians provide reference assistance online, by phone, and in-person; one-on-one instruction in locating information; and customized group instruction to classes upon instructor request.

Library hours vary by campus and are posted online at https://www.hccfl.edu/library, and at each location.

**Student Services and Activities**

**Student Services**

HCC offers a wide variety of services to help students reach their academic, career and personal goals.

**Academic Advising**

Advisors are available on each campus to help students select educational programs and choose appropriate courses. Advisors review transcripts, interpret placement test scores, explain degree requirements and provide information about transferring to four-year institutions. Students are encouraged to obtain an advising guide for their program from the HCC website (https://www.hccfl.edu/support-services/academic-advising/hawkgps) and review it with an advisor early in their academic career so that they know which courses to register for each semester.

**Admissions, Registration and Records**

In order to provide students with prompt, efficient service, HCC must collect accurate information and maintain reliable student records. The college operates an admissions, registration and records office on each campus to answer questions about admissions, assist with registration, help complete HCC forms, receive and respond to requests for transcripts, and provide information required by outside individuals and organizations. In addition, the campus admissions, registration and records office will help students understand the policies and procedures in this catalog.

**Bookstores**

Each campus has a bookstore. The bookstores sell textbooks, general reading materials, books and periodicals, school supplies, art and engineering supplies, gifts, computers, computer software and other miscellaneous items.

**Career Resource Center**

The Career Resource Center provides students with information on careers and helps them make career decisions. Students can take career assessments and explore occupations with a campus Career Resource Center staff member through a variety of resources.

If students prefer working on their own, the college offers several automated career exploration options. Students can get more information about the career exploration system by visiting any campus Career Resource Center.

Employment opportunities are posted in the campus career centers and the online job boards. The Career Resource Center sponsors job fairs; schedules on-campus interviews with employers; and helps students with resume writing, interviewing techniques and other career related issues.
College Publications and Information

HCC provides members of the college community with current information by maintaining and supporting a variety of publications and media.

Counseling Services

Professional counselors are available to help students with career decision-making, academic planning, and personal growth. Counselors help provide direction to and monitor the progress of students who are on academic probation and those who have been previously academically suspended or dismissed. All information students share with counselors is treated with strict confidentiality.

In addition to short-term individual and group counseling, counselors offer seminars and workshops on study skills, time management, interpersonal skills, test anxiety reduction, and career exploration. All counseling services are free to students.

Students who would like to meet with a counselor may call or stop by an HCC counseling office. Students will either be seen on a walk-in basis or given an appointment.

Disability Services

HCC makes every effort to help students with disabilities get the most out of attending college by providing reasonable accommodations to ensure access to all academic programs, campus organizations, services and activities, in accordance with the Americans with Disabilities Act (ADA) of 1990.

All HCC activities, organizations, courses and academic and technical programs are open to students with disabling conditions.

HCC facilities are, as a whole, accessible to persons with physical disabilities via ramps, automatic entrances, and elevators. Accessible restroom facilities, parking spaces, telephones and water fountains are also available.

Who is Eligible?

The ADA defines a person with a disability as any person who has a physical or mental impairment that substantially limits one or more of such person’s major life activities; has a record of such impairment; or is regarded as having such an impairment. If students have one or more of the following disabilities, they may be eligible to receive services at HCC:

- Specific learning disability
- Hearing impairment
- Visual impairment
- Physical impairment
- ADD/ADHD
- Psychiatric disability
- Alcohol/drug abuse
- AIDS
- Speech/language impairment
- Other health impairment

Examples of Accommodations

HCC’s office of services for students with disabilities provides a wide range of free services to meet the needs of disabled students.

Depending upon documentation provided, available accommodations/services include, but are not limited to:

- College placement test and new student orientation accommodations
- Learning disability specialist
- Sign language interpreter
- Reader1201C
- Notetaker
- Books on CD
- Assistive computer hardware and software on campus
- Visual magnifier
- Alternative testing arrangement

How to Apply

A student or future student wishing academic accommodations must self-identify and provide appropriate documentation of their disability to the office of services for students with disabilities. Students should contact an HCC coordinator of services for students with disabilities to discuss documentation guidelines.

Students are encouraged to begin this process at least one month prior to the start of the semester. Students may schedule an appointment or visit on a walk-in basis.

Contact

For additional information on services and eligibility requirements, or to request services, students should contact an HCC coordinator of services for students with disabilities.

Brandon  BSSB 122  253-7914
Dale Mabry  DSTU 102  259-6035
Plant City  PSTU 124  757-2209
MacDill Center  PSTU 101C  757-2209
South Shore  SPMF 135  253-7000 ext.  5734
Ybor City  YPST 230  253-7757

Substitution, Admission and Graduation Requirements for Disabled Students

Students with hearing impairments, visual impairments, or specific learning disabilities who have received a standard diploma from a regionally accredited secondary school or earned passing GED scores may be eligible for substitutions of HCC admission requirements, program admission requirements, or graduation requirements. Eligibility for specific substitutions is based on the documentation of the students’ disabilities.

If documentation of students’ disabilities substantiates that the disabilities can reasonably be expected to prevent the students from meeting HCC’s admission, program, course and/or graduation requirements, students might qualify for substitutions. Students must provide appropriate documentation to an HCC coordinator of services for students with disabilities.
Food Services
Cafeterias on the Dale Mabry, Ybor and Brandon campuses are open when classes are in session. The food facilities at the Plant City and South Shore campuses are open during posted hours. Vending machines are located on all campuses.

Student Housing
The Hawks Landing Apartment Complex is available to HCC students for occupancy. The complex is located on the Dale Mabry Campus. For rental information, contact (813) 875-6000 or visit the Hawks Landing Web page at https://www.hccstudenthousing.com/.

College ID Card
As of spring term 2010, the Hawk Card serves as the official HCC photo ID card for students, faculty, and staff. The Hawk Card does not replace the HigherOne card which will remain as the student financial reimbursement card.

The Hawk Card is available at the Dale Mabry, Ybor City, Brandon, and Plant City Campus bookstores and at the Library at the South Shore Campus. The first card is issued free of charge. A $20.00 card replacement fee will be charged for each additional card.

Student Email
Upon enrollment at HCC, all students are provided personalized email access through HawkNet, HCC’s web-based service delivery portal. HCC has adopted email as the official means of communications with students because of its speed and efficiency in delivering important college communications. For this reason, it is important for students to check their HawkNet email regularly.

During registration periods, students should check HCC email daily for registration confirmations, notices regarding fees, financial aid and other pertinent information. Log-in information for email and other electronic services available via HawkNet will be provided during new student orientation.

Hawk Alert
Hawk Alert is Hillsborough Community College’s new text messaging system. It is easy to sign up! To receive text messages about emergencies, special notices and campus closures, go to https://www.hccfl.edu/alerts and sign up for this free service.* Stay connected by signing up today!

* NOTE: Some charges may apply based on your service provider.

Lost and Found
Students should turn in any articles found on campus to the campus security office. To claim lost articles, students must present proper identification.

Student Support Services Program
Student Support Services (SSS) is one of the federal TRIO Programs that provide a variety of academic support services to eligible disadvantaged students. Comprehensive support services enhance and improve the retention, graduation and transfer rates of the program’s participants from HCC. Additional transfer services are available to participants who qualify to transfer to 4-year colleges and universities.

All full-time and part-time disadvantaged students enrolled at any of the college’s campuses, learning centers or off-campus instructional sites, who qualify under the broad criteria, can apply for admission to the Student Support Services Program.

Test Centers
Test Centers, located on all campuses, administer faculty make-up, distance learning, placement, and counseling-related tests. Before being allowed to take tests, students must show picture identification, either a government-issued photo ID such as a driver’s license or an HCC student ID card. Appointments for some or all services may be required. Check the specific campus Test Center for information https://www.hccfl.edu/support-services/testing.

Students taking the CLEP test are required to provide two forms of identification. One form of identification must be a government-issued photo ID such as a driver’s license.

Students with disabilities who require alternative testing arrangements must contact an HCC coordinator of services for students with disabilities.

Students using unauthorized or inappropriate materials and students who conduct themselves inappropriately in a test center will be denied future testing privileges in the center and may be subject to college disciplinary action.

Vocational Rehabilitation Services
The Division of Vocational Rehabilitation, the Division of Blind Services, the Veterans Administration, and government agencies fund academic and vocational (technical) training for individuals with disabilities. For information about services and eligibility requirements and for referral to the appropriate agencies, students should contact an HCC coordinator of services for students with disabilities.

WINGS
The WINGS program is designed to promote the graduation of students pursuing AS or college certificate programs. A variety of support services are offered to address short-term as well as lifelong goals. Students may qualify for partial tuition and textbook support, in addition to childcare assistance.

To qualify, students must be enrolled in a technical education program and be eligible to receive a Federal Pell Grant. To obtain further information, students should call (813)253-7234.
Student Activities

Student Government Association
The Student Government Association (SGA) provides opportunities for students to actively participate in programs and policy-making at HCC. The SGA serves as a major vehicle for communication between students and the administration. The Student Government Association represents all students.

Each campus has an SGA with a president, executive board and senate.

Student Union Facilities
Student union facilities are open to all students. These facilities usually house offices for the SGA and areas in which students can meet.

Student Publications
Student publications and the student press are valuable aids in establishing and maintaining an atmosphere of free and responsible discussion. The college requires that its student publications staff adhere to responsible journalistic practices. The Canons of Journalism, the Advertising Code, and the Advertising Standards of Acceptability serve as external standards for which the editors and staff of the student publications at HCC strive.

Newspaper
The Hawkeye is HCC’s student newspaper. Published regularly, the paper is staffed by students from all campuses and receives assistance from a faculty advisor. The newspaper is free.

Galeria
The Galeria, HCC’s literary-arts magazine, is published annually under the supervision of a faculty advisor. The Galeria has a staff of student volunteers, and students from all campuses contribute the material published. The magazine is free to all HCC students.

Triad
The Triad, HCC’s general magazine, is published annually under the supervision of a faculty advisor. Volunteer journalism students staff the Triad, and the magazine is free.

Cultural and Special Events

Art Exhibitions
HCC’s Dale Mabry and Ybor City campuses are home to a variety of professional visual art galleries, offering learning environments that develop and teach visual literacy to students as well as the Tampa Bay community. These spaces support the college’s educational and cultural vision by providing continuous forums dedicated to the appreciation, enjoyment, and understanding of the visual arts through the presentation of diverse, high-quality exhibitions. Artists of regional, national, and international artists in all media are included. Admission is free.

HCC Dale Mabry Campus

Gallery 221 @HCC, Learning Resources Center, 2nd Floor
Gallery 3 @HCC, Learning Resources Center, 3rd Floor

Gallery Hours: Mon-Wed 9am-4pm; Thurs 9am-7pm; Fri 9am-2pm; closed Sat/Sun and holidays.
For more information, call (813) 253-7386

HCC Ybor City Campus
HCC Ybor Art Gallery, Performing Arts Building, 1st Floor
MAZE Gallery, Administration Building 3rd Floor

Gallery Hours: Mon, Wed-Fri 10am-4pm; Tues 12-7 pm; closed Sat/Sun and holidays.
For more information, call (813) 253-7674

Drama
During the academic year, theatrical presentations are held on the Ybor City Campus. The schedule and location of open auditions for upcoming productions are posted on the campus bulletin board and in the school newspaper. Drama department productions are held at the Ybor City Campus Performing Arts Building.

Music
Student, faculty and artist recitals are held in the Ybor Performing Arts Building. Vocal and instrumental recitals and concerts are scheduled primarily during the fall and spring terms and feature student, faculty and guest artists in solo and ensemble performances.

Films, Dances and Special Events
Each semester campus student government associations sponsor events such as films, dances, concerts, guest speakers, special forums and cookouts. All events are at no cost to current students with a valid HCC ID card.

Sports

Gymnasium, Weight Room and Tennis Complex
HCC’s tennis complex, is located at the northeast corner of the Dale Mabry Campus. Students, faculty, and staff may use the sports complex at no charge while participating in college credit courses.

Tennis and racquetball courts are available for educational and recreational use by HCC students and the community. Programs, clinics and lessons are available for players of all ages and levels. Further details are available by calling (813) 348-1173 or visiting the website at www.tampatennis.net.

The gymnasium, which serves as the home court of the Hawks basketball and volleyball teams, is located on the Dale Mabry Campus.

College weight training rooms and the gymnasium are available for student use free of charge at designated times. There are weight rooms located on the Brandon, Dale Mabry, Ybor City, and Plant City campuses. Hours of operation for the gym and weight room are posted and vary from term to term. Students are required to dress appropriately.
Varsity Sports

The varsity sports program consists of volleyball, basketball, tennis and softball (fast pitch) for women; and basketball and baseball for men.

The Hawks are members of the Florida Community College Activities Association, Suncoast Conference, and Region VIII of the National Junior College Athletic Association.

Financial aid is available to any full-time student who meets both athletic and academic qualifications. For details, students should contact the athletic office, Dale Mabry Campus, at (813) 253-7367. Upon request, the college will make available to current or future students the completion rates of student athletes.

Student Clubs and Organizations

Each campus has clubs and organizations that serve student needs and interests. Student clubs and organizations provide students with the opportunity to participate in organized activities with others having similar interests. They offer students a way to make friends, expand horizons, and get involved in college life.

The HCC Student Handbook has a current list of clubs and organizations offered at each campus.

Student Policies

Activities Calendar

Each campus maintains a calendar listing the time and location of approved activities. Students must make arrangements for scheduling an event and reserving a location for a co-curricular activity with the appropriate student government activities advisor before the event can be placed on the activities calendar.

ADA (Americans with Disabilities Act)

HCC complies with, and fully supports, the 1990 Americans with Disabilities Act (ADA). The ADA prohibits discrimination on the basis of disability in the services, programs and activities provided and operated by the college. HCC also complies with, and fully supports, other federal, state and local laws that protect the rights of disabled persons, such as the Rehabilitation Act of 1973 and the Florida Educational Equity Act. Unless the result will cause an undue hardship to the college or fundamentally alter a program or service provided by the college, HCC will provide reasonable accommodations and auxiliary aids to disabled applicants, employees, students and members of the college community.

AIDS

HCC recognizes that Acquired Immune Deficiency Syndrome (AIDS), AIDS Related Complex (ARC), or a positive test for HIV antibody represents a significant public health threat. It is HCC’s policy to balance the rights of AIDS victims to an education and employment at HCC against the rights of other students and employees to an environment in which they are protected from contracting the disease.

HCC will offer students with AIDS the same opportunities and benefits offered to other students. Generally, HCC will not impose any rules on students with AIDS that may have the effect of limiting their participation in the educational programs or activities at HCC. Students with AIDS will not be isolated by HCC or prevented from participating in college activities unless such participation has been scientifically shown to endanger the wider community. Risk determinations will be made by medical professionals in consultation with an office of services for students with disabilities.

A campus coordinator of services for students with disabilities is responsible for reviewing HCC’s procedures and ensuring they are both free of discrimination and pose no danger to the community at large. The coordinator will also meet, as needed, to consider and recommend appropriate action in individual occurrences of the disease. Any questions, concerns, consultation regarding AIDS, services or accommodations should be referred to an office of services for students with disabilities.

Audio/Video Recordings

A student shall not, without the faculty member’s express authorization make or receive any recording, including but not limited to audio and video recordings of any class, co-curricular meeting, organizational meeting or meeting with a faculty member. Further, the student does not have permission to post class lectures or course lectures on the Web. In Compliance with ADA regulations, exceptions to this statement are made in the cases of situations in which the student has requested appropriate accommodations for his or her disability.

Bulletin Boards

Each campus has several large community bulletin boards on which students may post announcements such as want ads, for-sale notices, notices of meetings, etc. Prior to posting, all notices from students must have the stamped approval of the appropriate campus dean of student services, the dean’s designee, or the organization assigned authority and/or responsibility for the specific bulletin board.

Campus Disturbances

State law prohibits the disruption of or interference with the administration, function or activities of an educational institution. In addition, the law prohibits individuals from encouraging students to disrupt the educational process or to interfere with the attendance of any student or employee.

Individuals who violate this law will be charged with a second-degree misdemeanor and, upon conviction, be fined up to $500, imprisoned for up to 60 days, or both. In addition, students who violate this law will be subject to college disciplinary procedures.

Campus Events

All on-campus meetings must be scheduled with the appropriate campus student activity coordinator or
through the office of the appropriate campus of dean of student services.

**Children on Campus**

For safety reasons, parents and others responsible for the care of minor children under the age of 17 should not bring them on campus while engaged in academic activities such as class, research, lab periods, or study groups. Minor children under the age of 17 should be on campus only when activities specifically allow for their involvement.

**Disciplinary Action**

The campus dean of student services, according to HCC administrative procedures, administers disciplinary action resulting from violations of the Student Code of Conduct. The Student Code of Conduct is located in the Student Handbook, which is available on the HCC website at [www.hccfl.edu](http://www.hccfl.edu).

**Dress Code**

HCC believes that students are mature enough to determine what constitutes appropriate dress. However, state law requires students to wear shirts and shoes while on HCC’s campuses.

**Drugs & Alcohol**

One of HCC’s goals is to maintain a drug-free workplace and educational setting. Therefore, the manufacture, distribution, dispensation, possession, or use of alcohol or controlled substances on HCC property is prohibited. However, upon prior authorization by the President, alcoholic beverages may be served on HCC property and at HCC functions.

Annually, each registered student is provided detailed information about HCC drug policies and the behavioral, social and legal consequences associated with drug use. Students charged with violating this policy will be referred for disciplinary action to the appropriate campus dean of student services. Students who violate the college’s drug and alcohol policy will be subject to severe disciplinary sanctions including suspension or expulsion. In addition, the college will refer violators to the appropriate law enforcement agencies for prosecution and will assist law enforcement agencies in investigating students who may be using or trafficking drugs.

For more details regarding HCC’s policy on alcohol and illicit drugs, see the HCC Safety Handbook, Student Handbook and Academic Planner or HCC Administrative Rule 6HX-10-2.05. A copy of this information is available on the HCC website at [www.hccfl.edu](http://www.hccfl.edu).

The college will also provide future students with a review of HCC’s alcohol and drug prevention and education programs.

**Hazing**

Officers, members, and others associated with HCC student organizations are prohibited from engaging in hazing and in participating in activities on or off campus that endanger students’ health or safety.

**Intellectual Property**

HCC is committed to providing an environment that supports the academic activities of our students and encourages innovation. Students may produce endeavors that are subject to copyright, trademark or patents from independent work or through College-sponsored or supported efforts using College funds, staff, facilities, material or technological information.

HCC’s [Administrative Rule 6HX-10-2.12](http://www.hccfl.edu) and [Administrative Procedure 4.23](http://www.hccfl.edu) provide additional information on intellectual property and student work.

**Ombudsman/Student Advocate**

The vice president for student services and enrollment management is the college’s ombudsman/advocate for students. The vice president’s office is located on the third floor of the district administration center. Students may appeal decisions related to course access and credits granted toward degrees to the office of the ombudsman.

**Religious Observances**

HCC will reasonably accommodate the religious observances, practices, and beliefs of students in its admission, class attendance and the examination policies and in work assignments. Students must notify instructors at least one week prior to a religious observance.

Students may file a grievance if they believe they have unreasonably been denied an educational benefit due to their religious beliefs or practices.

**Public Safety**

The HCC public safety office is available to assist all students and employees. The public safety office patrols college property to detect and deter criminal activity, provide protection to those on campus, provide security for college property, and detect and document hazardous, unusual and suspicious behavior and conditions.

The public safety department provides information and assistance on a 24-hour basis. The department utilizes uniformed patrol officers with marked vehicles and officers on foot patrol to observe and detect criminal behavior and suspicious activities; enforce traffic and parking regulations; and assist students and employees. Students, employees, and members of the community are required to obey all local, state and federal laws, statutes and ordinances. In addition, members of the college community must observe all HCC administrative rules and procedures. The public safety department is responsible for monitoring compliance with these laws and many of the college’s rules and procedures.

**Responsible Students and Employees should:**

- Inform the public safety department about suspicious conduct, criminal activities and hazardous situations.
- Refrain from leaving doors and windows open when rooms are vacant.
• Walk to cars and classes in groups or with a companion. (Call 253-7911 for an officer escort to the parking lots or garage.)
• Walk in well-lighted areas at night, even when in a group.
• Attend to their intuition. (If students feel they are being followed, they should change direction and walk toward a group of people or to a secure area.)
• Watch their belongings.
• Avoid strangers that appear suspicious or out of place.
• Freely contact Security to ask for assistance.
Students who notice situations that represent potential or real safety or security problems should notify the local campus security office by using the emergency telephones.

Upon request, the college will make available to future students its policies, procedures, statistics and other information about campus safety and security. The Safety Handbook is available at the student services Web page at https://www.hccfl.edu/support-services/public-safety.

Sexual Harassment Policy

Hillsborough Community College will maintain a workplace and educational setting free from harassment of any kind and from any source including but not be limited to supervisors, co-workers, administrators, students, faculty, consultants and visitors to the college. Each administrator, faculty member, professional-managerial employee, classified employee and student should pursue assignments and responsibilities at the college with a total commitment to basic ethical principles and professional codes of conduct.

The college believes sexual relationships between teachers and students or superiors and subordinates are unethical because the consent of students or subordinates may not be voluntary given the “power imbalance” in such relationships.

Tobacco-Free Policy

HCC is dedicated to providing a healthy and productive environment for its faculty, staff, students, visitors, and contractors which includes eliminating tobacco use as part of our commitment to promoting healthy practices and choices for individuals.

Tobacco-use is prohibited on all Hillsborough Community College properties, including owned and leased buildings, student housing, outdoor areas, parking lots and garages, courtyards, entrance and exit ways and college vehicles. This policy includes all types of tobacco and tobacco-like products, including smoked and smoke-less tobacco, other smoking products, and electronic cigarettes.

Student Misconduct

Students must adhere to all published federal and state laws and ordinances and college administrative rules and procedures. Alleged violations of the Student Code of Conduct will be referred to the appropriate campus dean of student services. Following the guidelines in the Student Handbook and Academic Planner for student conduct and discipline, the dean will determine the appropriate college response.

HCC will cooperate with external police and judicial authorities investigating alleged violations of public laws or ordinances.

Telephones

Office telephones are for official use only. If the college receives an emergency call for a student, every effort will be made to locate and inform the student. However, the college will not deliver personal messages of a non-emergency nature.

Textbook Refund Policy

HCC bookstores grant full refunds on textbooks (whether purchased new or used) during the first two weeks of the semester and during the first week of summer term. Books returned after those deadlines will be purchased at used book prices (55 percent of purchase price). In determining the amount to be refunded, the bookstores will follow these guidelines:
• All refund requests must be accompanied by sales receipts.
• If purchased new, books must be unmarked and must not be defaced in any manner. Marked books will be purchased at used book prices. The bookstore staff members are the sole judge of whether a book is in new or used condition.
• Each HCC bookstore will refund textbooks purchased at any other HCC bookstore.
• Books or merchandise that is defective should be exchanged as soon as the defect is discovered. Defective used books must be returned for exchange during the first two weeks of class.
• Students must provide a student ID and a government-issued photo ID in order to receive refunds.
• Refunds are not given for merchandise other than textbooks.
• Refunds are not given for special-order books.
• When students’ petitions for late drops are approved, the deadline for refunds will be waived.

Buy Back Policy

If a textbook is in good, resalable condition and is a required textbook for the next semester (except when the bookstore’s current stock exceeds the anticipated demand), the bookstore may buy the book back at a price determined by the bookstore.

The buy-back period is the first two weeks and last week of each semester and on every Tuesday and Wednesday during the semester.

On each campus, bookstore hours are posted each term.
**Threats of Violence**

Threats by HCC students, staff or visitors to do bodily harm, damage property or disrupt the operation of the college are inimical with the goals of the college and will not be tolerated. Students or employees who make such threats, whether verbal or written, expressed or implied, will be disciplined according to the appropriate administrative procedures.

**Records Policies**

**Confidentiality of Student Records**

The Family Educational Rights and Privacy Act (FERPA) governs the confidentiality of student records. (Records are defined as all records, files and data directly related to students that are created, maintained, and used by HCC.)

**Notification of Social Security Number Collection and Usage**

Hillsborough Community College (HCC) will only use your social security number (SSN) as needed for lawful purposes within the business of HCC and for those specific purposes identified by the Social Security Administration, the Internal Revenue Service and other state and federal regulatory agencies. The SSN will not be used in any information system as the primary identification of individuals unless required by law. HCC is committed to provide security for our students, faculty and staff; and recognizes that the threat of identity theft is a growing problem. HCC departments that are authorized and required to collect, transmit, store or use a SSN will do so in a secure manner. Violations of this policy may result in disciplinary action up to and including discharge or dismissal in accordance with HCC rules and procedures.

In compliance with Section 119.071, Florida Statutes, this document serves to notify you of the purpose for the collection and usage of your SSN.

HCC collects and uses your SSN only for the following purposes in performance of the College’s duties and responsibilities. To protect your identity, HCC will protect your SSN from unauthorized access, never release your SSN to unauthorized parties, and assign you a unique student/employee identification number. This unique ID number is used for all associate employment and educational purposes at HCC.

For the student information system (Hawknet), the primary identifier for a student will be the student identification number, which will be used to access student education records, and for electronic and paper data systems that identify, track and service students. Faculty and staff will require students to provide their student identification number for all transactions and not SSNs for any transactions requiring access to student records.

Providing your SSN is a condition of employment at HCC. Your SSN is used for legitimate employment business purposes in compliance with:

- Completing and processing the Federal I-9 (Dept. of Homeland Security)
- Completing and processing Federal W4, W2, 1099 (Internal Revenue Service)
- Completing and processing Federal Social Security taxes (FICA)
- Processing and distributing Federal W2 (Internal Revenue Service)
- Completing and processing quarterly unemployment reports (FL Dept. of Revenue)
- Completing and processing Florida retirement contribution reports (FL Dept. of Revenue)
- Processing workers compensation claims Florida Community College Risk Management Consortium (FCCRMC) and Dept. of Labor
- Completing and processing direct deposit files
- Completing and processing 403b and 457b contribution and similar reports
- Completing and processing group health, life and dental coverage enrollment
- Completing and processing various supplemental insurance deduction reports
- The HCC Office of Financial Aid requires students to submit their SSN on various financial aid forms to coordinate institutional, state and federal financial aid programs.
- The HCC Admissions Department will collect student SSNs, which are needed for federal reporting requirements. However, students are assigned a student number which will be used for all college business of identification. All SSNs are protected by FERPA and are never released to unauthorized parties.
- The HCC Financial Services Office uses student SSN’s to report information to the Internal Revenue Service (IRS) via 1098T, the Florida Prepaid Tuition Plan, to third parties paying for tuition and fees on behalf of the student, for reporting information to collection agencies, and for reports required by the state and federal government.
- The Upward Bound, Educational Talent Search and College Reach-Out Programs are youth outreach (intervention) projects funded by discretionary grants from the United States or Florida Department of Education (FDOE). As such, each project is required to exclusively serve eligible participants that are citizens or nationals of the United States; or, are permanent residents of the United States. In order to verify a participant’s project eligibility, SSNs are required and also later used when submitting information for the annual performance reports due to the United States or FDOE.
- Workforce programs, funded through the Agency for Workforce Innovation (AWI), use your SSN as an identifier for program enrollment and completion. Also, it is used for entering placement information into the statewide data collection and reporting system. Because these are performance-based contract programs, AWI requires that all participants and their program-related activities be recorded in the Florida state system.
HCC students have the right to:

- Inspect and review their educational reports and records.
- Have privacy of their educational reports and records maintained.
- Require the college to obtain written consent prior to disclosing personally identifiable information except in those instances specifically noted in the statute.
- Challenge and request a hearing on requiring the college to amend any portion of the students’ records that are inaccurate, misleading or otherwise in violation of the students’ privacy.

Right of Access

Students and parents or guardians of dependent (per Section 152 of the Internal Revenue Code) students are entitled to these rights and to access to students’ records. Parents or guardians of students will not be given access to the students’ records without the written consent of the student or documentation that the student is dependent.

Students and eligible parents or guardians may request a list of the types of student records maintained by HCC. These records include but are not limited to:

- Academic records, i.e., application, transcripts, enrollment verifications, course records, grades, etc. (Direct requests to the appropriate campus admissions, registration and records office.)
- Disciplinary records. (Direct requests to the appropriate campus dean of student services.)
- Financial aid records. (Direct requests to the appropriate campus financial aid office.)
- Student account and fee records. (Direct requests to the college financial services department.)

Eligible individuals may inspect or review student records and reports and receive copies for the cost of producing such copies. College employees may review student records when the reason for their review serves a legitimate educational or administrative purpose. Unless conducting approved research, faculty members may review the records only of students currently enrolled in their classes.

Right of Waiver of Access to Confidential Letters or Statements

A student, eligible parent, or guardian may waive the right of access to evaluations, confidential letters, or letters of recommendation. When requested, HCC will provide the names of individuals who have submitted such letters and evaluations. Moreover, HCC will endeavor to ensure the recommendations and evaluations are used only for the purpose(s) intended.

Corrections

HCC maintains student records electronically, on paper, on microfilm and on microfiche. In order to provide students the opportunity to correct errors and appeal discrepancies, the college will maintain the original documents on which the records are based for one year. After one year, the source documents may no longer be available and documenting errors will become the students’ responsibility.

Right to Challenge and Hearing

Students and eligible parents or guardians have the right to challenge the content and request amendment of records and reports they believe to be inaccurate or misleading. To present such a challenge, students, eligible parents or guardians should contact the appropriate campus admissions, registration and records office.

Challenges may be settled informally by a written agreement. If challenges cannot be settled informally, either party may request, within a reasonable period of time, that a formal hearing be held to settle the dispute. If a request is made, the appropriate campus president will appoint an administrator, without an interest in the outcome, to serve as the hearing officer. Students, eligible parents or guardians, and college employees whose testimony is relevant to the issue may present evidence. After reviewing all available evidence and testimony the hearing officer will make a written recommendation to the appointing president. The campus president will issue a written decision.

Students and eligible parents or guardians have the right to appeal decisions of campus presidents’ rulings on FERPA challenges to the vice president for student services and enrollment management.

Right to Privacy

Students have the right to privacy with respect to the educational records maintained by the college. Personally identifiable student records or reports are confidential and will not be released without the written consent of students. HCC will release directory information on students unless students submit written requests to the appropriate campus admissions, registration and records office requesting that directory information be withheld. Directory information includes students’:

- Names;
- Majors;
- Participation in officially recognized activities and sports;
- Weight and height (of members of athletic teams);
- Dates of attendance;
- Degrees and awards received;
- Enrollment status.

Complaints

Individuals who believe their privacy rights have been violated may petition the Family Educational Rights and Privacy Acts Office at the Department of Health & Welfare in Washington, D.C. or file suit in Circuit Court to request enforcement of the rights they believe to have been violated.
Rule and Procedure

Students may obtain a copy of the administrative rule and procedure on student records, including the requirements of the federal and state laws, from their campus dean of student services.

Release of Information

Organizations requiring verification of student enrollment or graduation should contact the National Student Clearinghouse at www.studentclearinghouse.org. Unofficial verifications can be processed through the student’s WebAdvisor account.

Since the federal government requires educational institutions to take precautions to prevent the misuse of student data, HCC will release student information only upon receipt of a signed, written request by the student or other authorized requestor.

Parties requesting information should submit their requests, and any accompanying forms, to the campus admissions, registration and records office. The college will try to process requests for information within 10 working days.

Faculty Retention of Student Records

Faculty members should keep proof of student grades for one full year. HCC maintains student records on paper, microfilm, and computer files. Students have one year to correct any discrepancies in these records. After that, source documents for microfilm and computer files may no longer be available. Therefore, the burden of proof for changes made after the one-year period lies with the student.
College Preparatory Curriculum

The college preparatory curriculum is designed to improve students' performance in reading, writing and mathematics. In accordance with SBE Rule 6A-10.0315 Common Placement Testing and Instruction, “a student who entered 9th grade in a Florida public school in the 2003-2004 school year, or any year thereafter, and earned a Florida standard high school diploma or a student who is serving as an active duty member of any branch of the United States Armed Services shall not be required to take the common placement test and shall not be required to enroll in developmental education instruction in a Florida College System institution.” Students who are required to take the college placement test and who earn scores below the state-mandated minimum scores must enroll in college preparatory communication and computation instruction. Depending on the areas needing remediation, students will be placed into college preparatory writing, reading, and/or computation courses. Students must see an advisor to ensure that they enroll in the appropriate courses that will best meet their needs. Even if the placement test is not required, all students are encouraged to take the placement test to determine if college preparatory courses are advisable for them.

The bulleted items below refer to specific requirements related to the preparatory curriculum:

- Completion of a preparatory course in reading is required prior to enrolling in preparatory math if the student scores below 84 in reading on the PERT.
- Students attempting a college preparatory course for the third time must pay the full cost of instruction (withdrawal from a course counts as an attempt). Students who have serious extenuating circumstances may petition the appropriate campus dean of student services for an exemption from paying the full cost of instruction. Students who fail to complete a preparatory course satisfactorily within three attempts will not be allowed to register again for that course, unless otherwise specified.

College Preparatory Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 0022</td>
<td>Developmental Writing</td>
<td>4 cr.</td>
</tr>
<tr>
<td>ENC 0055</td>
<td>Developmental Writing Module</td>
<td>1 cr.</td>
</tr>
<tr>
<td>REA 0018</td>
<td>Developmental Reading</td>
<td>2 cr.</td>
</tr>
<tr>
<td>REA 0019</td>
<td>Developmental Reading</td>
<td>4 cr.</td>
</tr>
<tr>
<td>MAT 0018</td>
<td>Pre-Algebra</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MAT 0022</td>
<td>Integrated Arithmetic and Algebra</td>
<td>5 cr.</td>
</tr>
<tr>
<td>MAT 0028</td>
<td>Beginning Algebra</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MAT 0029</td>
<td>Developmental Mathematics for Statistics and Liberal Arts</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MAT 0055</td>
<td>Developmental Mathematics Module</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>

Suggested electives to take with preparatory course work:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1500</td>
<td>Applied Word Processing</td>
<td>1 cr.</td>
</tr>
<tr>
<td>CLP 1000</td>
<td>Psychology of Personal Growth</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FIN 1100</td>
<td>Personal Finance</td>
<td>3 cr.</td>
</tr>
<tr>
<td>OST 1142</td>
<td>Keyboarding I</td>
<td>1 cr.</td>
</tr>
<tr>
<td>OST 1143</td>
<td>Keyboarding II</td>
<td>1 cr.</td>
</tr>
<tr>
<td>OST 1741</td>
<td>Word Processing</td>
<td>1 cr.</td>
</tr>
<tr>
<td>REA 1105</td>
<td>Critical Reading Techniques</td>
<td>3 cr.</td>
</tr>
<tr>
<td>REA 2505</td>
<td>Vocabulary Improvement</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>
### English for Academic Purposes (EAP)

Courses in English for Academic Purposes are offered at the Ybor City, Dale Mabry and SouthShore campuses. The six levels of instruction are designed to help non-native English speakers reach a level of proficiency that will prepare them for better employment or academic opportunities.

Students whose diagnostic tests indicate they need instruction in English for Academic Purposes (EAP) are eligible to take the Post-secondary Education Readiness Test (PERT) after they have successfully completed all Level IV classes and their grades have been posted.

If they obtain the required college-level PERT scores in both writing and reading, they may enroll in ENC 1101 and in other college-level courses that are in their intended major. If they do not meet the required college-level PERT scores in both writing and reading, they must complete Levels V and VI. Students may not skip Level VI or retake the PERT after beginning Level V. Students enrolled in EAP Levels V and VI are eligible to take the PERT test only in math.

In order to be admitted to EAP, students must meet the required minimum scores in reading and language use on the placement test. Students who do not meet the required minimum scores are advised to take *Foundations: Beginning in English* classes offered through HCC’s Institute for Corporate and Continuing Education (ICCE). EAP courses are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAP 0100</td>
<td>Speech/Listening I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0120</td>
<td>Reading I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0140</td>
<td>Writing I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0160</td>
<td>Grammar I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0200</td>
<td>Speech/Listening II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0220</td>
<td>Reading II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0240</td>
<td>Writing II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0260</td>
<td>Grammar II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0300</td>
<td>Speech/Listening III</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0320</td>
<td>Reading III</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0340</td>
<td>Writing III</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0360</td>
<td>Grammar III</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0400</td>
<td>Speech/Listening IV</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0420</td>
<td>Reading IV</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0440</td>
<td>Writing IV</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 0460</td>
<td>Grammar IV</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAP 1500</td>
<td>Speech/Listening V</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†EAP 1500L</td>
<td>Speech/Listening Lab V</td>
<td>1 cr.</td>
</tr>
<tr>
<td>EAP 1520</td>
<td>Reading V</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 1520L</td>
<td>Reading Lab V</td>
<td>1 cr.</td>
</tr>
<tr>
<td>EAP 1540</td>
<td>Writing V</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 1540L</td>
<td>Writing Lab V</td>
<td>1 cr.</td>
</tr>
<tr>
<td>EAP 1560</td>
<td>Grammar V</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 1620</td>
<td>Reading VI</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†EAP 1620L</td>
<td>Reading Lab VI</td>
<td>1 cr.</td>
</tr>
<tr>
<td>EAP 1640</td>
<td>Writing VI</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EAP 1640L</td>
<td>Writing VI Lab</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
The Associate Degree

Hillsborough Community College offers associate in arts (AA) and associate in science (AS) degrees.

The AA degree is awarded to students who complete university transfer curricula designed to prepare them to enter as juniors at a four-year college or university.

The AS degree is awarded to students who complete technical programs. The AS degree is designed to prepare students for the workforce. A number of these degrees are designed so that students who earn them may transfer their credits into specialized programs at four-year institutions. In addition, students who earn one AS degree may qualify for another. Students wishing to earn a second AS degree must complete at least 15 hours at HCC beyond the first degree. Moreover, they must meet all requirements for the second degree.

To ensure a well-rounded education, degree curricula include general education courses within communications, humanities, natural sciences, mathematics and social and behavioral sciences. Where options are available, they are noted.

Excess Hours Advisory Statement

Section 1009.286, Florida Statutes, establishes an “excess hour” surcharge for a student seeking a baccalaureate degree at a state university. An excess hour surcharge equal to 100 percent of the tuition rate will be applied for each credit hour in excess of 110 percent.

All students whose educational plan may include earning a bachelor’s degree should make every effort to enroll in and successfully complete those courses that are required for their intended major on their first attempt. Florida college students intending to transfer to a state university should identify a major or “transfer program” early and be advised of admission requirements for that program, including the approved common prerequisites. Course withdrawals and/or repeats, as well as enrollment in courses, non-essential to the intended major, may contribute to a potential excess hours surcharge.

Prerequisite Coursework “C” or Better Requirement

A student must earn a “C” or better in prerequisite coursework unless the instructor waives the requirement or unless otherwise stated in the course description.

Graduation Requirements

To earn an AA or an AS degree, students must:

• Complete the approved curriculum of not less than 60 credits including general education requirements, program requirements, and electives.
• Fulfill the degree requirements under the catalog in effect during the semester that begins the period of continuous enrollment immediately prior to the semester in which the student applies for graduation. The graduation requirements of the catalog year in which a student initially enrolls will be valid for six years. Students who graduate after six years from the time of their initial enrollment will graduate under the requirements of the catalog in effect during the academic year in which they wish to graduate.

Exceptions:
• Programs deleted from the College inventory have a two-year teach-out time period, and students must complete a deleted program within the two-year teach-out period;
• State Framework changes or other changes coming from the state supersede the six-year time period.

NOTE: Continuous enrollment is maintained by registering for at least one term each academic catalog year. An academic catalog year is defined as the beginning Fall, Spring and ending Summer terms for the academic year. If a student’s enrollment is interrupted for more than one academic catalog year, the student will be considered a former student returning. A former student returning must meet the graduation requirements of the catalog in effect during the semester they return.

• Earn at least 25 percent of the credit hours applicable to the degree in residence at HCC.

In addition:

• No more than four credit hours of physical education activity/skills courses may be applied toward a degree.
• Have a 2.0 HCC cumulative GPA along with overall

NOTE: Credits from other colleges will be used in computing the GPA.

• Complete IDS 2891, Connections for the AA degree. Prior to taking the course, students must have completed at least 45 hours of coursework towards the degree, including at least 24 hours of general education coursework with a minimum grade of “C.”
• Complete an application
• Fulfill all financial obligations before a release of transcripts or diploma.

Programs are subject to change.

Students are responsible for obtaining current and accurate information prior to registering for classes.
The Associate in Arts Degree

University Transfer Program

The associate in arts (AA) degree is designed primarily to meet the requirements for a student to transfer to the upper division level of a college or university to continue to work toward a bachelor’s degree.

Students should be aware of the specific requirements for the AA degree imposed by state regulations and law. For example, general education and elective credit requirements integrate requirements established by the Southern Association of Colleges and Schools and Florida’s State Board of Education Rule 6A-10.030 (the Gordon Rule). Section 1007.25 (7), Florida Statutes require that associate in arts degree requires no more than 60 credit hours. Those statutes also mandate that the general education courses required for the associates in arts degree be distributed within designated categories. Courses that comprise the 24 hours of electives may be designated for university program entry.

Meeting graduation requirements for an AA degree from a Florida community college is not synonymous with meeting the specific course requirements to enter a specific program at a state university or private college belonging to the Independent Colleges of Florida.

HCC prepares students for hundreds of possible transfer majors, each of which has a distinct listing of common prerequisite courses designated by the Florida University System. To ensure accuracy in selecting courses, students should consult and advisor. The following is a list of the available HCC transfer tracks:

- Agriculture
- Anthropology
- Architecture
- Art
- Biological Sciences: General, Marine, or Aquatic
- Building Construction
- Business Administration
- Communication
- Computer Information Systems
- Computer Science (Engineering)
- Criminology
- Dance
- Dramatic Arts
- Education/Teacher Preparation
- Engineering
- Entrepreneurship
- Exercise Science
- Foreign Language
- Graphic Design
- History
- Hospitality Administration Management
- Humanities
- Liberal Arts and Sciences
- Mass Communications
- Math Education: Teacher Prep
- Mathematics
- Medical Science
- Music
- Pharmacy
- Philosophy
- Political Science
- Psychology
- Public Health
- Religious Studies
- Sociology
- Statistics

To earn an AA degree, students must complete a minimum of 60 credit hours with no less than 36 credits of specified general education courses and 24 credits in the university transfer program electives. Legislation may further affect the graduation requirement; therefore, students are advised to obtain more current information from the advising and transfer offices.

The articulation agreement between Florida community colleges and state universities specifies that students who have been certified as having satisfactorily completed the general education requirements in a university transfer program are exempt from any additional general education requirements after transferring to a state university or community college. However, to be eligible for admission into a limited access program at a state university, students may be required to take specific prerequisite courses (which may exceed the 60 credit hours) and meet other requirements such as a minimum GPA, minimum ACT/SAT test scores or audition/portfolio.

Students may pursue any combination of university transfer programs, but only one AA degree will be awarded.

Students are advised to contact the specific department of the institution where they plan to transfer as early as possible for information regarding courses to be taken at HCC. Courses required at transfer institutions may fulfill HCC general education requirements or electives.

SLS 1106 or an approved substitute is required for all first-time-college-students seeking an Associate in Arts degree. Please see an advisor for more information.

General Education Requirements

General education provides a foundation upon which a student’s learning experience is built. It offers students the opportunity to acquire the skills and knowledge necessary to have a broad understanding of a changing world.

The HCC general education program is designed to provide students with the knowledge, skills, and vision necessary to allow them to become valued participants in a complex and culturally diverse world. The program encourages intellectual inquiry, helping students to develop an understanding of the human mind and spirit, as well as a sense of history and the dynamics of the society around them. As students plan for the world that is ahead of them, the general education program gives them an appreciation of the world that preceded them, as well as a frame of reference for the world in which they live.

Students who complete the HCC general education core curriculum should be able to demonstrate their:

- ability to think critically.
• ability to express themselves clearly in written and oral communication.
• ability to express themselves effectively in quantitative terms.
• understanding of and appreciation for the value and significance of culture.
• appreciation of the scientific method of inquiry and the historical and contemporary impact of science on daily life.
• understanding of global political, social, economic, and historical perspectives.
• ability to use technology to access, retrieve, process, and communicate information.
To earn an AA degree, students must complete 36 hours of general education courses which includes state-mandated core coursework. The general education courses are divided into three groups consisting of two or more disciplines. Each discipline category includes core options and additional HCC options. Specific instructions are provided for each discipline.

**Group I – Communications and Humanities:** 15 credits required

**Discipline: Communications (9 credits required)**

**Core Options**

Choose course below:

ENC 1101  English Composition I 3 cr.

**Additional HCC Options**

Choose both options below:

ENC 1102  English Composition II 3 cr.

SPC 1608  Public Speaking 3 cr.

**Group II – Mathematics and Natural Science:** 12 credits required

**Discipline: Mathematics (6 credits required)**

**Core Options**

Choose one or two courses below:

MAC 1105  College Algebra 3 cr.

MAC 2311  Calculus and Analytic Geometry 5 cr.

MGT 1106  Topics in Mathematics 3 cr.

MGT 1107  Explorations in Mathematics 3 cr.

STA 2023  Elementary Statistics 3 cr.

**Additional HCC Options**

If only one course was selected from the core options, choose the second course from the options below:

MAC 1106  Combined College Algebra/Pre-Calculus 5 cr.

MAC 1114  Trigonometry 3 cr.

MAC 1140  Pre-Calculus Algebra 3 cr.

MAC 1147  Pre-Calculus Algebra and Trigonometry 5 cr.

MAC 2233C  Calculus for Business and Social Science 3 cr.

MAC 2312  Calculus and Analytic Geometry II 5 cr.

MAC 2313  Calculus and Analytic Geometry III 5 cr.

MAP 2302  Differential Equations 3 cr.

**NOTE:** Any student who completes a mathematics course for which one of the general education core course options in mathematics is an immediate prerequisite should be considered to have completed the mathematics core. Additionally, all general education mathematics courses require college level reading and writing skills.

**Group III – Biological Science:** 9 credits required

**Discipline: Science (6 credits required)**

Choose at least one course below in biological science and one course in physical science from the following list of courses. At least one science option must be a core option. For the additional HCC options, students may choose from the list below, or students may select any college-level science course higher than the core course options.

- American Literature to 1885
- American Literature: 1885 to Present
- American History: 1885 to Present
- World Literature to 1800
- World Literature to 1650
- Latin-American Literature
- African-American Literature
- British Literature to 1800
- British Literature: 1800 to Present
- World Literature to 1650
- World Literature: 1650 to Present
- World Literature: Prehistory to Early Modern Era
- World Literature: Early Modern to Contemporary
- Asian Humanities
- African Humanities
- Latin-American Humanities
- Elementary Logic
- Ethics
- Biomedical Ethics
- Introduction to Religion

If only one course was selected from the core options, choose the second course from options below:

DAN 2100  Introduction to Dance 3 cr.

HUM 2210  World Humanities: Prehistory to Early Modern Era 3 cr.

HUM 2230  World Humanities: Early Modern to Contemporary 3 cr.

HUM 2410  Asian Humanities 3 cr.

HUM 2420  African Humanities 3 cr.

HUM 2461  Latin-American Humanities 3 cr.

PHI 1100  Elementary Logic 3 cr.

PHI 1600  Ethics 3 cr.

PHI 2635  Biomedical Ethics 3 cr.

REL 2300  Introduction to Religion 3 cr.

Students must select at least one course in biological science and one course in physical science from the following list of courses. At least one science option must be a core option. For the additional HCC options, students may choose from the list below, or students may select any college-level science course higher than the core course options.

- American Literature to 1885
- American Literature: 1885 to Present
- American History: 1885 to Present
- World Literature to 1800
- World Literature to 1650
- Latin-American Literature
- African-American Literature
- British Literature to 1800
- British Literature: 1800 to Present
- World Literature to 1650
- World Literature: Prehistory to Early Modern Era
- World Literature: Early Modern to Contemporary
- Asian Humanities
- African Humanities
- Latin-American Humanities
- Elementary Logic
- Ethics
- Biomedical Ethics
- Introduction to Religion

If only one course was selected from the core options, choose the second course from options below:

DAN 2100  Introduction to Dance 3 cr.

HUM 2210  World Humanities: Prehistory to Early Modern Era 3 cr.

HUM 2230  World Humanities: Early Modern to Contemporary 3 cr.

HUM 2410  Asian Humanities 3 cr.

HUM 2420  African Humanities 3 cr.

HUM 2461  Latin-American Humanities 3 cr.

PHI 1100  Elementary Logic 3 cr.

PHI 1600  Ethics 3 cr.

PHI 2635  Biomedical Ethics 3 cr.

REL 2300  Introduction to Religion 3 cr.

**NOTE:** Any student who completes a mathematics course for which one of the general education core course options in mathematics is an immediate prerequisite should be considered to have completed the mathematics core. Additionally, all general education mathematics courses require college level reading and writing skills.
Core Options

BSC 1005  Biological Foundations/BSC 1005L, Biological Foundations Lab* .................................................. 4 cr.
BSC 2010  Biological Science I/BSC 2010L, Biological Science I Lab* .......................................................... 4 cr.
BSC 2085  Human Anatomy and Physiology I/BSC 2085L Human Anatomy and Physiology I Lab* .................. 4 cr.

Additional HCC Options

BSC 1025C Nutrition and Drugs ........................................ 3 cr.
BSC 1026C Reproductive Biology and Inheritance ........ 5 cr.
BSC 1092  Human Biology /BSC 1092L, Human Biology Lab ................................................................. 4 cr.
BSC 2011  Biological Science II/ BSC 2011L, Biological Science II Lab .................................................. 4 cr.
BSC 2086  Human Anatomy and Physiology II/BSC 2086L, Human Anatomy and Physiology II Lab ................ 4 cr.
PCB 1730C Human Reproduction and Inheritance ..... 3 cr.
ZOO 1010C General Zoology ........................................ 3 cr.

Physical Science

Students must select at least one course below in the physical sciences from the core option or from the additional HCC options. Students may choose a lecture/lab combination from the physical sciences and/or from the biological sciences, but they must choose a lecture/lab combination from at least one of these sciences.

Core Options

AST 1002C Astronomy ............................................... 3 cr.
CHM 1020C Chemistry and Society ................................ 3 cr.
CHM 2045  General Chemistry I/CHM 2045L, General Chemistry I Lab* ............................................. 4 cr.
ESC 1000  Earth Science/ESC 1000L, Earth Science Lab ................................................................. 4 cr.
PHY 1020C Conceptual Physics ................................... 3 cr.
PHY 2048  Physics with Calculus I/PHY 2048L, Physics with Calculus I Lab ........................................ 5 cr.
PHY 2053  General Physics I/PHY 2053L, General Physics I Lab* .................................................. 4 cr.

Additional HCC Options

CHM 2046  General Chemistry II/CHM 2046L, General Chemistry II Lab* ............................................. 4 cr.
CHM 1032  Chemistry for Health Sciences/CHM 1032L, Chemistry for Health Sciences Lab* ................ 4 cr.
CHM 2210  Organic Chemistry I/CHM 2210L, Organic Chemistry I Lab .................................................. 5 cr.
CHM 2211  Organic Chemistry II/CHM 2211L, Organic Chemistry II Lab .................................................. 5 cr.
CHS 2440 Chemistry for Engineers/CHS 2440L, Chemistry for Engineers Lab* .................................. 4 cr.
GLY 2010  Physical Geology/GLY 2010L, Physical Geology Lab* .................................................. 4 cr.
MET 2010C Meteorology ........................................... 3 cr.
OCE 2001C Introduction to Oceanography ................ 3 cr.

PHY 2049  Physics with Calculus II/PHY 2049L, Physics with Calculus II Lab ........................................... 5 cr.
PHY 2054  General Physics II/PHY 2054L, General Physics II Lab .................................................. 4 cr.

* Intended for students who plan to pursue a major in the sciences, health care, or a related field. See an advisor for specific guidelines on which courses to take.

NOTE: Any student who completes a natural science course for which one of the general education core course options in natural science is an immediate prerequisite should be considered to have completed the natural science core.

Group III – Social Science: 9 credits required

Discipline: Behavioral Science (3 credits required)

Choose one course from options below:
ANT 2000  Introduction to Anthropology ...................... 3 cr.
PSY 2012  General Psychology .................................... 3 cr.
SYG 2000  Introduction to Sociology .......................... 3 cr.

Discipline: History (3 credits required)

Choose one course from core history options or additional HCC history options below:

Core Options

AMH 2020  Modern American History ...................... 3 cr.
POS 2041  American Government ............................. 3 cr.

Additional HCC Options

AMH 2010  Early American History ........................... 3 cr.
EUH 2000  The Western World Origins to Early Modern Europe .................................................. 3 cr.
EUH 2001  The Western World: Modern Europe ........ 3 cr.
LAH 2020  Survey of Latin American History ............. 3 cr.
POS 1001  Introduction to Political Science ................. 3 cr.

Discipline: Behavioral Science, History, Economics (3 credits required)

Choose one course from core options or additional HCC options below:

Core Options

AMH 2020  Modern American History ...................... 3 cr.
ANT 2000  Introduction to Anthropology ...................... 3 cr.
ECO 2013  Principles of Macroeconomics ................... 3 cr.
POS 2041  American Government ............................. 3 cr.
PSY 2012  General Psychology .................................... 3 cr.
SYG 2000  Introduction to Sociology .......................... 3 cr.

Additional HCC Options

AMH 2010  Early American History ........................... 3 cr.
EUH 2000  The Western World Origins to Early Modern Europe .................................................. 3 cr.
EUH 2001  The Western World: Modern Europe ........ 3 cr.
LAH 2020  Survey of Latin American History ............. 3 cr.
POS 1001 Introduction to Political Science ............... 3 cr.
Civics Literacy Requirement

Per Section 1007.25, Florida Statutes, students initially entering a Florida College System institution in the 2018-19 school year and thereafter must demonstrate competency in civic literacy through one of the following options prior to graduation:
1. Successfully passing either POS 2041, American Government or AMH 2020, Modern American History.
2. Achieving the standard score on one of the following assessments:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Standard Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Government and Politics: United States</td>
<td>3</td>
</tr>
<tr>
<td>AP United States History</td>
<td>4</td>
</tr>
<tr>
<td>CLEP: American Government</td>
<td>50</td>
</tr>
</tbody>
</table>

Computer Proficiency Requirement

Computer proficiency is a core requirement of the associate in arts degree general education curriculum. Students must demonstrate computer proficiency in one of the following ways:
1. Successfully complete the approved HCC computer course, CGS 1000 (3 Credits). Successful completion requires that the student earn a grade of “C” or better in the course.
2. Provide an official transcript demonstrating successful completion of a college/university course(s) equivalent to the approved HCC course(s).
3. Pass the proficiency test administered by the college. Students should check with the counseling/advising office on their campus for specific information about fulfilling the requirement to demonstrate computer proficiency.

Foreign Language Requirement

Section 1007.262, Florida Statutes require demonstration of foreign language competency for Associate in Arts degree-seeking students. Students must demonstrate competence in foreign languages by completing two credits in one foreign language at the secondary level or the equivalent at the postsecondary level. The equivalent at the postsecondary level is defined as completing a postsecondary course at the elementary 2 level in one foreign language or in American Sign Language.

Gordon Rule Requirements

State Board of Education Rule 6A-10.030 (the Gordon Rule) is a rule stipulating requirements of student performance in both the communications and mathematics areas. Satisfactory completion of this rule requires that a student earn a grade of “C” or better in each applicable course.

Students fulfill the Gordon Rule requirement upon successful completion of the general education curriculum. Within the communications area, the student is required to complete writing assignments as designated in the instructors’ syllabi in the areas of English, humanities, history, natural science, physical science, behavioral science, and history/political science. Certain courses and disciplines have word-count requirements. Within the mathematics area, completion of the general education mathematics courses fulfills the requirement. Prerequisite courses must be completed, or appropriate test scores attained, before enrolling in Gordon Rule courses.

IDS 2891, CONNECTIONS
Course Requirement

IDS 2891, Connections, is an interdisciplinary course that allows students to synthesize key components of their general education experience. Based on the selected topics approach, the course summarizes major points in the bodies of knowledge that were acquired while students participated in the general education curriculum, and it provides opportunities for students to use the knowledge and skills gained from their general education experience in an applied manner. Required for graduation by students enrolled in the associate in arts degree program, the course involves research skills, the application of theoretical models, and the use of learned skills. Prior to taking the course, students must have completed at least 45 hours of coursework towards the degree, including at least 24 hours of general education coursework with a minimum grade of “C.”

SLS 1106, First Year Experience Course Requirement

SLS 1106, First Year Experience is a course designed to support and guide first-time-in-college students. Prior to earning 18 college credits, students in the A.A. Degree Program must enroll in SLS 1106—a three-credit, college-level course that is fully transferable and financial aid eligible. SLS 1106 will assist those new to college by pairing faculty and academic advisors in the classroom, where they will help students develop short and long-range goals, create a career-focused college completion plan, and learn about HCC’s support services. The course content emphasizes student navigation and learning engagement at the College in order help ensure that more learners persist into their second academic years and graduate on time. Students who have taken other SLS courses or who are accepted into certain programs or transfer tracks (e.g., HCC Honors Program, FUSE, AA.THE, AA.MUSIC, AA.ART, AA.GRA) may be exempt from this program requirement. Be certain to consult an academic advisor to confirm an exemption.
AA • Associate in Arts Degree

Students may pursue any combination of university transfer programs, but only one AA degree will be awarded upon satisfactory completion of 60 credit hours. Unless program restrictions apply, any transferrable course may be included and used as an AA elective. The transfer tracks included in the catalog are guidelines, and course requirements may vary by university. Advisors should be consulted to help with the student’s specific academic plan or for information on any transfer track that is not included in the HCC Catalog.

AA • Agriculture Transfer Track
AA.AGR (60 credit hours)

This transfer track is for students who want to pursue a four-year degree in agricultural fields such as agricultural-education, media, engineering, agronomy, animal science, forestry, plant science and food science. Careers include teaching, writing, sales, manufacturing, farm management, extension services, animal breeding, other jobs working directly with plants and animals as well as a variety of positions in agricultural businesses and related industries.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 1025</td>
<td>Introductory Chemistry</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CHM 1025L</td>
<td>Introductory Chemistry Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105</td>
<td>College Algebra</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SLS 1106</td>
<td>First Year Experience Orientation</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SPC 1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
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</table>

YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>†BSC 2010</td>
<td>Biological Science I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2010L</td>
<td>Biological Science I Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>CHM 2045</td>
<td>General Chemistry I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CHM 2045L</td>
<td>General Chemistry I Laboratory</td>
<td>1 cr.</td>
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<tr>
<td>†MAC 1140</td>
<td>Pre-Calculus Algebra</td>
<td>3 cr.</td>
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<tr>
<td>Behavioral Science/History/Economics General Education CORE</td>
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YEAR I – Third Semester

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
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<tr>
<td>†CGS 1160</td>
<td>Desktop Information Management</td>
<td>1 cr.</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>General Chemistry II</td>
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<tr>
<td>CHM 2046L</td>
<td>General Chemistry II Laboratory</td>
<td>1 cr.</td>
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<tr>
<td>†MAC 1114</td>
<td>Trigonometry</td>
<td>3 cr.</td>
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YEAR II – First Semester

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>†STA 2023</td>
<td>Elementary Statistics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1102</td>
<td>English Composition II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>AMH 2020</td>
<td>Modern American History or POS 2041, American Government</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†Humanities General Education CORE</td>
<td>3 cr.</td>
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YEAR II – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>†BSC 2011</td>
<td>Biological Science II</td>
<td>3 cr.</td>
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<tr>
<td>†BSC 2011L</td>
<td>Biological Science II Laboratory</td>
<td>1 cr.</td>
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<tr>
<td>†ECO 2023</td>
<td>Principles of Microeconomics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†IDS 2891</td>
<td>Connections</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†SYG 2000</td>
<td>Introduction to Sociology or †PSY 2012, General Psychology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Humanities General Education</td>
<td>3 cr.</td>
<td></td>
</tr>
</tbody>
</table>

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
AA • Anthropology Transfer Track

AA.ANT (60 credit hours)

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester

†ENC 1101 English Composition I ................................................................. 3 cr.
†ESC 1000 Earth Science ............................................................................ 3 cr.
†ESC 1000L Earth Science Laboratory ....................................................... 1 cr.
EUH 2000 The Western World: Early Modern Europe .......................... 3 cr.
†SLS 1106 First Year Experience Orientation ........................................... 3 cr.

YEAR I – Second Semester

*†ANT 2000 Introduction to Anthropology ................................................ 3 cr.
†ENC 1102 English Composition II ............................................................ 3 cr.
†MGF 1106 Topics in Mathematics ............................................................. 3 cr.
†SPC 1608 Public Speaking ........................................................................ 3 cr.

YEAR I – Third Semester

†PHI 1010 Introduction to Philosophy ......................................................... 3 cr.
†PSY 2012 General Psychology or †SYG 2000, Introduction to Sociology... 3 cr.
†STA 2023 Elementary Statistics ................................................................. 3 cr.

YEAR II – First Semester

*ANT 2511 Introduction to Biological Anthropology ............................. 3 cr.
*ANT 2511L Introduction to Biological Anthropology Laboratory .......... 1 cr.
†BSC 1092 Human Biology and BSC 1092L, Human Biology Laboratory or PCB 1730C, Human Reproduction and Inheritance ................................................................. 3-4 cr.
†HUM 2210 World Humanities: Prehistory to Early Modern Era or †HUM 2230, World Humanities: Early Modern to Contemporary ......................................................... 3 cr.
**Elective ........................................................................................................ 3 cr.

YEAR II – Second Semester

ANT 2410 Cultural Anthropology ............................................................... 3 cr.
†CGS 1000 Introduction to Computers and Technology ......................... 3 cr.
†IDS 2891 Connections ............................................................................. 1 cr.
POS 1001 Introduction to Political Science ................................................ 3 cr.
**Electives ....................................................................................................... 6 cr.

**Select 9 credit hours from the following elective course options:

AFA 1001 Introduction to Black Culture ..................................................... 3 cr.
†BSC 1005 Biological Foundations and †BSC 1005L, Biological Foundations Laboratory ......................................................... 4 cr.
†BSC 1025C Nutrition and Drugs ............................................................... 3 cr.
†BSC 2085 Human Anatomy and Physiology and †BSC 2085L, Human Anatomy and Physiology Laboratory ......................................................... 4 cr.
†CCJ 1010 Introduction to Criminology ......................................................... 3 cr.
†CHM 1020C Chemistry and Society ......................................................... 3 cr.
†EVR 1001C Introduction to Environmental Science ............................. 3 cr.
†HUM 2230 World Humanities: Early Modern to Contemporary .......... 3 cr.
HUM 2410 Asian Humanities .................................................................. 3 cr.
HUM 2420 African Humanities ................................................................ 3 cr.
HUM 2461 Latin-American Humanities .................................................. 3 cr.
MAN 2604 Intercultural Relations in Business ......................................... 3 cr.
†MUL 1010 Introduction to Music .............................................................. 3 cr.
†PHI 1010 Introduction to Philosophy ....................................................... 3 cr.
†PHI 1600 Ethics ......................................................................................... 3 cr.
†PSY 2012 General Psychology ............................................................... 3 cr.
†REL 2300 Introduction to Religion .......................................................... 3 cr.
Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Architecture Transfer Track

AA.ARC (72 credit hours)

This transfer track is for students who want to pursue a four-year degree in architectural design, interior design and landscape architecture. Careers include interior and building design, furniture and lighting design, urban planning, industrial design and sales as well as jobs in the environmental field and construction industry.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ARC 1180</td>
<td>Introduction to Digital Architecture</td>
<td>3 cr.</td>
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<tr>
<td>*ARC 1301</td>
<td>Architectural Design I</td>
<td>4 cr.</td>
</tr>
<tr>
<td>*ARC 1701</td>
<td>Survey of Architectural History I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*MAC 1105</td>
<td>College Algebra</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SLS 1106</td>
<td>First Year Experience Orientation</td>
<td>3 cr.</td>
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YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>*ARC 1302</td>
<td>Architectural Design II</td>
<td>4 cr.</td>
</tr>
<tr>
<td>*ARC 2461</td>
<td>Materials and Methods I</td>
<td>3 cr.</td>
</tr>
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<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*PHY 2053</td>
<td>General Physics I</td>
<td>3 cr.</td>
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<tr>
<td>*PHY 2053L</td>
<td>General Physics I Laboratory</td>
<td>1 cr.</td>
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YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>†ENC 1102</td>
<td>English Composition II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SPC 1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Behavioral Science/History/Economics General Education CORE</td>
<td>3 cr.</td>
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YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>*ARC 2201</td>
<td>Theory of Architecture</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*ARC 2303</td>
<td>Architectural Design III</td>
<td>5 cr.</td>
</tr>
<tr>
<td>†MAC 2233C</td>
<td>Calculus for Business and Social Science or †MAC 2311, Calculus and Analytic Geometry I</td>
<td>3-5 cr.</td>
</tr>
<tr>
<td>†Humanities General Education CORE</td>
<td>3 cr.</td>
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YEAR II – Second Semester

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<tbody>
<tr>
<td>*ARC 2304</td>
<td>Architectural Design IV</td>
<td>5 cr.</td>
</tr>
<tr>
<td>*ARC 2501</td>
<td>Architectural Structure I</td>
<td>4 cr.</td>
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<tr>
<td>Biological Science General Education</td>
<td>3-4 cr.</td>
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YEAR II – Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†IDS 2891</td>
<td>Connections</td>
<td>1 cr.</td>
</tr>
<tr>
<td>AMH 2020</td>
<td>Modern American History or POS 2041, American Government</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†Behavioral Science General Education CORE</td>
<td>3 cr.</td>
<td></td>
</tr>
<tr>
<td>Humanities General Education</td>
<td>3 cr.</td>
<td></td>
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</tbody>
</table>

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
AA • Art Transfer Track

AA.ART (60 credit hours)

This transfer track is for students who want to pursue a four-year college/university degree in such fields as fine arts, art education, art history, and design. The track offers foundation courses in studio skills and studio methods. Major studies include design, drawing, painting, sculpture, printmaking, ceramics, photography, and graphic art. Depending upon personal development, students may choose to work in a variety of art media or concentrate in a specialized area.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
*ARH 1050 Art History I ............................................................................................................................... 3 cr.
*ART 1201C Visual Studies Foundations I ................................................................................................... 3 cr.
†CGS 1000 Introduction to Computers and Technology ......................................................................... 3 cr.
†ENC 1101 English Composition I .............................................................................................................. 3 cr.
†Mathematics CORE General Education ......................................................................................... 3 cr.

YEAR I – Second Semester
*ARH 1051 Art History II ............................................................................................................................. 3 cr.
*ART 1300C Drawing I ................................................................................................................................... 3 cr.
†ENC 1102 English Composition II ............................................................................................................. 3 cr.
†Mathematics General Education ............................................................................................................. 3 cr.
†Physical Science General Education ..................................................................................................... 3-4 cr.

YEAR I – Third Semester
†SPC 1608 Public Speaking ......................................................................................................................... 3 cr.
†Behavioral Science General Education CORE ........................................................................................ 3 cr.
†Biological Science General Education ................................................................................................. 3-4 cr.

YEAR II – First Semester
*ART 1203C Visual Studies Foundations II .............................................................................................. 3 cr.
AMH 2020 Modern American History or POS 2041, American Government ...................................... 3 cr.
**Art Specified Elective ............................................................................................................................ 3 cr.
†Behavioral Science General Education CORE ........................................................................................ 3 cr.
†Humanities General Education CORE .................................................................................................. 3 cr.

YEAR II – Second Semester
*ART 2301C Drawing II ................................................................................................................................ 3 cr.
†IDS 2891 Connections ............................................................................................................................. 1 cr.
**Art Specified Elective ............................................................................................................................ 3 cr.
Behavioral Science/History/Economics General Education CORE ......................................................... 3 cr.
Humanities General Education ................................................................................................................ 3 cr.

**Select 6 credit hours from the following art specified electives:
ART 2400C Printmaking I ............................................................................................................................. 3 cr.
ART 2500C Painting I ................................................................................................................................... 3 cr.
ART 2600C Digital Art .................................................................................................................................. 3 cr.
ART 2701C Sculpture I .................................................................................................................................. 3 cr.
ART 2750C Ceramics I ................................................................................................................................... 3 cr.
PGY 2401C Photography I ............................................................................................................................ 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
AA • Biological Sciences: General, Marine, or Aquatic

AA.BIO (60 credit hours)

This transfer track is for students who want to pursue a four-year degree in biological sciences: general, marine or aquatic.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
†BSC 2010 Biological Science I ................................................................. 3 cr.
†BSC 2010L Biological Science I Laboratory ........................................ 1 cr.
*CHM 2045 General Chemistry I .............................................................. 3 cr.
*CHM 2045L General Chemistry I Laboratory ....................................... 1 cr.
†ENC 1101 English Composition I .......................................................... 3 cr.
SLS 1106 First Year Experience Orientation ......................................... 3 cr.
†Humanities General Education CORE .................................................. 3 cr.

YEAR I – Second Semester
†BSC 2011 Biological Science II ............................................................. 3 cr.
†BSC 2011L Biological Science II Laboratory ......................................... 1 cr.
*CHM 2046 General Chemistry II ............................................................ 3 cr.
*CHM 2046L General Chemistry II Laboratory ...................................... 1 cr.
*MAC 2311 Calculus and Analytic Geometry I or MAC 2233C, Calculus for Business and Social Sciences .................................................. 3-5 cr.
†ENC 1102 English Composition II ........................................................ 3 cr.
AMH 2020 Modern American History or POS 2041, American Government .......................................................... 3 cr.

YEAR I – Third Semester
†ANT 2000 Introduction to Anthropology .............................................. 3 cr.
Humanities General Education .............................................................. 3 cr.

YEAR II – First Semester
*CHM 2210 Organic Chemistry I ............................................................ 4 cr.
*CHM 2210L Organic Chemistry I Laboratory ....................................... 1 cr.
MAC 2312 Calculus and Analytic Geometry or STA 2023, Elementary Statistics .................................................. 3-5 cr.
OCB 2000 Marine Biology ................................................................. 3 cr.
OCB 2000L Marine Biology Laboratory ............................................... 1 cr.

YEAR II – Second Semester
†CGS 1000 Introduction to Computers and Technology ........................ 3 cr.
†CHM 2211 Organic Chemistry II .......................................................... 4 cr.
*CHM 2211L Organic Chemistry II Laboratory ..................................... 1 cr.
†IDS 2891 Connections ........................................................................ 1 cr.
IDS 2912L Undergraduate Research Experience in Natural Science or OCE 2001C, Introduction to Oceanography or PHY 2053, General Physics I and PHY 2053L, General Physics I Laboratory .................................................. 2-4 cr.
†PSY 2012 General Psychology ............................................................... 3 cr.
†SPC 1608 Public Speaking .................................................................... 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Building Construction Transfer Track

AA.BCN (65 credit hours)

This transfer track is for students who want to pursue a four-year degree in building construction, development, contracting or related industries. Careers include construction manager, contractor, building inspector, owning or managing a construction firm as well as a variety of jobs within the construction industry and related fields.
Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

### YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>*BCN 1210</td>
<td>Construction Materials and Processes</td>
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<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*†MAC 2233C</td>
<td>Calculus for Business &amp; Social Sciences</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SLS 1106</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*‡SPC 1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
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### YEAR I – Second Semester

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<th>Credits</th>
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<tbody>
<tr>
<td>*BCN 1250</td>
<td>Introduction to Graphic Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1102</td>
<td>English Composition II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*‡GLY 2010</td>
<td>Physical Geology</td>
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<tr>
<td>*‡GLY 2010L</td>
<td>Physical Geology Laboratory</td>
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### YEAR I – Third Semester

<table>
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<th>Course Code</th>
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<tbody>
<tr>
<td>†Behavioral Science General Education CORE</td>
<td>3 cr.</td>
<td></td>
</tr>
<tr>
<td>Biological Science General Education</td>
<td>3-4 cr.</td>
<td></td>
</tr>
<tr>
<td>†Humanities General Education CORE</td>
<td>3 cr.</td>
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### YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>*ARC 2501</td>
<td>Architectural Structures I</td>
<td>4 cr.</td>
</tr>
<tr>
<td>*†ECO 2023</td>
<td>Principles of Microeconomics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ENC 2210</td>
<td>Technical Writing</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†PHY 2053</td>
<td>General Physics I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PHY 2053L</td>
<td>General Physics I Laboratory</td>
<td>1 cr.</td>
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### YEAR II – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>†BUL 2241</td>
<td>Business Law I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>AMH 2020</td>
<td>Modern American History or POS 2041, American Government</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†STA 2023</td>
<td>Elementary Statistics</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Humanities General Education</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

### YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*†ACG 2021</td>
<td>Introduction to Financial Accounting</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†IDS 2891</td>
<td>Connections</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

### AA • Business Administration Transfer Track

**AABUS (60 credit hours)**

This transfer track is for students who want to pursue a four-year degree in business, specializing in such fields as accounting, economics, finance, insurance, marketing and management. Careers include various management positions in nearly every business and industry, such as sales, accountant, labor negotiator and business owner.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

### YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*‡CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SLS 1106</td>
<td>First Year Experience Orientation</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>
YEAI – Second Semester
†ENC 1102 English Composition II............................................................................................................. 3 cr.
*†MAC 2233C Calculus for Business and Social Science........................................................................................ 3 cr.
†Behavioral Science General Education CORE ........................................................................................................... 3 cr.
†Humanities General Education CORE ............................................................................................................... 3 cr.
YEAI – Third Semester
†SPC 1608 Public Speaking......................................................................................................................................... 3 cr.
AMH 2020 Modern American History or POS 2041, American Government .............................................. 3 cr.
YEAI – First Semester
*†ACG 2021 Introduction to Financial Accounting .................................................................................................................. 3 cr.
*†ECO 2013 Principles of Macroeconomics.................................................................................................................... 3 cr.
*†STA 2023 Elementary Statistics................................................................................................................................. 3 cr.
†Behavioral Science General Education CORE ........................................................................................................... 3 cr.
†Humanities General Education CORE ................................................................................................................... 3 cr.
YEAI – Second Semester
*†ACG 2071 Managerial Accounting ................................................................................................................................. 3 cr.
*†ECO 2023 Principles of Microeconomics.................................................................................................................... 3 cr.
IDS 2891 Connections.................................................................................................................................................... 1 cr.
**Business Electives..................................................................................................................................................... 4 cr.
†GEB 2214 Business Communications and Technology.............................................................................................. 3 cr.
†GEB 2350 Introduction to International Business Essentials ..................................................................................... 3 cr.
MAN 2021 Principles of Management .......................................................................................................................... 3 cr.
MAN 2604 Intercultural Relations in Business ........................................................................................................... 3 cr.
†MAR 2011 Principles of Marketing ................................................................................................................................. 3 cr.
†SBM 2000 Small Business Management .................................................................................................................... 3 cr.
**Select 4 credit hours of electives from the following. Elective hours are contingent on initial math sequence placement.
†BUL 2241 Business Law I................................................................................................................................................ 3 cr.
†BUL 2242 Business Law II............................................................................................................................................. 3 cr.
†ENT 1000 Introduction to Entrepreneurship ................................................................................................................... 3 cr.
FIN 1100 Personal Finance ............................................................................................................................................ 3 cr.
GEB 1011 Introduction to Business ................................................................................................................................. 3 cr.
GEB 1949 Business Internship ....................................................................................................................................... 3 cr.
†GEB 2214 Business Communications and Technology .............................................................................................. 3 cr.
†GEB 2350 Introduction to International Business Essentials ..................................................................................... 3 cr.
MAN 2021 Principles of Management .......................................................................................................................... 3 cr.
MAN 2604 Intercultural Relations in Business ........................................................................................................... 3 cr.
†MAR 2011 Principles of Marketing ................................................................................................................................. 3 cr.
†SBM 2000 Small Business Management .................................................................................................................... 3 cr.
Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Communication Transfer Track
AA.COMM (60 credit hours)

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAI – First Semester
†ENC 1101 English Composition I................................................................................................................................. 3 cr.
COM 1000 Introduction to Communication ................................................................................................................... 3 cr.
MGF 1106 Topics in Mathematics, or MGF 1107, Explorations in Mathematics or STA 2023, Elementary Statistics ....... 3 cr.
SLS 1106 First Year Experience Orientation.................................................................................................................. 3 cr.

YEAI – Second Semester
AMH 2020 Modern American History or POS 2041, American Government .............................................. 3 cr.
†ENC 1102 English Composition II................................................................................................................................. 3 cr.
†SPC 1608 Public Speaking ........................................................................................................................................... 3 cr.
Foreign Language ................................................................................................. 4 cr.
### YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 1005</td>
<td>Biological Foundations and BSC 1005L, Biological Foundations Laboratory or</td>
<td>3-4 cr.</td>
</tr>
<tr>
<td>CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>4 cr.</td>
</tr>
<tr>
<td>MGF 1106</td>
<td>Topics in Mathematics, or MGF 1107, Explorations in Mathematics or</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SYG 2000</td>
<td>Introduction to Sociology</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

### YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 1002C</td>
<td>Astronomy or CHM 1020C, Chemistry and Society</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PHI 1100</td>
<td>Elementary Logic or PHI 1600, Ethics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPC 2300</td>
<td>Interpersonal Communication</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Foreign Language II</td>
<td>4 cr.</td>
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</tbody>
</table>

### YEAR II – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDS 2891</td>
<td>Connections</td>
<td>1 cr.</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>General Psychology</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Humanities General Education CORE</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

Common Course Prerequisites recommended by the State for successful transfer to the university are marked by an asterisk (*).

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

### AA • Computer Information Systems Transfer Track

#### AA.CIS (60 credit hours)

This transfer track is for students who want to pursue a four-year degree in computer and information sciences and work in business or related fields. Careers include finance analysts, actuaries, statisticians, economists, and positions in designing, testing and implementing computer programs in various segments of business and industry, management, operations and business planning.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

#### YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105</td>
<td>College Algebra</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SLS 1106</td>
<td>First Year Experience Orientation</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Biological Science General Education</td>
<td>3-4 cr.</td>
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#### YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ENC 1102</td>
<td>English Composition II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SPC 1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>AMH 2020</td>
<td>Modern American History or POS 2041, American Government</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†Humanities General Education CORE</td>
<td>3 cr.</td>
<td></td>
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</table>

#### YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>*‡MAC 2311</td>
<td>Calculus and Analytic Geometry I</td>
<td>5 cr.</td>
</tr>
<tr>
<td>PHY 1025</td>
<td>Fundamentals of Physics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PHY 1025L</td>
<td>Fundamentals of Physics Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td></td>
<td>Behavioral Science/History/Economics General Education CORE</td>
<td>3 cr.</td>
</tr>
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</table>

#### YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*‡MAC 2312</td>
<td>Calculus and Analytic Geometry II</td>
<td>5 cr.</td>
</tr>
<tr>
<td>*PHY 2048</td>
<td>Physics w/Calculus I</td>
<td>4 cr.</td>
</tr>
<tr>
<td>*PHY 2048L</td>
<td>Physics w/Calculus Laboratory I</td>
<td>1 cr.</td>
</tr>
<tr>
<td></td>
<td>Humanities General Education</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

#### YEAR II – Second Semester
*COP 1000 Programming Logic .................................................................................................................. 3 cr.
†IDS 2891 Connections ............................................................................................................................ 1 cr.
*PHY 2049 Physics w/Calculus II ............................................................................................................... 4 cr.
*PHY 2049L Physics w/Calculus II Laboratory .......................................................................................... 1 cr.
†Behavioral Science General Education CORE .......................................................................................... 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Computer Science (Engineering) Transfer Track
AA.COMP (65 credit hours)

This transfer track is for students who want to pursue a four-year degree in computer and information engineering sciences. Careers are of a technical nature, including planning and developing new computer systems, computer programming, software development, systems analysis and technical writing.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
†CGS 1000 Introduction to Computers and Technology ........................................................................... 3 cr.
†ENC 1101 English Composition I ........................................................................................................... 3 cr.
*MAC 1147 Pre-Calculus and Trigonometry ............................................................................................... 5 cr.
SLS 1106 First Year Experience Orientation ........................................................................................... 3 cr.

YEAR I – Second Semester
*CHM 2045 General Chemistry I ................................................................................................................ 3 cr.
*CHM 2045L General Chemistry I Laboratory .............................................................................................. 1 cr.
†ENC 1102 English Composition II ........................................................................................................... 3 cr.
*†MAC 2311 Calculus and Analytic Geometry I ........................................................................................... 5 cr.

YEAR I – Third Semester
AMH 2020 Modern American History or POS 2041, American Government ........................................... 3 cr.
†Behavioral Science General Education CORE .......................................................................................... 3 cr.
†Humanities General Education CORE .................................................................................................. 3 cr.

YEAR II – First Semester
*†MAC 2312 Calculus and Analytic Geometry II ........................................................................................ 5 cr.
*PHY 2048 Physics w/Calculus I ............................................................................................................... 4 cr.
*PHY 2048L Physics w/Calculus Laboratory I ........................................................................................... 1 cr.
Behavioral Science/History/Economics General Education CORE ....................................................... 3 cr.

YEAR II – Second Semester
*†MAC 2313 Calculus and Analytic Geometry III ...................................................................................... 5 cr.
*MAP 2302 Differential Equations ............................................................................................................ 3 cr.
*PHY 2049 Physics w/Calculus II ............................................................................................................... 4 cr.
*PHY 2049L Physics w/Calculus Laboratory I ............................................................................................ 1 cr.

YEAR II – Third Semester
†IDS 2891 Connections ............................................................................................................................ 1 cr.
†SPC 1608 Public Speaking ....................................................................................................................... 3 cr.
Biological Science General Education .................................................................................................... 3-4 cr.
Humanities General Education ............................................................................................................. 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked by an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
AA • Criminology Transfer Track

AA.CRIM (60 credit hours)

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester

†ENC 1101 English Composition I.............................................................................................................. 3 cr.
PSY 2012 General Psychology OR SYG 2000, Introduction to Sociology ..................................................... 3 cr.
SLS 1106 First Year Experience Orientation................................................................................................ 3 cr.
†Humanities General Education CORE ........................................................................................................ 3 cr.
Mathematics General Education CORE.................................................................................................... 3 cr.

YEAR I – Second Semester

AMH 2020 Modern American History or POS 2041, American Government .............................................. 3 cr.
†ENC 1102 English Composition II............................................................................................................. 3 cr.
Biological Science General Education...................................................................................................... 3-4 cr.
Humanities General Education................................................................................................................ 3 cr.
Mathematics General Education.............................................................................................................. 3 cr.

YEAR I – Third Semester

†SPC 1608 Public Speaking.......................................................................................................................... 3 cr.
Behavioral Science/History/Economics General Education CORE ............................................................ 3 cr.

YEAR II – First Semester

†CCJ 1010 Introduction to Criminology or †CCJ 1020, Introduction to Criminal Justice......................... 3 cr.
Physical Science General Education .......................................................................................................... 3-4 cr.
Elective.......................................................................................................................................................... 3 cr.
Elective.......................................................................................................................................................... 3 cr.

YEAR II – Second Semester

†CGS 1000 Introduction to Computers and Technology ................................................................................ 3 cr.
†IDS 2891 Connections............................................................................................................................... 3 cr.
Elective.......................................................................................................................................................... 3 cr.
Suggested Electives:

Any HCC Criminology or Criminal Justice course with a CCJ, CJC, CJE, CJJ, or CJL prefix. See HCC Catalog or Criminal Justice Majors)

†CCJ 1488 Ethics in Criminal Justice ........................................................................................................ 3 cr.
†CCJ 2013 Introduction to Victimology .................................................................................................... 3 cr.
†CCJ 2111 Introduction to Theories of Criminal Behavior ..................................................................... 3 cr.
†CCJ 2600 Criminal Deviant Behavior in Society ..................................................................................... 3 cr.
†CCJ 2610 Introduction to Criminal Typologies........................................................................................ 3 cr.
†CCJ 2618 Forensic Psychology ................................................................................................................ 3 cr.
†CCJ 2720 Introduction to Criminal Justice Research Methods.......................................................... 3 cr.
†CJE 1000 Introduction to Law Enforcement............................................................................................ 3 cr.
†CJL 1062 Constitutional Law..................................................................................................................... 3 cr.
†CJL 1100 Criminal Law.............................................................................................................................. 3 cr.
†CJL 1500 Introduction to the Court System............................................................................................ 3 cr.
†CJL 2130 Criminal Evidence and Procedure........................................................................................... 3 cr.

Common Course Prerequisites recommended by the state for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
AA • Dance Transfer Track

AA.DAN (63 credit hours)

This transfer track is for students who wish to pursue a four-year degree in dance or further their dance training at the university level or pursue a dance career. Dance courses are rigorous and demanding, but offer students opportunities for artistic explorations, creative thinking and individual growth. The associate in arts transfer track in dance provides a comprehensive sequence of technique, choreography, repertory and analysis courses.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
*DAA 11XX OR DAA 21XX, Modern Dance Technique (I-IV) ................................................................. 2 cr.
*DAA 12XX OR DAA 22XX, Ballet Technique (I-IV) ................................................................................. 2 cr.
DAA 1680L Dance Ensemble ....................................................................................................................... 1 cr.
DAN 1600C Music for Dance ......................................................................................................................... 2 cr.
†ENC 1101 English Composition I .............................................................................................................. 3 cr.
Mathematics CORE General Education ...................................................................................................... 3 cr.

YEAR I – Second Semester
*DAA 11XX OR DAA 21XX, Modern Dance Technique (I-IV) ................................................................. 2 cr.
*DAA 12XX OR DAA 22XX, Ballet Technique (I-IV) ................................................................................. 2 cr.
DAA 1610L Dance Composition I .................................................................................................................. 2 cr.
DAA 1680L Dance Ensemble ......................................................................................................................... 1 cr.
†ENC 1102 English Composition II ............................................................................................................. 3 cr.
Mathematics General Education .................................................................................................................. 3 cr.

YEAR I – Third Semester
†CGS 1000 Introduction to Computers and Technology ........................................................................... 3 cr.
DAN 2100 Introduction to Dance .................................................................................................................. 3 cr.
†SPC 1608 Public Speaking ............................................................................................................................ 3 cr.
†Behavioral Science General Education CORE ......................................................................................... 3 cr.
Physical Science General Education ........................................................................................................... 3-4 cr.

YEAR II – First Semester
*DAA 11XX OR DAA 21XX, Modern Dance Technique (I-IV) ................................................................. 2 cr.
*DAA 12XX OR DAA 22XX, Ballet Technique (I-IV) ................................................................................. 2 cr.
DAA 1680L Dance Ensemble ......................................................................................................................... 1 cr.
DAA 2611 Dance Improvisation .................................................................................................................. 2 cr.
DAN 1750 Dance Conditioning .................................................................................................................... 2 cr.
Biological Science General Education ....................................................................................................... 3-4 cr.
Behavioral Science/History/Economics General Education ..................................................................... 3 cr.

YEAR II – Second Semester
AMH 2020 Modern American History or POS 2041, American Government ........................................ 3 cr.
ARH 1000 Understanding Visual Arts or MUL 1010, Introduction to Music or THE 1000,
Introduction to Theatre Arts ......................................................................................................................... 3 cr.
*DAA 11XX OR DAA 21XX, Modern Dance Technique (I-IV) ................................................................. 2 cr.
*DAA 12XX OR DAA 22XX, Ballet Technique (I-IV) ................................................................................. 2 cr.
DAA 1680L Dance Ensemble ......................................................................................................................... 1 cr.
†IDS 2891 Connections ............................................................................................................................... 1 cr.
**Dance Specified Elective .......................................................................................................................... 1 cr.

**Select 1 specified dance elective from the following:
DAA 1900 Dance Practicum .......................................................................................................................... 1 cr.
DAA 1931-9 Special Topics in Dance ......................................................................................................... 1 cr.
DAA 2500L Jazz Dance ................................................................................................................................. 1 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Dramatic Arts Transfer Track
AA.THE (60 credit hours)

This transfer track is for students who wish to pursue a four-year degree in drama or theatre. This program provides a foundation in acting, technical design, back stage work and production. Additional careers include directing, writing and teaching.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
†ENC 1101 English Composition I .............................................................................................................. 3 cr.
†SPC 1608 Public Speaking ......................................................................................................................... 3 cr.
*THE 1000 Introduction to Theatre Arts .................................................................................................... 3 cr.
*TTP 1110 Acting I ....................................................................................................................................... 3 cr.

Mathematics General Education CORE ............................................................................... 3 cr.

YEAR I – Second Semester
*TPA 1200 Stagecraft .................................................................................................................................... 3 cr.
*TPA 1290 Performance Workshop............................................................................................................ 3 cr.
*TTP 1160 Voice and Movement Techniques ........................................................................................... 3 cr.

Mathematics General Education ............................................................................................. 3 cr.

YEAR I – Third Semester
Biological Science General Education.................................................................................. 3-4 cr.
Humanities General Education (performing or visual arts related)................................... 3 cr.
Physical Science General Education .................................................................................... 3-4 cr.

YEAR II – First Semester
†ENC 1102 English Composition II............................................................................................................. 3 cr.
TPA 1248 Makeup for the Stage................................................................................................................ 3 cr.
*TTP 1111 Acting II ...................................................................................................................................... 3 cr.

Behavioral Science/History/Economics General Education CORE .................................. 3 cr.

YEAR II – Second Semester
AMH 2020 Modern American History or POS 2041, American Government .......................... 3 cr.
†IDS 2891 Connections .............................................................................................................................. 1 cr.
*THE 1304 Script Analysis ........................................................................................................................... 3 cr.
†Behavioral Science General Education CORE ........................................................................... 3 cr.

Humanities Elective (performing or visual arts related) ..................................................... 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Education/Teacher Preparation Transfer Track
AA.EDU (60 credit hours)

This transfer track is for students who want to pursue a four-year degree in education. Students planning to become classroom teachers must have a standard high school diploma or a GED.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
†EDF 1005 Introduction to the Teaching Profession .................................................................................. 3 cr.
†ENC 1101 English Composition I ................................................................. 3 cr.
†MAC 1105 College Algebra ........................................................................... 3 cr.
SLS 1106 First Year Experience Orientation ................................................ 3 cr.
†Behavioral Science General Education CORE ........................................... 3 cr.

YEAR I – Second Semester
*†EDF 2085 Introduction to Diversity for Educators .................................... 3 cr.
†ENC 1102 English Composition II .............................................................. 3 cr.
†MGF 1106 Topics in Mathematics ............................................................... 3 cr.
†SPC 1608 Public Speaking ........................................................................... 3 cr.

YEAR I – Third Semester
Behavioral Science/History/Economics General Education CORE ............. 3 cr.
†Humanities General Education CORE ......................................................... 3 cr.
**International or Diversity Focused Elective .............................................. 3 cr.

YEAR II – First Semester
AMH 2020 Modern American History or POS 2041, American Government .. 3 cr.
†MGF 1107 Explorations in Mathematics ..................................................... 3 cr.
Biological Science General Education ....................................................... 3-4 cr.
**Electives ................................................................................................. 6 cr.

YEAR II – Second Semester
*†EME 2040 Introduction to Technology for Educators ............................... 3 cr.
†IDS 2891 Connections ................................................................................ 3 cr.
Humanities General Education .................................................................... 3 cr.
Physical Science General Education .......................................................... 3-4 cr.
**International or Diversity Focused Elective .............................................. 3 cr.

**Select 6 credit hours from the following international or diversity focused courses: (Any approved general education course previously listed, but not used to satisfy another general education requirement may be used to fulfill this area.)
†ANT 2000 Introduction to Anthropology .................................................... 3 cr.
*ANT 2410 Cultural Anthropology .............................................................. 3 cr.
†ARH 1000 Understanding Visual Art ......................................................... 3 cr.
ARH 1050 Art History I .............................................................................. 3 cr.
ARH 1051 Art History II .......................................................... 3 cr.
DAN 2100 Introduction to Dance ................................................................. 3 cr.
†HUM 2210 World Humanities: Prehistory to Early Modern Era ............... 3 cr.
†HUM 2230 World Humanities: Early Modern to Contemporary ............... 3 cr.
HUM 2410 Asian Humanities .................................................................... 3 cr.
HUM 2420 African Humanities .................................................................. 3 cr.
HUM 2461 Latin-American Humanities ..................................................... 3 cr.
LAH 2020 Survey of Latin-American History ............................................ 3 cr.
†MUL 1010 Introduction to Music ................................................................. 3 cr.
†PHI 1010 Introduction to Philosophy .......................................................... 3 cr.
PHI 1100 Elementary Logic .......................................................................... 3 cr.
†PHI 1600 Ethics .......................................................................................... 3 cr.
†PSY 2012 General Psychology .................................................................... 3 cr.
†REL 2300 Introduction to Religion ............................................................. 3 cr.
†SYG 2000 Introduction to Sociology .......................................................... 3 cr.
THE 1000 Introduction to Theatre Arts ....................................................... 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Engineering Transfer Track

AA.ENG (60 credit hours)

This transfer track is for students who want to pursue a four-year degree in electrical, mechanical, civil, computer science, aerospace, nuclear, agricultural, industrial and environmental engineering. Options in surveying and mapping and materials
design and testing are also available. Careers include positions in the areas of design, testing, research, architecture, electronics, robotics, manufacturing, sales, construction management and technical writing.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

**YEAR I – First Semester**

†ENC 1101 English Composition I ................................................................. 3 cr.

*†MAC 2311 Calculus and Analytic Geometry I ........................................... 5 cr.

SLS 1106 First Year Experience Orientation .............................................. 3 cr.

†Behavioral Science General Education CORE ......................................... 3 cr.

†Biological Science General Education ..................................................... 3 cr.

**YEAR I – Second Semester**

CHM 2045 General Chemistry I ................................................................. 3 cr.

CHM 2045L General Chemistry I Laboratory .............................................. 1 cr.

†ENC 1102 English Composition II ............................................................ 3 cr.

†MAC 2312 Calculus and Analytic Geometry II .......................................... 5 cr.

**YEAR I – Third Semester**

AMH 2020 Modern American History or POS 2041, American Government 3 cr.

Behavioral Science/History/Economics General Education CORE .......... 3 cr.

†Humanities General Education CORE .................................................... 3 cr.

**YEAR II – First Semester**

†MAC 2313 Calculus and Analytic Geometry III ........................................ 5 cr.

*PHY 2048 General Physics with Calculus I and PHY 2048L, General Physics with
   Calculus I Laboratory or PHY 2053, General Physics I and PHY 2053L, General
   Physics I Laboratory ............................................................................ 4-5 cr.

†SPC 1608 Public Speaking ......................................................................... 3 cr.

**YEAR II – Second Semester**

†CGS 1000 Introduction to Computers and Technology ............................ 3 cr.

†IDS 2891 Connections ............................................................................. 1 cr.

MAP 2302 Differential Equations .............................................................. 3 cr.

*PHY 2049 General Physics with Calculus II and PHY 2049L, General Physics with
   Calculus II Laboratory or PHY 2054, General Physics II and PHY 2054, General
   Physics II Laboratory .......................................................................... 4-5 cr.

Humanities General Education ................................................................. 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

**AA • Entrepreneurship Transfer Track**

**AA.ENT (60 credit hours)**

This transfer track is for students interested in pursuing an entrepreneurship degree that is separate from the college of business. This experiential track provides students with the opportunity to engage in ideation, business and financial modeling, effectuation, rapid prototyping, and design thinking. Careers include 21st Century Management, entrepreneurship, and self-employment.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

**YEAR I – First Semester**

†*CGS 1000 Introduction to Computers and Technology ............................ 3 cr.

†ENC 1101 English Composition I ............................................................ 3 cr.

MAC 1105 College Algebra ....................................................................... 3 cr.
SLS 1106  First Year Experience Orientation ................................................................. 3 cr.

YEAR I – Second Semester
†ENC 1102  English Composition II ............................................................................. 3 cr.
*STA 2023  Elementary Statistics ................................................................................... 3 cr.
†Behavioral Science General Education CORE .............................................................. 3 cr.
†Humanities General Education CORE ........................................................................ 3 cr.

YEAR I – Third Semester
AMH 2020  Modern American History or POS 2041, American Government .............. 3 cr.
†SPC 1608  Public Speaking ........................................................................................... 3 cr.
Biological Science General Education .......................................................................... 3 cr.

YEAR II – First Semester
†ECO 2013  Principles of Macroeconomics ................................................................. 3 cr.
ENT 1000  Introduction to Entrepreneurship ............................................................... 3 cr.
ENT 1031  Entrepreneurial Marketing and Sales or ENT 1411, Small Business Accounting and Finance or ENT 1012 Entrepreneurship Management or ENT 1612, Creativity, Innovation, and Human Centered Design ...................................................... 3 cr.
Humanities General Education ...................................................................................... 3 cr.

YEAR II – Second Semester
†ECO 2023  Principles of Microeconomics ................................................................. 3 cr.
ENT 1031  Entrepreneurial Marketing and Sales or ENT 1411, Small Business Accounting and Finance or ENT 1012 Entrepreneurship Management or ENT 1612, Creativity, Innovation, and Human Centered Design ...................................................... 6 cr.
IDS 2891  Connections ............................................................................................... 1 cr.
Physical Science ........................................................................................................... 3-4 cr.
General Elective ............................................................................................................. 1 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).† Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Exercise Science Transfer Track
AA.EXS (60 credit hours)

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
BSC 2085  Human Anatomy and Physiology I ................................................................. 3 cr.
BSC 2085L  Human Anatomy and Physiology I Laboratory ....................................... 1 cr.
†ENC 1101  English Composition I .......................................................................... 3 cr.
HSC 2100  Health Education ..................................................................................... 3 cr.
MAC 1105  College Algebra ....................................................................................... 3 cr.
SLS 1106  First Year Experience Orientation ................................................................. 3 cr.

YEAR I – Second Semester
BSC 2086  Human Anatomy and Physiology II ............................................................. 3 cr.
BSC 2086L  Human Anatomy and Physiology II Laboratory ..................................... 1 cr.
†CGS 1000  Introduction to Computers and Technology .......................................... 3 cr.
HLP 1081  Health Analysis ......................................................................................... 3 cr.
PEM class ...................................................................................................................... 2 cr.
†Humanities General Education CORE ........................................................................ 3 cr.

YEAR I – Third Semester
PSY 2012  General Psychology .................................................................................... 3 cr.

YEAR II – First Semester
CHM 2045  General Chemistry I .................................................................................. 3 cr.
The completion of this transfer track does not guarantee admission to an upper division limited access program. Students must have completed all required core courses and continue to the intermediate level. This is normally a 4 semester sequence. Directors of IDS 2891 are degree completion. For each transfer track, IDS 2891 is a degree completion. For each transfer track, IDS 2891 is a degree requirement.

**YEAR II – Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>IDS 2891</td>
<td>Connections</td>
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<tr>
<td>HSC 2400</td>
<td>First Aid/CPR</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SPC 1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†STA 2023</td>
<td>Elementary Statistics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>POS 2041</td>
<td>American Government</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Humanities General Education</td>
<td></td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

### AA • Foreign Language Transfer Track

**AA.FORL (60 credit hours)**

This transfer track is designed to assist students who plan to transfer to a Florida public university as a junior to complete a four-year bachelor’s degree with a major or minor in a Foreign Language. The Foreign Language transfer track builds competencies in listening, speaking, reading, writing and culture. Students begin at the elementary language level and continue to the intermediate level. This is normally a 4 semester sequence. Proficiency at the intermediate level is required to enter a bachelor's degree program with a major or minor in a Foreign Language. In addition to the required language core courses, students will have the opportunity to choose elective interdisciplinary courses that further develop their cultural, social and historical knowledge. This broad interdisciplinary approach can lead to a variety of career paths, such as government and international affairs, business, journalism, service professions, education, criminal justice, social sciences and public health. Students who plan to transfer to a limited access program are responsible for completing the specific requirements of the institution to which they will transfer since completion of this transfer track does not guarantee admission to an upper division limited access program. Students in this transfer track must complete all required college-preparatory courses, prerequisites for the listed course requirements. Courses meeting the preceding requirements may be in addition to the 60 credit hours listed.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105</td>
<td>College Algebra</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SLS 1106</td>
<td>First Year Experience Orientation</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*Foreign Language I (FRE or GER or ITA or SPN)</td>
<td></td>
<td>4 cr.</td>
</tr>
<tr>
<td>†Humanities General Education CORE</td>
<td></td>
<td>3 cr.</td>
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</table>

**YEAR I – Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>†ENC 1102</td>
<td>English Composition II</td>
<td>3 cr.</td>
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<tr>
<td>†STA 2023</td>
<td>Elementary Statistics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*Foreign Language II (FRE or GER or ITA or SPN)</td>
<td></td>
<td>4 cr.</td>
</tr>
<tr>
<td>Physical Science General Education</td>
<td></td>
<td>3-4 cr.</td>
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**YEAR I – Third Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AMH 2020</td>
<td>Modern American History or POS 2041, American Government</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†Behavioral Science General Education CORE</td>
<td></td>
<td>3 cr.</td>
</tr>
<tr>
<td>Biological Science General Education</td>
<td></td>
<td>3-4 cr.</td>
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**YEAR II – First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANT 2410</td>
<td>Cultural Anthropology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†LIN 1670</td>
<td>English Grammar and Usage</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†HUM 2210</td>
<td>World Humanities: Prehistoric to Early Modern Era or †HUM 2230, World Humanities</td>
<td></td>
</tr>
</tbody>
</table>
Early Modern to Contemporary or HUM 2461, Latin American Humanities .......... 3 cr.
*Foreign Language III FRE or GER or ITA or SPN not previously taken) ................. 4 cr.

**YEAR II – Second Semester**

†IDS 2891 Connections .................................................................................................. 1 cr.
‡SPC 1608 Public Speaking .............................................................................................. 3 cr.
‡SYG 2012 Introduction to Globalization .......................................................................... 3 cr.
*Foreign Language IV (FRE or GER or ITA or SPN not previously taken) ................. 4 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked by an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

**AA • Graphic Design Transfer Track**

**AA.GRA (60 credit hours)**

This transfer track is for students who wish to pursue a four-year degree in graphic arts or commercial arts. Careers include creating graphics for newspapers, television, Web pages, magazines or any media format.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

**YEAR I – First Semester**

*ART 1201C Visual Studies Foundations I ................................................................. 3 cr.
*ART 1300C Drawing I ................................................................................................. 3 cr.
†CGS 1000 Introduction to Computers and Technology .............................................. 3 cr.
†ENC 1101 English Composition I .................................................................................. 3 cr.
Mathematics General Education CORE ...................................................................... 3 cr.

**YEAR I – Second Semester**

ARH 1050 Art History I or ARH 1051, Art History II ...................................................... 3 cr.
†ENC 1102 English Composition II ............................................................................... 3 cr.
*PGY 2401C Photography I .......................................................................................... 3 cr.
†Humanities General Education CORE ......................................................................... 3 cr.

**YEAR I – Third Semester**

†SPC 1608 Public Speaking .......................................................................................... 3 cr.
†Behavioral Science General Education CORE ........................................................... 3 cr.
Biological Science General Education .......................................................................... 3 cr.
Mathematics General Education .................................................................................. 3 cr.

**YEAR II – First Semester**

AMH 2020 Modern American History or POS 2041, American Government ................. 3 cr.
*GRA 2111C Graphic Design .......................................................................................... 3 cr.
PGY 2801C Digital Photography I .................................................................................. 3 cr.
Physical Science General Education ............................................................................. 3 cr.

**YEAR II – Second Semester**

ART 2600C Digital Art ...................................................................................................... 3 cr.
*GRA 2156C Digital Illustration or GRA 2206C, Introduction to Typography ............... 3 cr.
†IDH 2891 Connections ................................................................................................. 1 cr.
Behavioral Science/History/Economics General Education CORE .............................. 3 cr.
Humanities General Education ....................................................................................... 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked by an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
AA • History Transfer Track

AA.HIS (60 credit hours)

This transfer track is for students who want to pursue a four-year college/university degree in such fields as history, humanities, education, pre-law, political science, museum studies, journalism, library science, archeology/classics or international studies programs. This transfer track is broadly designed to allow students to cater the major to their own interests, however, students are encouraged to meet with a full-time history faculty member to discuss their program interests in their first semester at HCC.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
†AMH 2020  Modern American History................................................................. 3 cr.
†ENC 1101  English Composition I.................................................................... 3 cr.
SLS 1106  First Year Experience Orientation.................................................... 3 cr.
†Humanities General Education CORE ............................................................ 3 cr.
Mathematics General Education CORE ........................................................... 3 cr.

YEAR I – Second Semester
*†AMH 2010  Early American History or EUH 2000, Western World: Origins to Early Modern Europe or EUH 2001, Western World: Modern Europe or LAH 2020, Latin-American History ................................................................. 3 cr.
†ENC 1102  English Composition II.................................................................... 3 cr.
†SPC 1608  Public Speaking ............................................................................. 3 cr.
Mathematics General Education ..................................................................... 3 cr.

YEAR I – Third Semester
*†AMH 2010  Early American History or EUH 2000, Western World: Origins to Early Modern Europe or EUH 2001, Western World: Modern Europe or LAH 2020, Latin-American History General Education (not previously taken). 3 cr.
**Elective ........................................................................................................ 3 cr.
Humanities General Education ..................................................................... 3 cr.

YEAR II – First Semester
*†AMH 2010  Early American History or EUH 2000, Western World: Origins to Early Modern Europe or EUH 2001, Western World: Modern Europe or LAH 2020, Latin-American History (not previously taken) ................................................................. 3 cr.
†Behavioral Science General Education CORE ............................................... 3 cr.
Biological Science General Education ......................................................... 3-4 cr.
**Elective ........................................................................................................ 3 cr.

YEAR II – Second Semester
*AMH 2010  Early American History or EUH 2000, Western World: Origins to Early Modern Europe or EUH 2001, Western World: Modern Europe or LAH 2020, Latin-American History General Education (not previously taken) ................................................................. 3 cr.
†CGS 1000  Introduction to Computers and Technology ................................... 3 cr.
†IDS 2891  Connections..................................................................................... 1 cr.
Physical Science General Education ......................................................... 3-4 cr.
**Electives....................................................................................................... 6 cr.

**Select 12 credit hours from the following not previously taken:
AMH 2051  U.S. Military History....................................................................... 3 cr.
AMH 2090  History of Women in the United States........................................ 3 cr.
†ANT 2000  Introduction to Anthropology......................................................... 3 cr.
†ARH 1000  Understanding Visual Art................................................................. 3 cr.
ARH 1050  Art History I..................................................................................... 3 cr.
ARH 1051  Art History II .................................................................................. 3 cr.
†ECO 2013  Principles of Macroeconomics...................................................... 3 cr.
†HUM 2210  World Humanities: Pre-Historic to Early Modern...................... 3 cr.
†HUM 2230 World Humanities: Early Modern to Contemporary .................................................. 3 cr.
HUM 2410 Asian Humanities .................................................................................................. 3 cr.
HUM 2420 African Humanities .............................................................................................. 3 cr.
HUM 2461 Latin-American Humanities .................................................................................. 3 cr.
†PHI 1010 Introduction to Philosophy .................................................................................... 3 cr.
†PHI 1600 Ethics .................................................................................................................... 3 cr.
POS 1001 Introduction to Political Science ............................................................................ 3 cr.
†POS 2041 American Government .......................................................................................... 3 cr.
†SYG 2000 Introduction to Sociology ..................................................................................... 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Hospitality Administration Management Transfer Track
AA.HOS.ADMIN.MGMT (60 credit hours)

This transfer track is for students who want to pursue a four-year degree in hospitality administration management. It allows a student the ability to complete the 36 hours of general education while meeting the common prerequisite requirements for university admission into the hospitality administration program.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester

*†CGS 1000 Introduction to Computers and Technology ......................................................... 3 cr.
†ENC 1101 English Composition I ............................................................................................ 3 cr.
†MAC 1105 College Algebra ...................................................................................................... 3 cr.
SLS 1106 First Year Experience Orientation ........................................................................... 3 cr.
†Humanities General Education CORE .................................................................................. 3 cr.

YEAR I – Second Semester

†ENC 1102 English Composition II ............................................................................................ 3 cr.
*†HFT 1000 Introduction to Hospitality Industry Management .................................................. 3 cr.
*†MAC 2233C Calculus for Business and Social Science ............................................................. 3 cr.
†Behavioral Science General Education CORE ......................................................................... 3 cr.

YEAR I – Third Semester

*†ECO 2013 Principles of Macroeconomics .............................................................................. 3 cr.
†SPC 1608 Public Speaking ......................................................................................................... 3 cr.
*†STA 2023 Elementary Statistics ............................................................................................. 3 cr.
Biological Science General Education ......................................................................................... 3-4 cr.

YEAR II – First Semester

*†ACG 2021 Introduction to Financial Accounting ................................................................. 3 cr.
*†ECO 2023 Principals of Microeconomics .............................................................................. 3 cr.
Humanities General Education .................................................................................................. 3 cr.
Physical Science General Education ......................................................................................... 3-4 cr.

YEAR II – Second Semester

*†ACG 2071 Managerial Accounting ....................................................................................... 3 cr.
AMH 2020 Modern American History or POS 2041, American Government ..................... 3 cr.
†IDS 2891 Connections ............................................................................................................. 1 cr.
Hospitality Administration Management Related Elective ................................................... 6 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Humanities Transfer Track
AA.HUM (60 credit hours)
This transfer track is for students who want to pursue a four-year degree in Humanities.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester

†ENC 1101 English Composition I .............................................................................................................. 3 cr.
SLS 1106 First Year Experience Orientation ........................................................................................... 3 cr.
†Behavioral Science General Education CORE ...................................................................................... 3 cr.
Biological Science General Education .................................................................................................. 3-4 cr.
Mathematics General Education CORE ............................................................................................... 3 cr.

YEAR I – Second Semester

†ENC 1102 English Composition II ............................................................................................................ 3 cr.
HUM 1020 Introduction to Humanities .................................................................................................... 3 cr.
Mathematics General Education ........................................................................................................... 3 cr.
Physical Science General Education .................................................................................................... 3 cr.

YEAR I – Third Semester

**Humanities Electives ..................................................................................................................... 9 cr.

YEAR II – First Semester

AMH 2020 Modern American History or POS 2041, American Government ........................................ 3 cr.
EUH 2000 The Western World: Origins to Early Modern Europe .......................................................... 3 cr.
†HUM 2210 World Humanities: Prehistory to Early Modern Era or
†HUM 2230, World Humanities: Early Modern to Contemporary .......................................................... 3 cr.
**Humanities Electives ..................................................................................................................... 3 cr.

YEAR II – Second Semester

†CGS 1000 Introduction to Computers and Technology ............................................................................ 3 cr.
†IDS 2891 Connections .......................................................................................................................... 1 cr.
†SPC 1608 Public Speaking .................................................................................................................... 3 cr.
**Humanities Electives ..................................................................................................................... 9 cr.

**Select 21 credit hours of humanities courses from the following if not previously taken:

†ARH 1000 Understanding Visual Art .................................................................................................... 3 cr.
DAN 2100 Introduction to Dance ........................................................................................................... 3 cr.
HUM 1020 Introduction to Humanities ................................................................................................ 3 cr.
†HUM 2210 World Humanities: Prehistory to Early Modern Era ............................................................. 3 cr.
†HUM 2230 World Humanities: Early Modern to Contemporary .......................................................... 3 cr.
HUM 2410 Asian Humanities ................................................................................................................ 3 cr.
HUM 2420 African Humanities ............................................................................................................. 3 cr.
HUM 2461 Latin-American Humanities .................................................................................................. 3 cr.
†LIT 2000 Introduction to Literature ...................................................................................................... 3 cr.
†MUL 1010 Introduction to Music ........................................................................................................... 3 cr.
PHI 1100 Elementary Logic ................................................................................................................... 3 cr.
†PHI 1600 Ethics ..................................................................................................................................... 3 cr.
†REL 2300 Introduction to Religion ........................................................................................................ 3 cr.
THE 1000 Introduction to Theatre Arts .................................................................................................. 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Liberal Arts and Sciences Transfer Track

AA.LA (60 credit hours)

This transfer track is for students who want to pursue a four-year degree in liberal arts or a variety of fields. Depending upon the focus of study, careers are available in such fields as linguistics, criminal justice, history, ethnic studies, foreign language, social sciences, journalism and computer science.
Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>AMH 2020</td>
<td>Modern American History or POS 2041, American Government</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SLS 1106</td>
<td>First Year Experience Orientation</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Mathematics General Education CORE</td>
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</tr>
<tr>
<td></td>
<td>Electives</td>
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YEAR I – Second Semester

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<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<td>ENC 1102</td>
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<td>3 cr.</td>
</tr>
<tr>
<td>SPC 1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Behavioral Science/History/Economics General Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Mathematics General Education</td>
<td>3 cr.</td>
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YEAR I – Third Semester

<table>
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YEAR II – First Semester

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<tr>
<td></td>
<td>Behavioral Science General Education CORE</td>
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<tr>
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<td>Biological Science General Education</td>
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<td>Electives</td>
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</tr>
<tr>
<td></td>
<td>Humanities General Education CORE</td>
<td>3 cr.</td>
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YEAR II – Second Semester

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<tr>
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<tr>
<td>CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>IDS 2891</td>
<td>Connections</td>
<td>1 cr.</td>
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<tr>
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<td>Humanities General Education</td>
<td>3 cr.</td>
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<td>Physical Science General Education</td>
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<td>Electives</td>
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</table>

Common Course Prerequisites recommended by the State for successful transfer to the university are marked by an asterisk (*).

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Mass Communication Transfer Track

AA.MMC (60 credit hours)

This transfer track is for students who want to pursue a four-year degree in mass communications, journalism, advertising, public relations, education and telecommunications.

Careers include writing for various media, broadcasting, corporate communications, spokesperson for governmental agencies, various jobs such as copy writing within the advertising and public relations fields, video and audio-visual production and sales and political lobbyist.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester

<table>
<thead>
<tr>
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<tr>
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<td>MMC 2000</td>
<td>Introduction to Mass Communications</td>
<td>3 cr.</td>
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<tr>
<td>PHI 1100</td>
<td>Elementary Logic</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SLS 1106</td>
<td>First Year Experience Orientation</td>
<td>3 cr.</td>
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<td>Mathematics General Education CORE</td>
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YEAR I – Second Semester

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<tr>
<td>ENC 1102</td>
<td>English Composition II</td>
<td>3 cr.</td>
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JOU 1400L Journalism Lab................................................................. 1 cr.
MMC 2100C Writing for Mass Communications................................................................. 3 cr.
†STA 2023 Elementary Statistics.......................................................................................... 3 cr.

YEAR I – Third Semester
†ECO 2013 Principles of Macroeconomics................................................................. 3 cr.
POS 2112 State and Local Government ........................................................................ 3 cr.
PUR 2003 Introduction to Public Relations..................................................................... 3 cr.
†SPC 1608 Public Speaking............................................................................................. 3 cr.

YEAR II – First Semester
†ANT 2000 Introduction to Anthropology or †SYG 2000, Introduction to Sociology .......... 3 cr.
JOU 1400L Journalism Lab......................................................................................... 1 cr.
JOU 2100C Journalistic Writing and Reporting................................................................ 3 cr.
Biological Science General Education............................................................................ 3 - 4 cr.
†Humanities General Education CORE ........................................................................ 3 cr.

YEAR II – Second Semester
†CGS 1000 Introduction to Computers and Technology.............................................. 3 cr.
†IDS 2891 Connections................................................................................................. 1 cr.
ENC 2341C Magazine Writing and Design.................................................................... 3 cr.
JOU 1949 Journalism Internship.................................................................................... 3 cr.
Physical Science General Education............................................................................. 3 - 4 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked by an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Math: Education/Teacher Preparation Transfer Track
AA.MATH.EDU (60 credit hours)

This transfer track is for students who want to pursue a four-year degree in mathematics education. Students planning to become classroom teachers must have a standard high school diploma or a GED.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
AMH 2020 Modern American History or POS 2041, American Government ......................... 3 cr.
†ENC 1101 English Composition I.............................................................................. 3 cr.
*†MAC 2311 Calculus and Analytical Geometry I.................................................................. 5 cr.
SLS 1106 First Year Experience Orientation........................................................................ 3 cr.
†SPC 1608 Public Speaking............................................................................................. 3 cr.

YEAR I – Second Semester
*†EDF 1005 Introduction to the Teaching Profession....................................................... 3 cr.
†ENC 1102 English Composition II............................................................................. 3 cr.
*†MAC 2312 Calculus and Analytic Geometry II .................................................................. 5 cr.
Biological Science General Education............................................................................ 3 - 4 cr.

YEAR I – Third Semester
Behavioral Science/History/Economics General Education CORE.............................................. 3 cr.
†Humanities General Education CORE .............................................................................. 3 cr.
Physical Science General Education............................................................................. 3 - 4 cr.

YEAR II – First Semester
*†EME 2040 Introduction to Technology for Educators....................................................... 3 cr.
†Behavioral Science General Education CORE.................................................................. 3 cr.
**Elective ..................................................................................................................... 3 cr.
Humanities General Education......................................................................................... 3 cr.

YEAR II – Second Semester
**Select 6 credit hours from the following international or diversity focused courses:**
(Any approved general education course previously listed, but not used to satisfy another general education requirement may be used to fulfill this area.)

**Elective .................................................................................................................. 3 cr.**

AA • Mathematics Transfer Track

**AA.MATH (60 credit hours)**

This transfer track is for students who want to pursue a four-year degree in Mathematics.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AMH 2020</td>
<td>Modern American History or POS 2041, American Government</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*MAC 1140</td>
<td>Pre-Calculus Algebra</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SLS 1106</td>
<td>First Year Experience Orientation</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SPC 1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
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YEAR I – Second Semester

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>†ENC 1102</td>
<td>English Composition II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1114</td>
<td>Trigonometry</td>
<td>3 cr.</td>
</tr>
<tr>
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<td>*Physical Science General Education</td>
<td>3-4 cr.</td>
</tr>
<tr>
<td></td>
<td>†Humanities General Education CORE</td>
<td>3 cr.</td>
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YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*MAC 2311</td>
<td>Calculus and Analytical Geometry I</td>
<td>5 cr.</td>
</tr>
<tr>
<td></td>
<td>**Biological Science General Education</td>
<td>3-4 cr.</td>
</tr>
</tbody>
</table>

YEAR II – First Semester
*COP 1000  Programming Logic .................................................................................................................. 3 cr.
*†MAC 2312  Calculus and Analytic Geometry II ........................................................................................ 5 cr.
†Behavioral Science General Education CORE ....................................................................................... 3 cr.
Humanities General Education ................................................................................................................ 3 cr.

YEAR II – Second Semester
†IDS 2891  Connections ................................................................................................................................ 1 cr.
*†MAC 2313  Calculus and Analytic Geometry III ......................................................................................... 5 cr.
*MAP 2302  Differential Equations ................................................................................................................ 3 cr.
Behavioral Science/History/Economics CORE ........................................................................................ 3 cr.
Elective ......................................................................................................................................................... 3 cr.

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†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
AA • Medical Sciences: Dental, Medical and Veterinary Transfer Track

AA.DENT, AA.MED, AA.VET (60 credit hours)

This transfer track is for students who want to pursue a four-year degree and/or professional programs in these fields. Depending upon the chosen degree, careers include dentist, physician, chiropractor, pharmacist, veterinarian and teacher, plus a variety of other jobs in related fields such as physical or occupational therapist, researcher and salesperson.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>†BSC 2010</td>
<td>Biological Science I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>BSC 2010L</td>
<td>Biological Science I Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>*CHM 2045</td>
<td>General Chemistry I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*CHM 2045L</td>
<td>General Chemistry I Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105</td>
<td>College Algebra</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SLS 1106</td>
<td>First Year Experience Orientation</td>
<td>3 cr.</td>
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YEAR I – Second Semester

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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>†ENC 1102</td>
<td>English Composition II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MAC 1147</td>
<td>Pre-Calculus Algebra and Trigonometry or MAC 1114, Trigonometry and MAC 1140, Pre-calculus Algebra</td>
<td>5-6 cr.</td>
</tr>
<tr>
<td>†Humanities General Education CORE</td>
<td>3 cr.</td>
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</tr>
<tr>
<td>Behavioral Science/History/Economics General Education CORE</td>
<td>3 cr.</td>
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YEAR I – Third Semester

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>AMH 2020</td>
<td>Modern American History or POS 2041, American Government</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2011</td>
<td>Biological Science II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2011L</td>
<td>Biological Science II Lab</td>
<td>1 cr.</td>
</tr>
<tr>
<td>*CHM 2046</td>
<td>General Chemistry II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*CHM 2046L</td>
<td>General Chemistry II Laboratory</td>
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YEAR II – First Semester

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<td>CHM 2210</td>
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<tr>
<td>CHM 2210L</td>
<td>Organic Chemistry I Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>*PHY 2053</td>
<td>General Physics I</td>
<td>3 cr.</td>
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<tr>
<td>*PHY 2053L</td>
<td>General Physics I Lab</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†STA 2023</td>
<td>Elementary Statistics</td>
<td>3 cr.</td>
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YEAR II – Second Semester

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<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
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<tr>
<td>†IDS 2891</td>
<td>Connections</td>
<td>1 cr.</td>
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<tr>
<td>PHY 2054</td>
<td>General Physics II</td>
<td>3 cr.</td>
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<td>PHY 2054L</td>
<td>General Physics II Lab</td>
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<td>†SPC 1608</td>
<td>Public Speaking</td>
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<td>†Behavioral Science General Education CORE</td>
<td>3 cr.</td>
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<tr>
<td>Humanities General Education</td>
<td>3 cr.</td>
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</table>

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AA • Music Transfer Track

AA.MUSIC (65 credit hours)

This transfer track is for students who want to pursue a four-year degree in music, music education, therapy, publishing, or music history. Careers include performing, composing, teaching, music therapy, music critic, booking agent, concert manager, publishing, sales, music storeowner, instrument repair, and audio or sound technician.
Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

MUS 1010 is required of all students enrolled in applied music courses.

Music majors must demonstrate piano proficiency by exam. If proficiency is lacking, the student must take class piano, MVK 1111 (A & B).

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MUL 1010</td>
<td>Introduction to Music</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MUN XXXX</td>
<td>Performance</td>
<td>1 cr.</td>
</tr>
<tr>
<td>MUS 1010</td>
<td>Recital Attendance</td>
<td>0 cr.</td>
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<tr>
<td>MUT 1111</td>
<td>Music Theory I</td>
<td>3 cr.</td>
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<td>MUT 1241L</td>
<td>Sight Singing and Ear Training I</td>
<td>1 cr.</td>
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<tr>
<td>MV_</td>
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**YEAR I – Second Semester**

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<td>†ENC 1102</td>
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<td>Performance</td>
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<td>MUS 1010</td>
<td>Recital Attendance</td>
<td>0 cr.</td>
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<td>MUT 1112</td>
<td>Music Theory II</td>
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<tr>
<td>MUT 1242L</td>
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<td>1 cr.</td>
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<td>MV_</td>
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**YEAR I – Third Semester**

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<tr>
<td>AMH 2020</td>
<td>Modern American History or POS 2041, American Government</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SPC 1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†Behavioral Science General Education CORE</td>
<td>3 cr.</td>
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<tr>
<td>Biological Science General Education</td>
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**YEAR II – First Semester**

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<th>Course Title</th>
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<tr>
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<tr>
<td>MUS 1010</td>
<td>Recital Attendance</td>
<td>0 cr.</td>
</tr>
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<td>MUT 2116</td>
<td>Music Theory III</td>
<td>3 cr.</td>
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<tr>
<td>MUT 2246L</td>
<td>Sight Singing and Ear Training III</td>
<td>1 cr.</td>
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<td>MV_</td>
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<td>2 cr.</td>
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<tr>
<td></td>
<td>Humanities General Education</td>
<td>3 cr.</td>
</tr>
<tr>
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<td>Mathematics General Education</td>
<td>3 cr.</td>
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**YEAR II – Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>†IDS 2891</td>
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<td>MUN XXXX</td>
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<td>MUS 1010</td>
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<td>0 cr.</td>
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<td>MUT 2117</td>
<td>Music Theory IV</td>
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<td>MUT 2247L</td>
<td>Sight Singing and Ear Training IV</td>
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<td>MV_</td>
<td>Applied Music</td>
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<tr>
<td></td>
<td>Behavioral Science/History/Economics General Education CORE</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Physical Science General Education</td>
<td>3-4 cr.</td>
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**AA • Pharmacy Transfer Track**

**AA.PHAR (66 credit hours)**

This transfer track is for students who want to pursue a degree in pharmacy.
Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
†ENC 1101 English Composition I .............................................................................................................. 3 cr.
†MAC 1105 College Algebra ......................................................................................................................... 3 cr.
SLS 1106 First Year Experience Orientation ............................................................................................. 3 cr.
†SPC 1608 Public Speaking ......................................................................................................................... 3 cr.
†Humanities General Education CORE .................................................................................................... 3 cr.

YEAR I – Second Semester
AMH 2020 Modern American History or POS 2041, American Government ........................................ 3 cr.
†ENC 1102 English Composition II ........................................................................................................... 3 cr.
MAC 1147 Pre-Calculus Algebra and Trigonometry .................................................................................... 5 cr.
†Behavioral Science General Education CORE ......................................................................................... 3 cr.

YEAR I – Third Semester
*†BSC 2010 Biological Science I .................................................................................................................. 3 cr.
*†BSC 2010L Biological Science I Laboratory ............................................................................................. 1 cr.
*CHM 2045 General Chemistry I ................................................................................................................ 3 cr.
*CHM 2045L General Chemistry I Laboratory ........................................................................................... 1 cr.

YEAR II – First Semester
*†BSC 2011 Biological Science II ................................................................................................................ 3 cr.
*†BSC 2011L Biological Science II Laboratory ............................................................................................ 1 cr.
†CGS 1000 Introduction to Computers and Technology ........................................................................... 3 cr.
*CHM 2046 General Chemistry II ............................................................................................................. 3 cr.
*CHM 2046L General Chemistry II Laboratory ........................................................................................ 1 cr.
†MAC 2311 Calculus and Analytic Geometry .............................................................................................. 5 cr.
Behavioral Science/History/Economics General Education CORE .................................................... 3 cr.

YEAR II – Second Semester
*BSC 2065 Human Anatomy and Physiology I .......................................................................................... 3 cr.
*BSC 2065L Human Anatomy and Physiology I Laboratory ....................................................................... 1 cr.
*CHM 2210 Organic Chemistry I ............................................................................................................. 4 cr.
*CHM 2210L Organic Chemistry I Laboratory .......................................................................................... 1 cr.
*PHY 2053 General Physics I .................................................................................................................... 3 cr.
*PHY 2053L General Physics I Laboratory ............................................................................................... 1 cr.

YEAR II – Third Semester
*BSC 2066 Human Anatomy and Physiology II ...................................................................................... 3 cr.
*BSC 2066L Human Anatomy and Physiology II Laboratory ..................................................................... 1 cr.
CHM 2211 Organic Chemistry II ............................................................................................................. 4 cr.
CHM 2211L Organic Chemistry II Laboratory .......................................................................................... 1 cr.
†IDS 2891 Connections ........................................................................................................................... 1 cr.
PHY 2054 General Physics II .................................................................................................................... 3 cr.
PHY 2054L General Physics II Laboratory ............................................................................................... 1 cr.
Humanities General Education.................................................................................................................. 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked with an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Philosophy Transfer Track

AA.PHI (60 credit hours)

This transfer track is for students who want to pursue a four-year degree in Philosophy.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be
able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
†ENC 1101 English Composition I ......................................................... 3 cr.
*†PHI 1010 Introduction to Philosophy ................................................. 3 cr.
SLS 1106 First Year Experience Orientation ..................................... 3 cr.
Mathematics General Education CORE ............................................. 3 cr.
Physical Science General Education .................................................. 3-4 cr.

YEAR I – Second Semester
†ENC 1102 English Composition II .................................................... 3 cr.
*†PHI 1600 Ethics ............................................................................... 3 cr.
Biological Science General Education CORE .................................... 3 cr.
Mathematics General Education ....................................................... 3 cr.

YEAR I – Third Semester
†HUM 2230 World Humanities: Early Modern to the Contemporary .... 3 cr.
*PHI 1100 Elementary Logic ............................................................. 3 cr.
†Behavioral Science General Education CORE .................................... 3 cr.
Behavioral Science/History/Economics CORE ................................. 3 cr.

YEAR II – First Semester
AMH 2020 Modern American History or POS 2041, American Government .... 3 cr.
†CGS 1000 Introduction to Computers and Technology ....................... 3 cr.
†SPC 1608 Public Speaking ............................................................... 3 cr.
**Elective ..................................................................................... 6 cr.

YEAR II – Second Semester
†IDS 2891 Connections ..................................................................... 1 cr.
**Electives ................................................................................. 12 cr.

**Select 18 credit hours from the following:
†ARH 1000 Understanding Visual Art .................................................. 3 cr.
DAN 2100 Introduction to Dance ....................................................... 3 cr.
†HUM 2210 World Humanities: Prehistory to Early Modern Era ......... 3 cr.
HUM 2410 Asian Humanities ............................................................ 3 cr.
HUM 2420 African Humanities .......................................................... 3 cr.
HUM 2461 Latin-American Humanities ............................................. 3 cr.
†LIT 2000 Introduction to Literature .................................................. 3 cr.
†MUL 1010 Introduction to Music ....................................................... 3 cr.
REL 2300 Introduction to Religion ..................................................... 3 cr.
THE 1000 Introduction to Theatre Arts ............................................... 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked by an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Political Science Transfer Track
AA.POS (60 credit hours)

This transfer track is for students who want to pursue a four-year college/university degree in such fields as history, pre-law, political science, or international studies programs. The program is broadly designed to allow students to cater the major to their own interests; however, it is recommended that students meet with a full-time political science faculty member to discuss their program interests in their first semester at HCC.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
†AMH 2010 Early American History .................................................... 3 cr.
**AA • Psychology Transfer Track**

**AA.PSY (60 credit hours)**

This transfer track is for students who want to pursue a four-year degree in Psychology.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

**YEAR I – First Semester**

- **AMH 2020** Modern American History or POS 2041, American Government ........................................... 3 cr.
- **CLP 1000** Psychology of Personal Growth.................................................................................................. 3 cr.
- **ENC 1101** English Composition I........................................................................................................... 3 cr.
- **HUM 2230** World Humanities: Early Modern to Contemporary ............................................................ 3 cr.
- **HUM 2410** Asian Humanities................................................................................................................ 3 cr.
- **HUM 2420** African Humanities.............................................................................................................. 3 cr.
- **HUM 2461** Latin-American Humanities ............................................................................................... 3 cr.
- **IDS 2891** Connections........................................................................................................................ 1 cr.
- **LAH 2020** Survey of Latin American History.......................................................................................... 3 cr.
- **LAT 2300** Introduction to Religion........................................................................................................ 3 cr.
- **SPC 1608** Public Speaking..................................................................................................................... 3 cr.
- **SYG 2000** Introduction to Sociology......................................................................................................... 3 cr.
- **SYG 2040** American Government........................................................................................................... 3 cr.
- **TRE 2300** Interpersonal Communication................................................................................................ 3 cr.

**YEAR II – Second Semester**

- **AMH 2090** History of Women in the United States.................................................................................. 3 cr.
- **ECON 2013** Principles of Macroeconomics ............................................................................................. 3 cr.
- **HUM 2210** World Humanities: Pre-History to Early Modern ................................................................... 3 cr.
- **HUM 2230** World Humanities: Early Modern to Contemporary ............................................................ 3 cr.
- **HUM 2410** Asian Humanities................................................................................................................ 3 cr.
- **HUM 2420** African Humanities.............................................................................................................. 3 cr.
- **HUM 2461** Latin-American Humanities ............................................................................................... 3 cr.
- **PHI 1600** Ethics........................................................................................................................................ 3 cr.
- **PHI 1010** Introduction to Philosophy...................................................................................................... 3 cr.
- **SYG 2000** Introduction to Sociology......................................................................................................... 3 cr.
- **TRE 2300** Interpersonal Communication................................................................................................ 3 cr.

**Select 9 credit hours from the following:**

- **AMH 2090** History of Women in the United States.................................................................................. 3 cr.
- **ECON 2013** Principles of Macroeconomics ............................................................................................. 3 cr.
- **HUM 2210** World Humanities: Pre-History to Early Modern ................................................................... 3 cr.
- **HUM 2230** World Humanities: Early Modern to Contemporary ............................................................ 3 cr.
- **HUM 2410** Asian Humanities................................................................................................................ 3 cr.
- **HUM 2420** African Humanities.............................................................................................................. 3 cr.
- **HUM 2461** Latin-American Humanities ............................................................................................... 3 cr.
- **PHI 1600** Ethics........................................................................................................................................ 3 cr.
- **PHI 1010** Introduction to Philosophy...................................................................................................... 3 cr.
- **TRE 2300** Interpersonal Communication................................................................................................ 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked by an asterisk (*).

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
YEAR I – Second Semester
†ANT 2000 Introduction to Anthropology ................................................................. 3 cr.
†ENC 1102 English Composition II ................................................................. 3 cr.
*†PSY 2012 General Psychology ................................................................. 3 cr.
†STA 2023 Elementary Statistics ................................................................. 3 cr.
Behavioral Science/History/Economics General Education ........................................ 3 cr.

YEAR I – Third Semester
†DEP 1004 Development Psychology of the Life Span ................................................................. 3 cr.
EDP 2002 Educational Psychology ................................................................. 3 cr.
†SPC 1608 Public Speaking ................................................................. 3 cr.

YEAR II – First Semester
†CGS 1000 Introduction to Computers and Technology ................................................................. 3 cr.
†DEP 2102 Child Development ................................................................. 3 cr.
†SYG 2000 Introduction to Sociology ................................................................. 3 cr.
†Humanities General Education CORE ................................................................. 3 cr.
Physical Science General Education ................................................................. 3 cr.

YEAR II – Second Semester
*†CLP 2140 Abnormal Psychology ................................................................. 3 cr.
†IDS 2891 Connections ................................................................. 3 cr.
*Biological Science General Education (BSC prefix) ................................................................. 3-4 cr.
Humanities General Education ................................................................. 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked by an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AA • Public Health Transfer Track
AA.PUBLIC.HLTH (60 credit hours)

This transfer track is for students who want to pursue a four-year degree in Public Health.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester
†ENC 1101 English Composition I ................................................................. 3 cr.
†HSC 2100 Health Education ................................................................. 3 cr.
PHC 2100 Introduction to Public Health ................................................................. 3 cr.
SLS 1106 First Year Experience Orientation ................................................................. 3 cr.
Mathematics General Education CORE ................................................................. 3 cr.

YEAR I – Second Semester
†ENC 1102 English Composition II ................................................................. 3 cr.
†HSC 1531 Medical Terminology ................................................................. 3 cr.
HSC 2130 Sex, Health and Decision Making ................................................................. 3 cr.
Biological Science General Education CORE ................................................................. 3-4 cr.
†Humanities General Education CORE ................................................................. 3 cr.

YEAR I – Third Semester
AMH 2020 Modern American History or POS 2041, American Government ................................................................. 3 cr.
†PSY 2012 General Psychology ................................................................. 3 cr.

YEAR II – First Semester
†CGS 1000 Introduction to Computers and Technology ................................................................. 3 cr.
HSC 2017 Careers in Public Health ................................................................. 3 cr.
PHC 2321 Environmental Concepts in Public Health ................................................................. 3 cr.
*†STA 2023 Elementary Statistics ................................................................. 3 cr.

YEAR II – Second Semester
AA • Religious Studies Transfer Track

AA.REL (60 credit hours)

This transfer track is for students who want to pursue a four-year degree in religion or religious studies. The broad nature of this transfer track allows it to be appropriate for future studies in liberal arts programs, philosophy and other humanities-directed disciplines.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

YEAR I – First Semester

†ENC 1101 English Composition I ......................................................................................... 3 cr.
HUM 1020 Introduction to Humanities .................................................................................. 3 cr.
*REL 2300 Introduction to Religion ...................................................................................... 3 cr.
SLS 1106 First Year Experience Orientation ...................................................................... 3 cr.
Mathematics General Education CORE ............................................................................. 3 cr.

YEAR I – Second Semester

†ANT 2000 Introduction to Anthropology OR †SYG 2000, Introduction to Sociology ........ 3 cr.
†ENC 1102 English Composition II ..................................................................................... 3 cr.
†Humanities General Education CORE .............................................................................. 3 cr.
Mathematics General Education ....................................................................................... 3 cr.

YEAR I – Third Semester

EUH 2000 The Western World: Origins to Early Modern Europe ........................................ 3 cr.
†SPC 1608 Public Speaking .................................................................................................. 3 cr.
Biological Science General Education .............................................................................. 3-4 cr.

YEAR II – First Semester

AMH 2020 Modern American History or POS 2041, American Government .................. 3 cr.
*REL 1210 Old Testament Survey ...................................................................................... 3 cr.
**Electives ......................................................................................................................... 6 cr.
Physical Science General Education .............................................................................. 3-4 cr.

YEAR II – Second Semester

†CGS 1000 Introduction to Computers and Technology ...................................................... 3 cr.
†IDS 2891 Connections ..................................................................................................... 1 cr.
†PHI 1600 Ethics ................................................................................................................ 3 cr.
*REL 1240 New Testament Survey ................................................................................... 3 cr.
**Humanities Electives ..................................................................................................... 3 cr.

**Select 9 credit hours from the following humanities courses if not previously taken:

†ARH 1000 Understanding Visual Art .............................................................................. 3 cr.
DAN 2100 Introduction to Dance ....................................................................................... 3 cr.
†HUM 2210 World Humanities: Prehistory to Early Modern Era .................................. 3 cr.
†HUM 2230 World Humanities: Early Modern to Contemporary ................................... 3 cr.
HUM 2410 Asian Humanities ........................................................................................... 3 cr.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 2420</td>
<td>African Humanities</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HUM 2461</td>
<td>Latin-American Humanities</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†LIT 2000</td>
<td>Introduction to Literature</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MUL 1010</td>
<td>Introduction to Music</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†PHI 1010</td>
<td>Introduction to Philosophy</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PHI 1100</td>
<td>Elementary Logic</td>
<td>3 cr.</td>
</tr>
<tr>
<td>THE 1000</td>
<td>Introduction to Theatre Arts</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

Common Course Prerequisites recommended by the State for successful transfer to the university are marked by an asterisk (*).

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

**AA • Sociology Transfer Track**

**AA.SYG (60 credit hours)**

This transfer track is for students who want to pursue a four-year degree in sociology.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SLS 1106</td>
<td>First Year Experience Orientation</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Biological Science General Education with lab</td>
<td>4 cr.</td>
</tr>
<tr>
<td>†</td>
<td>Humanities General Education CORE</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR I – Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ENC 1102</td>
<td>English Composition II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MGF 1106</td>
<td>Topics in Mathematics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SPC 1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*†SYG 2000</td>
<td>Introduction to Sociology</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR I – Third Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 2020</td>
<td>Modern American History or POS 2041, American Government</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ANT 2000</td>
<td>Introduction to Anthropology or †PSY 2010, General Psychology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†STA 2025</td>
<td>Elementary Statistics</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CHM 1020C</td>
<td>Chemistry and Society</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†HUM 2210</td>
<td>World Humanities: Prehistory to Early Modern</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†PHI 1600</td>
<td>Ethics or †REL 2300, Introduction to Religion</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*†SYG 2010</td>
<td>Social Problems</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†IDS 2891</td>
<td>Connections</td>
<td>3 cr.</td>
</tr>
<tr>
<td>POS 1001</td>
<td>Introduction to Political Science or EUH 2000, The Western World: Origins to Early Modern</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*†SYG 2012</td>
<td>Introduction to Globalization or †SYG 2430, Marriage and Family</td>
<td>3 cr.</td>
</tr>
<tr>
<td>**</td>
<td>Elective</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**Select 3 credit hours from the following elective course options:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFA 1001</td>
<td>Introduction to Black Culture</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ANT 2000</td>
<td>Introduction to Anthropology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 1025C</td>
<td>Nutrition and Drugs</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CCJ 1010</td>
<td>Introduction to Criminology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†HUM 2230</td>
<td>World Humanities: Early Modern to the Contemporary</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HUM 2410</td>
<td>Asian Humanities</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HUM 2420</td>
<td>African Humanities</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HUM 2461</td>
<td>Latin-American Humanities</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MAN 2604</td>
<td>Intercultural Relations in Business</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>
†MUL 1010 Introduction to Music ................................................................. 3 cr.
†PHI 1010 Introduction to Philosophy ................................................................. 3 cr.
†PHI 1600 Ethics .............................................................................................. 3 cr.
†PSY 2012 General Psychology ........................................................................... 3 cr.
†REL 2300 Introduction to Religion ..................................................................... 3 cr.
SOP 1740 Feminine Psychology ......................................................................... 3 cr.
†SYG 2430 Marriage and Family ........................................................................ 3 cr.
SYG 2930 Selected Topics in Sociology ............................................................. 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked by an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

**AA • Statistics Transfer Track**

**AA.STA (60 credit hours)**

This transfer track is for students who want to pursue a four-year degree in Statistics.

Please note only 60 of these credits are needed for AA degree completion. For each transfer track, IDS 2891 is a degree requirement, and for most of the transfer tracks, SLS 1106 is required for first-time-in-college students. CGS 1000 may be able to be tested out for no credit. Consult an academic advisor with questions related to transfer tracks and course planning.

**YEAR I – First Semester**
†ENC 1101 English Composition I ............................................................................ 3 cr.
*†MAC 1140 Pre-Calculus Algebra ........................................................................... 3 cr.
†SPC 1608 Public Speaking ..................................................................................... 3 cr.
SLS 1106 First Year Experience Orientation ......................................................... 3 cr.
*†STA 2023 Elementary Statistics .......................................................................... 3 cr.

**YEAR I – Second Semester**
†BSC 2010 Biological Science I and †BSC 2010L, Biological Science I Laboratory or †BSC 2085, Human Anatomy and Physiology I and †BSC 2085L, Human Anatomy and Physiology I Laboratory ......................................................................................... 4 cr.
†ENC 1102 English Composition II ......................................................................... 3 cr.
†MAC 1114 Trigonometry ...................................................................................... 3 cr.
†Humanities General Education CORE ..................................................................... 3 cr.

**YEAR I – Third Semester**
†CGS 1000 Introduction to Computers and Technology ........................................... 3 cr.
CHM 2045 General Chemistry I and CHM 2045L, General Chemistry I Laboratory or †PHY 2053, General Physics I and PHY 2053L, General Physics I Laboratory ......................................................... 4 cr.
*†MAC 2311 Calculus and Analytical Geometry I .................................................... 5 cr.
†Behavioral Science General Education CORE ....................................................... 3 cr.

**YEAR II – First Semester**
AMH 2020 Modern American History or POS 2041, American Government ........... 3 cr.
*†COP 1000 Programming Logic ............................................................................ 3 cr.
*†MAC 2312 Calculus and Analytic Geometry II .................................................... 5 cr.
Behavioral Science/History/Economics General Education CORE .......................... 3 cr.

**YEAR II – Second Semester**
†IDS 2891 Connections ......................................................................................... 1 cr.
*†MAC 2313 Calculus and Analytic Geometry III ................................................... 5 cr.
MAP 2302 Differential Equations .......................................................................... 3 cr.
Humanities General Education ................................................................................ 3 cr.

Common Course Prerequisites recommended by the State for successful transfer to the university are marked by an asterisk (*).
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
Associate in Science Degree

Hillsborough Community College will award an associate in science (AS) degree if students complete a minimum of 60 credit hours in a curriculum designed to prepare students for employment. If students are interested in a specialized college program to prepare them for a job in business or industry, one of these degrees may be the right choice. If students decide to get a four-year degree, they may be able to transfer some or all of the courses taken here to a senior institution. Public universities in Florida now accept seven AS degrees to transfer to programs in their institutions. The AS degrees in this articulation agreement are Hospitality and Tourism Management, Computer Engineering, Electronics Engineering Technology, Nursing, Business Administration, Radiography and Criminal Justice Technology.

Other AS degrees may be transferred to a variety of four-year colleges and universities under individual agreements. For more information on current articulation agreements, consult an academic advisor or visit our website at https://www.hccfl.edu/academics/articulation-agreements.

General Education Requirements for the AS Degree

NOTE: Students must complete a minimum of 15 credit hours.

NOTE: Students within an AS degree program must earn a grade of “C” or better in each applicable course in order to fulfill the college's general education requirements. A grade of “D” in a general education course can only be applied as elective credit.

Communications/Humanities: 6 credits required
(3 credit hours must be in Humanities)

Mathematics/Natural Science: 3 credits required

Social/Behavioral Sciences: 3 credits required

Program Specified General Education Requirements: 3 credits required

General education courses are listed in the General Education section of this catalog. Consult an advisor or counselor for specific program requirements or consult the appropriate advising guide on the HCC website (https://www.hccfl.edu/support-services/academic-advising/hawkgps).

Terms/Definitions:

College Credit Certificate (CCC)

College credit programs are offered for those who seek to learn new skills or to refresh or upgrade their present skills.

Advanced Technical Certificate (ATC)

This short-term certificate provides students with advanced training above the associate in science degree.

Applied Technology Diploma (ATD)

The ATD is a college-credit certificate, job preparatory program.

Postsecondary Adult Vocational (PSAV) Certificate

The PSAV Certificate is a non-college-credit job preparatory program.

Occupational Programs Associate in Science Degrees

Aquaculture
Architectural Design/Construction Technology
Biotechnology Laboratory Technology
Business Administration
Business Intelligence Specialist
Cardiovascular Technology - Non-Invasive
Cardiovascular Technology - Invasive
Clinical Research Professional
Computer Engineering Technology
Computer Information Administrator
Computer Programming
Counseling and Human Services
Criminology and Criminal Justice Studies
Culinary Management
Cybersecurity
Database Technology
Dental Hygiene
Diagnostic Medical Sonography Technology
Dietetic Technician
Digital Media/Multimedia Technology
Digital Television and Media Production
Early Childhood Education
Electronics Engineering Technology
Emergency Medical Services
Engineering Technology
Environmental Science Technology
Fire Science Technology
Health Navigator
Hospitality and Tourism Management
Industrial Management Technology
Internet Services Technology
IT Project Management
Invasive Cardiovascular Technology
Medical Laboratory Science
Network Systems Technology
Nuclear Medicine Technology
Nursing
Office Administration
Opticianry
Paralegal Studies (Legal Assisting)
Radiation Therapy
Radiography
Respiratory Care
Restaurant Management
Supply Chain Management
Surgical Technology
Veterinary Technology

**College Credit Certificates**
Accounting Technology Management
Accounting Technology Operations
Accounting Technology Specialist
Advanced Network Infrastructure
Aquaculture Technology
AutoCAD Foundations
Automation
Biotechnology Specialist
Broadcast Production
Business Development and Entrepreneurship
Business Intelligence Professional
Business Management
Business Operations
Business Specialist
Chef’s Apprentice
Clinical Research Coordinator
CNC Machinist
Computer Programming
Computer Programming Specialist
Crime Scene
Criminal Justice Technology Specialist
Culinary Arts
Database Administrator
Digital Forensics
Digital Media/Multimedia Instructional Technology
Digital Media/Multimedia Production
Digital Media/Multimedia Video Production
Digital Media/Multimedia Web Production
Digital Video Production
Drafting
Early Childhood Education: Administrator
Early Childhood Education: Preschool
Electronics Technician
Emergency Medical Technician
Engineering Technology Support Specialist
Entrepreneurship and Innovation
Event Planning Management
Fire Officer Supervisor
Food and Beverage Management
Food and Beverage Operations

Game Authoring
Graphic Design Production
Health Navigator Specialist
Healthcare Support Specialist
Help Desk Support Technician
Homeland Security Specialist
Human Resource Management
Internet Services Technology - Web Development Specialist - Designer
Internet Services Technology - Web Development Specialist - Developer
Laser and Photonics Technician
Lean Manufacturing
Logistics and Transportation Specialist
Mechatronics
Medical Information Coder/Biller - Medical Coder
Medical Office Administration
Medical Office Management
Microcomputer Repairer/Installer
Motion Picture Production Management
Network Enterprise Administration
Network Infrastructure
Network Security/Cybersecurity
Network Server Administration
Network Support Technician
Office Management
Office Specialist
Office Support
Ophthalmic Lab Technician
Paramedic
Pneumatics, Hydraulics and Motors
Radiation Therapy Specialist
Robotics and Simulation
Sustainable Design
Television Production
Video Editing and Post Production
Water Quality Technician

**Advanced Technical Certificates**
Computed Tomography Advanced Imaging
Magnetic Resonance Imaging (MRI)
Medical Laboratory Science
Paralegal/Legal Assisting
Visual Assessment

**Postsecondary Adult Vocational Certificates**
Automotive Collision Technology Technician
Automotive Service Technology
Auxiliary Law Enforcement Officer
Bail Bonding
Bus Transit Technician
Correctional Officer
Diesel Systems Technician
Dental Assisting
Fire Fighter/EMT
Heavy Equipment Service Technician
Law Enforcement
Private Investigator Intern
Welding Technology
Health Sciences

General Information

HCC offers associate degrees in the following health sciences areas: Cardiovascular Technology, Clinical Research Professional, Counseling and Human Services; Dental Hygiene; Diagnostic Medical Sonography Technology; Emergency Medical Services; Health Navigator, Medical Laboratory Science, Nuclear Medicine Technology; Nursing; Opticianry; Radiation Therapy; Radiography; Respiratory Care and Surgical Technology. In addition to the degree programs, the College offers college credit certificate programs in Clinical Research Coordinator, Emergency Medical Technician, Health Navigator Specialist, Ophthalmic Laboratory Technician, Paramedic, Radiation Therapy Specialist, and Visual Assessment; advanced technical certificates in Computed Tomography Advanced Imaging, Magnetic Resonance Imaging (MRI), and Medical Laboratory Science; and an advanced technical diploma in Dental Assisting. The college credit certificate programs are one-year programs for individuals who are pre-certified or licensed in a health science profession. Most health sciences and nursing programs are limited access programs with competitive application procedures because of the limited number of clinical placements the College has available for students to gain practical experience.

For more information about health science program admissions, contact the student services office at the Dale Mabry Campus at (813) 253-7364 or at https://www.hccfl.edu/academics/subjects/health-and-medical/health-sciences-admissions

Hillsborough Community College and its health science programs reserve the right to make changes in the regulations, offerings; prerequisites, requirements and any provision announced in this catalog at any time, as circumstances require.

Students who hold prior degrees and are taking preparatory coursework necessary for enrollment in an eligible program are eligible for loans for one consecutive 12-month period.

AS • Cardiovascular Technology (Non-Invasive)

AS.CARD.TECH (77 Credit Hours)

This program is designed to prepare students for employment as cardiovascular technologists.

Prerequisite Courses Required for Admission

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†BSC 2085</td>
<td>Human Anatomy and Physiology I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2085L</td>
<td>Human Anatomy and Physiology I Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†BSC 2086</td>
<td>Human Anatomy and Physiology II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2086L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105</td>
<td>College Algebra or †STA 2023, Elementary Statistics, or any higher math course</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PHY 1025</td>
<td>Fundamentals of Physics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PHY 1025L</td>
<td>Fundamental of Physics Laboratory</td>
<td>1 cr.</td>
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YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CVT 1000</td>
<td>Introduction to Cardiovascular Technology and Patient Care</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CVT 1191L</td>
<td>Introduction to Cardiovascular Practicum I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CVT 1261</td>
<td>Cardiovascular Anatomy and Physiology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CVT 2500</td>
<td>Cardiovascular ECG</td>
<td>3 cr.</td>
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YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CVT 2320</td>
<td>Vascular Ultrasound I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CVT 2320L</td>
<td>Introduction to Cardiovascular Practicum II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CVT 2620</td>
<td>Cardiac Ultrasound I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SON 1210</td>
<td>Introduction to Sonography Physics and Instrumentation</td>
<td>3 cr.</td>
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</tbody>
</table>

YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVT 2321</td>
<td>Vascular Ultrasound II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CVT 2840L</td>
<td>Cardiovascular Practicum I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*‡PSY 2012</td>
<td>General Psychology</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Humanities General Education</td>
<td>3 cr.</td>
</tr>
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</table>

YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CVT 2621</td>
<td>Cardiac Ultrasound II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CVT 2621L</td>
<td>Cardiac Ultrasound II Laboratory</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CVT 2841L</td>
<td>Cardiovascular Practicum II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CVT 2930</td>
<td>Seminar in Vascular Ultrasound</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>
YEAR II – Second Semester
CVT 2842L Cardiovascular Practicum III ................................................................................................... 4 cr.
CVT 2920 Seminar in Cardiac Ultrasound ............................................................................................... 3 cr.
SON 2211 Sonographic Physics and Instrumentation ............................................................................ 3 cr.
SON 2211L Sonographic Physics and Instrumentation Laboratory ........................................................ 1 cr.
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Invasive Cardiovascular Technology
AS.CARD.TECH.INV (77 Credit Hours)
This program is designed for high school graduates and/or individuals who seek an entry level position into the health care field.

Prerequisite Courses Required for Admission
†BSC 2085 Human Anatomy and Physiology I ........................................................................................ 3 cr.
†BSC 2085L Human Anatomy and Physiology I Laboratory ................................................................... 1 cr.
†BSC 2086 Human Anatomy and Physiology II ....................................................................................... 3 cr.
†BSC 2086L Human Anatomy and Physiology II Laboratory .................................................................. 1 cr.
†ENC 1101 English Composition I .............................................................................................................. 3 cr.
†MAC 1105 College Algebra ......................................................................................................................... 3 cr.

YEAR I – First Semester
CVT 1001 Introduction to Invasive Cardiovascular Technology .......................................................... 3 cr.
CHM 1025 Introductory Chemistry ............................................................................................................ 3 cr.
CHM 1025L Introductory Chemistry Laboratory ....................................................................................... 1 cr.
PHY 1020 Conceptual Physics ................................................................................................................... 3 cr.

YEAR I – Second Semester
CVT 1800L Invasive Cardiovascular Pre-Clinical I ................................................................................... 3 cr.
CVT 1220 Cardiovascular Pharmacology ................................................................................................ 2 cr.
CVT 1260 Cardiopulmonary Anatomy and Physiology ........................................................................ 3 cr.
MCB 2000 Microbiology and Human Disease ......................................................................................... 3 cr.
MCB 2000L Microbiology and Human Disease Laboratory ..................................................................... 1 cr.

YEAR I – Third Semester
CVT 1801L Invasive Cardiovascular Pre-Clinical II .................................................................................. 3 cr.

YEAR II – First Semester
CVT 2420C Invasive Cardiology I ............................................................................................................... 6 cr.
CVT 2805C Cardiovascular Interventional Pre-Practicum ....................................................................... 3 cr.
CVT 2660C Non-Invasive Cardiology ........................................................................................................ 2 cr.
CVT 2110L Invasive Cardiovascular Clinical II ........................................................................................ 3 cr.

YEAR II – Second Semester
CVT 2845L Invasive Cardiovascular Clinical III ....................................................................................... 3 cr.
CVT 2421C Invasive Cardiovascular II ...................................................................................................... 6 cr.
CVT 2211 Critical Care Applications ........................................................................................................ 2 cr.

YEAR II – Third Semester
CVT 2846L Invasive Cardiovascular Clinical IV ....................................................................................... 4 cr.
CVT 2921 Cardiovascular Technologist as a Profession ........................................................................... 2 cr.

AS • Clinical Research Professional
AS.CLIN.RES (60 Credit Hours)
The clinical research professional’s primary role is to monitor clinical trials. The clinical research programs at HCC will build fundamental skills in adherence to IRB guidelines; safety for clinical research participants; coordination of clinical treatment and study visits; screening, recruitment and enrollment of study participants and clinical trial compliance with Federal and State regulatory laws. Those
with clinical research professional training can expect to work in biological, pharmaceutical or social and behavioral clinical research settings.

Program Required Courses

YEAR I – First Semester
†ENC 1101 English Composition I ................................................................. 3 cr.
†HSC 1531 Medical Terminology ................................................................. 3 cr.
HSC 2732 Fundamentals of Clinical Research ........................................... 3 cr.
†STA 2023 Elementary Statistics ................................................................. 3 cr.

YEAR I – Second Semester
†HIM 1442 Pharmacology ........................................................................... 2 cr.
HIM 1453 Anatomy and Physiology for Medical Coding ......................... 4 cr.
HSC 2733 Fundamentals of Clinical Research II ........................................... 3 cr.
†PHI 1600 Ethics .......................................................................................... 3 cr.

YEAR I – Third Semester
†HSC 2100 Health Education ....................................................................... 3 cr.
†SYG 2000 Introduction to Sociology ........................................................... 3 cr.

YEAR II – First Semester
HSC 2739 Business of Clinical Research ................................................... 3 cr.
HSC 2734 Regulatory Affairs Clinical Research ......................................... 3 cr.
HSC 2660 Health Communications ............................................................. 3 cr.
†PSY 2012 General Psychology ................................................................. 3 cr.

YEAR II – Second Semester
HSC 2738 Quality Assurance Clinical Research ........................................ 3 cr.
*Elective ................................................................................................... 3 cr.

YEAR II – Third Semester
HSC 2819 Clinical Research Practicum ....................................................... 3 cr.
*Elective ................................................................................................... 3 cr.

*Select 6 credit hours from the following:
HSA 2010 Issues and Trends in Public Health .............................................. 3 cr.
HSC 2130 Sex, Health and Decision Making ............................................. 3 cr.
HSC 2721 Accessing and Analyzing Health Information............................. 3 cr.
PHC 2040 Foundations in Epidemiology .................................................... 3 cr.
PHC 2321 Environmental Concepts in Public Health ................................. 3 cr.

CCC • Clinical Research Coordinator

CCC.CLIN.RES (30 Credit Hours)

Program Required Courses

YEAR I – First Semester
†HIM 1442 Pharmacology ........................................................................... 2 cr.
HIM 1453 Anatomy & Physiology for Medical Coding or †BSC 2085, Human Anatomy and Physiology I and †BSC 2085L, Human Anatomy and Physiology I Laboratory ............ 4 cr.
HSC 2732 Fundamentals of Clinical Research I ........................................... 3 cr.
HSC 2739 Business of Clinical Research ................................................... 3 cr.

YEAR I – Second Semester
†HSC 2100 Health Education ....................................................................... 3 cr.
HSC 2733 Fundamentals of Clinical Research II ........................................... 3 cr.
HSC 2738 Quality Assurance in Clinical Research ....................................... 3 cr.
*Elective ................................................................................................... 3 cr.

YEAR I – Third Semester
HSC 2819 Clinical Research Practicum ....................................................... 3 cr.

NOTE 1: The Counseling and Human Services program is an open enrollment program. Courses are not required to be taken in any particular order.

NOTE 2: The program has transfer agreements for graduates who want to pursue their bachelor’s degree at the following institutions: University of South Florida, Saint Leo University, Springfield College, and Nova Southeastern University.

Program Required Courses

YEAR I – First Semester
†ENC 1101 English Composition I ....................................................................................... 3 cr.
HUS 1001 Introduction to Human Services ........................................................................... 3 cr.
HUS 1111 Interpersonal Skills in Human Services ................................................................. 3 cr.
†SYG 2000 Introduction to Sociology ...................................................................................... 3 cr.

YEAR I – Second Semester
HUS 1024 Abnormal Behavior: Etiology and Treatment ....................................................... 3 cr.
HUS 1200 Introduction to Group Process ............................................................................. 3 cr.
HUS 1406 Etiology and Treatment of Substance Use Disorders ........................................... 3 cr.
†PSY 2012 General Psychology ............................................................................................ 3 cr.

YEAR I – Third Semester
HUS 1540 Principles for Understanding and Working with Families ................................... 3 cr.
HUS 1820 Human Services Practicum I ............................................................................... 2 cr.

HUS 1541 Humanities General Education ............................................................................. 3 cr.
BSC 1092L Human Biology Laboratory .............................................................................. 1 cr.

YEAR II – First Semester
†BSC 1092 Human Biology and BSC 1092L, Human Biology Laboratory or
AS • Dental Hygiene

AS.DENT (88 Credit Hours)

The Dental Hygiene Program leads to an associate in science degree and provides students with the skills and knowledge needed to complete national and state or regional board examinations to become licensed dental hygienists. A dental hygienist is a vital member of the dental team who performs dental procedures that include administration of local anesthesia, scaling, polishing and root planing procedures, exposing and processing radiographs, fluoride and dental sealant applications, and oral hygiene education. The graduate dental hygienist also becomes certified to perform expanded duties that are permitted by Florida Statute Title XXXII for dental auxiliaries. The dental hygiene curriculum includes five consecutive semesters of courses and requires a time commitment of 35-40 hours weekly. The program is offered on the Dale Mabry Campus only.

The Dental Hygiene program is accredited by the Commission on Dental Accreditation, 211 E. Chicago Avenue, Chicago, IL 60611, (312) 440-2500, https://www.ada.org/100.aspx.

NOTE: Graduates must pass both the National Dental Hygiene Board examination and the Florida Dental Hygiene Board examination to become a registered dental hygienist.

Prerequisite Courses Required for Admission

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†BSC 2085 Human Anatomy and Physiology I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2085L Human Anatomy and Physiology I Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†BSC 2086 Human Anatomy and Physiology II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2086L Human Anatomy and Physiology II Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>CHM 1032 Chemistry for Health Sciences</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CHM 1032L Chemistry for Health Sciences Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†ENC 1101 English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105 College Algebra or †MGF 1106 Topics in Mathematics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MCB 2000 Microbiology and Human Disease</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MCB 2000L Microbiology and Human Disease Laboratory</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DEH 1002 Dental Hygiene Instrumentation</td>
<td>1 cr.</td>
</tr>
<tr>
<td>DEH 1002L Dental Hygiene Instrumentation Laboratory</td>
<td>2 cr.</td>
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<tr>
<td>DEH 1720 Preventive Dentistry</td>
<td>1 cr.</td>
</tr>
<tr>
<td>DES 1020 Oral, Head, and Neck Anatomy</td>
<td>2 cr.</td>
</tr>
<tr>
<td>DES 1200 Dental Radiology</td>
<td>2 cr.</td>
</tr>
<tr>
<td>DES 1200L Dental Radiology Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>DES 1800 Introduction to Clinical Procedures</td>
<td>2 cr.</td>
</tr>
<tr>
<td>DES 1800L Introduction to Clinical Procedures Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>**HUN 2201 Fundamentals of Human Nutrition</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DEH 1130 Oral Embryology and Histology</td>
<td>1 cr.</td>
</tr>
<tr>
<td>DEH 1800C Clinical Dental Hygiene I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>DEH 2400 General and Oral Pathology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>DEH 2602 Periodontology</td>
<td>2 cr.</td>
</tr>
<tr>
<td>DES 1600 Dental Office Emergencies</td>
<td>2 cr.</td>
</tr>
</tbody>
</table>
AS • Diagnostic Medical Sonography Technology

AS.SON (77 Credit Hours)

Sonography is a medical specialty, which uses high-frequency sound waves to create images of the human body. These images are then analyzed, aiding in physician diagnosis. The sonographer is a skilled health care provider who provides imaging services under the supervision of a physician who is responsible for the use and interpretation of ultrasound procedures.

Upon completion of this program in abdomen, obstetrics and gynecology, and ultrasound physics and instrumentation, the graduate will be eligible to take the national registry examinations to become a certified sonographer. The examination is administered by the American Registry of Diagnostic Medical Sonographers.

The Diagnostic Medical Sonography program is accredited by the Commission on Accreditation for Allied Health Education Programs (CAAHEP), 1316 Park St. Clearwater, FL 33756. www.caahep.org upon the recommendation of the Joint review Committee for Diagnostic Medical Sonography (JRCDMS).

Prerequisite Courses Required for Admission

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>†BSC 2085</td>
<td>Anatomy and Physiology I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2085L</td>
<td>Anatomy and Physiology I Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†BSC 2086</td>
<td>Human Anatomy and Physiology II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2086L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105</td>
<td>College Algebra or higher math course (with the exception of †MGF 1106 and †MGF 1107) or †STA 2023, Elementary Statistics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PHY 1025</td>
<td>Fundamentals of Physics</td>
<td>3 cr.</td>
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<tr>
<td>PHY 1025L</td>
<td>Fundamentals of Physics Laboratory</td>
<td>1 cr.</td>
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Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SON 1000</td>
<td>Basic Sonography</td>
<td>3 cr.</td>
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<tr>
<td>SON 1311</td>
<td>Introduction to Cross Sectional Anatomy</td>
<td>1 cr.</td>
</tr>
<tr>
<td>SON 1804C</td>
<td>Introduction to Practicum I</td>
<td>2 cr.</td>
</tr>
</tbody>
</table>
Humanities General Education

YEAR I – Second Semester

RTE 1782 Pathology of Medical and Surgical Diseases ................................................................. 3 cr.
SON 1053 Sonographic Imaging of Medical/Surgical Diseases ....................................................... 1 cr.
SON 1100 Sonographic Scanning Protocol I .................................................................................. 1 cr.
SON 1210 Introduction to Sonographic Physics and Instrumentation .......................................... 3 cr.
SON 1312 Introduction to Cross Sectional Anatomy II ................................................................. 1 cr.
SON 1840 Introduction to Practicum II .......................................................................................... 1 cr.

YEAR I – Third Semester

†PSY 2012 General Psychology .................................................................................................................. 3 cr.
SON 1101 Sonographic Scanning Protocol II ....................................................................................... 1 cr.
SON 1850 Introduction to Practicum III ............................................................................................. 1 cr.
SON 1171C Introduction to Vascular Technology ................................................................................. 2 cr.

YEAR II – First Semester

SON 1313 Introduction to Cross Sectional Anatomy III ................................................................. 1 cr.
SON 2111 Abdominal Sonography I ...................................................................................................... 3 cr.
SON 2121 Obstetrics and Gynecology Sonography I .......................................................................... 4 cr.
SON 2814 Sonographic Clinical Practicum I ....................................................................................... 3 cr.

YEAR II – Second Semester

SON 2112 Abdominal Sonography II ................................................................................................. 3 cr.
SON 2122 Obstetrics and Gynecology Sonography II ........................................................................ 3 cr.
SON 2211 Sonographic Physics and Instrumentation ......................................................................... 3 cr.
SON 2211L Sonographic Physics and Instrumentation Laboratory .................................................. 1 cr.
SON 2824 Sonographic Clinical Practicum II ....................................................................................... 3 cr.

YEAR II – Third Semester

SON 2061 Seminar in Sonography ......................................................................................................... 3 cr.
SON 2834 Sonographic Clinical Practicum III ..................................................................................... 3 cr.
SON 2175C Vascular Technology ........................................................................................................ 3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Emergency Medical Services

AS.EMST.TECH (73 Credit Hours)

If the student wants to become certified as an emergency medical technician or as a paramedic, the student will earn a college credit certificate.

All three levels are fully approved by the Florida Department of Health, and the student will be eligible to take the Florida or National Registry examination for EMT or paramedic upon completion of this program.

The Emergency Medical Services (EMS) program is fully credited by the Florida Department of Health, Bureau of Emergency Medical Services. Additionally, the Paramedic program is accredited by the Commission on Accreditation of Allied Health Educational Programs, www.caahep.org upon recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

This program provides paramedics with an opportunity to further their education by earning an associate in science degree.

To be enrolled into the paramedic program the student must be currently certified as EMT in the State of Florida.

Statewide curriculum guidelines allow students who complete an ATD (Advanced Technical Diploma) at a vocational technical center to be awarded 11 college credits upon enrolling at HCC. These credit hours will be applied toward an associate in science degree in Emergency Medical Services.

Program Required Courses

YEAR I – First Semester

†BSC 2085 Human Anatomy and Physiology I ..................................................................................... 3 cr.
†BSC 2085L Human Anatomy and Physiology I Laboratory .............................................................. 1 cr.
†ENC 1101 English Composition I ....................................................................................................... 3 cr.
Mathematics General Education ........................................................................................................ 3 cr.

YEAR I – Second Semester
†BSC 2086 Anatomy and Physiology II ................................................................................................................... 3 cr.
†BSC 2086L Anatomy and Physiology II Laboratory .......................................................................................... 1 cr.
†PSY 2012 General Psychology .......................................................................................................................... 3 cr.

Humanities General Education .......................................................................................................................... 3 cr.

Completion of EMT College Credit Certificate ......................................................................................... 11 cr.
Completion of Paramedic College Credit Certificate ....................................................................................... 42 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
CCC • Emergency Medical Technician

CCC.EMT (12 Credit Hours)

EMT training is a one-semester program designed to prepare students to provide basic life support measures, as a member of an ambulance crew, at the scene of an accident, during transport to a hospital or medical facility, and in the medical facility. Course work combines classroom lecture, practical skills laboratory and actual patient clinical experiences.

The lecture portion (seven credit hours) covers the National Emergency Medical Services Education Standards for the Emergency Medical Technician as well as skills required by the state.

The practical skills laboratory portion (two credit hours) includes application practice and performance testing in simulated patient care situations. The clinical portion (one credit hour) provides actual patient care during transport to a hospital and in the hospital setting. EMT is currently offered at the Dale Mabry, Plant City, and South Shore campuses.

NOTE: An additional cost for a criminal background check is required. Drug testing is required.

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 1119</td>
<td>Emergency Medical Technician</td>
<td>7 cr.</td>
</tr>
<tr>
<td>EMS 1191L</td>
<td>Emergency Medical Technician Practicum</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EMS 1431</td>
<td>Emergency Medical Technician (EMT) Clinical</td>
<td>2 cr.</td>
</tr>
</tbody>
</table>

EMT Re-tracking

Emergency Medical Technician (EMT) students have two years to successfully complete all course work and one year from course completion to obtain state certification. Students who do not successfully complete the EMT program within two years or who do not obtain state certification within one year after course completion must retake all courses of the EMT program.

CCC • Paramedic

CCC.PARA (42 Credit Hours)

In addition to performing the skills of an EMT, paramedics are trained in advanced life support techniques, including endotracheal intubation, electrocardiogram monitoring and interpretation, DC electrical counter shock and administration of intravenous fluids and medications.

The program is offered on different schedules with three admission dates per year (see the allied health admissions criteria and procedure section of this catalog).

Effective July 1, 2013, the Florida Department of Health and the Department of Education adopted the 2009 National Emergency Medical Service Education Standards for Paramedic Instruction Guidelines to replace the 1998 DOT EMT and Paramedic National Standard Curriculum. Paramedic is currently offered at the Dale Mabry and South Shore campuses.

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 2621</td>
<td>Paramedic Phase I</td>
<td>7 cr.</td>
</tr>
<tr>
<td>EMS 2621L</td>
<td>Paramedic Phase I Practicum</td>
<td>4 cr.</td>
</tr>
<tr>
<td>EMS 2666</td>
<td>Paramedic Clinical I</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 2622</td>
<td>Paramedic Phase II</td>
<td>8 cr.</td>
</tr>
<tr>
<td>EMS 2622L</td>
<td>Paramedic Phase II Practicum</td>
<td>4 cr.</td>
</tr>
<tr>
<td>EMS 2667</td>
<td>Paramedic Clinical II</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 2617C</td>
<td>Assessment - Based Management Proficiency</td>
<td>2 cr.</td>
</tr>
<tr>
<td>EMS 2623</td>
<td>Paramedic Phase III</td>
<td>6 cr.</td>
</tr>
<tr>
<td>EMS 2623L</td>
<td>Paramedic Phase III Practicum</td>
<td>2 cr.</td>
</tr>
<tr>
<td>EMS 2668</td>
<td>Paramedic Clinical III</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

AS • Health Navigator

AS.HLTH.NAV (60 Credit Hours)

This program is for the student interested in obtaining an AS degree with the intention of entering the workforce as a health navigator, patient navigator, or community health worker. The coursework would also give students the opportunity to pursue a bachelor’s degree in public health, health education or related fields.

Program Required Courses

YEAR I – First Semester
CCC • Health Navigator Specialist
CCC.HLTH.NAV (31 Credit Hours)
Program Required Courses

YEAR I – First Semester
†HSA 2117 Health Care Delivery ................................................................. 3 cr.
†HSC 2100 Health Education ...................................................................... 3 cr.
HSC 2660 Health Communications ............................................................ 3 cr.
PHC 2100 Introduction to Public Health ...................................................... 3 cr.

YEAR I – Second Semester
HSA 2322 Health Insurance .................................................................... 3 cr.
†HSC 2669 Prevention and Community Health ...................................... 3 cr.
HSC 2721 Accessing and Analyzing Health Information ....................... 3 cr.
*Elective .................................................................................................... 3 cr.

YEAR I – Third Semester
HSC 2810 Health Navigator Practicum ...................................................... 4 cr.
*Elective .................................................................................................... 3 cr.

*Select 6 credit hours from the following list:
HSA 2010 Issues and Trends in Public Health ........................................ 3 cr.
HSC 2130 Sex, Health and Decision Making ......................................... 3 cr.
HSC 2561 Care for an Aging Population ................................................. 3 cr.
PHC 2040 Foundations in Epidemiology ................................................. 3 cr.
PHC 2321 Environmental Concepts in Public Health ......................... 3 cr.
*Elective .................................................................................................... 3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 2130</td>
<td>Sex, Health and Decision Making</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HSC 2561</td>
<td>Care for an Aging Population</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PHC 2040</td>
<td>Foundations in Epidemiology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PHC 2321</td>
<td>Environmental Concepts in Public Health</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

**NOTE:** Coursework may be applied to the two-year AS Health Navigator.

## AS • Medical Laboratory Science
**AS.MED.LAB (76 Credit Hours)**

Applicants and potential students applying to the AS program will have earned an Advanced Technical Certificate in medical laboratory technology (or equivalent) with 40 credit hours that transfer from the technical college. Students will earn 36 credit hours at Hillsborough Community College to complete the AS degree.

### Articulated Credit and Electives

**Program Required Courses**

**YEAR I – First Semester**

- BSC 2085 Human Anatomy and Physiology and BSC 2085L, Human Anatomy and Physiology Laboratory ......................................................... 4 cr.
- CHM 1032 Chemistry for Health Sciences and CHM 1032L, Chemistry for Health Sciences Laboratory .......................................................... 4 cr.
- †ENC 1101 English Composition I.................................................................................................................. 3 cr.
- †MAC 1105 College Algebra........................................................................................................................... 3 cr.

**YEAR I – Second Semester**

- †BSC 2086 Human Anatomy and Physiology II and †BSC 2086L, Human Anatomy and Physiology II Laboratory ......................................................... 4 cr.
- CHM 2045 General Chemistry I and CHM 2045L, General Chemistry I Laboratory ................................................. 4 cr.
- †PSY 2012 General Psychology ..................................................................................................................... 3 cr.

**YEAR I – Third Semester**

- †MCB 2000 Microbiology and Human Disease and †MCB 2000L, Microbiology and Human Disease Laboratory ......................................................... 4 cr.
- MLS 2701 Principles of Laboratory Operations ........................................................................................................ 2 cr.

**YEAR II – First Semester**

- MLS 2930 Medical Laboratory Seminar ............................................................................................................. 2 cr.
- Humanities General Education ......................................................................................................................... 3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

## ATC • Medical Laboratory Science
**ATC.MED.LAB (44 Credit Hours)**

**NOTE:** Student must have a bachelor’s degree in chemistry or biology.

### Program Required Courses

**YEAR I – First Semester**

- MLS 2304 Hematology I and Body Fluids ............................................................................................................. 3 cr.
- MLS 2460 Medical Microbiology I .......................................................................................................................... 3 cr.
- MLS 2551 Immunohematology and Immunology .................................................................................................... 4 cr.
- MLS 2001L Laboratory Technique I ....................................................................................................................... 3 cr.

**YEAR I – Second Semester**

- MLS 2307 Hematology II and Hemostasis ............................................................................................................. 3 cr.
- MLS 2465 Medical Microbiology II .......................................................................................................................... 3 cr.
- MLS 2624 Clinical Chemistry I and Urinalysis ....................................................................................................... 3 cr.
- MLS 2002L Laboratory Technique II ....................................................................................................................... 4 cr.

**YEAR I – Third Semester**
Nuclear medicine uses radioactive materials in the diagnosis and treatment of disease. Nuclear medicine technologists prepare and administer radiopharmaceutical materials, operate nuclear instruments, position patients for "imaging" procedures, perform lab tests and work up diagnostic data for physicians. Graduates of this program are eligible to take national registry examinations and Florida licensure for nuclear medicine technologists.

The Nuclear Medicine Technology program is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology, 2000 W. Danforth Road, Suite 130 #203, Edmond, OK 73003, (405) 285-0546 or jrcnmt@coxinet.net. Clinical evaluations are used to assess a student’s performance in the clinical environment.

Prerequisite Courses Required for Admission

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>†BSC 2085 Anatomy and Physiology I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2085L Anatomy and Physiology I Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>CHM 1025 Introductory Chemistry and CHM 1025L, Introductory Chemistry Laboratory</td>
<td>4 cr.</td>
</tr>
<tr>
<td>†ENC 1101 English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105 College Algebra or higher</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PHY 1025 Fundamentals of Physics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PHY 1025L Fundamentals of Physics Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†BSC 2086 Human Anatomy and Physiology II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2086L Human Anatomy and Physiology II Laboratory</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMT 1002 Introduction to Nuclear Medicine Technology</td>
<td>2 cr.</td>
</tr>
<tr>
<td>NMT 1613 Nuclear Physics and Instrumental Applications</td>
<td>3 cr.</td>
</tr>
<tr>
<td>NMT 2003L Medical Laboratory Clinical II</td>
<td>5 cr.</td>
</tr>
<tr>
<td>NMT 2701 Principles of Laboratory Operations</td>
<td>2 cr.</td>
</tr>
<tr>
<td>NMT 2834 Medical Laboratory Clinical I</td>
<td>2 cr.</td>
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</table>

YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>NMT 1804 Nuclear Medicine Practicum I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>NMT 1814 Nuclear Medicine Practicum II</td>
<td>4 cr.</td>
</tr>
<tr>
<td>NMT 2775C PET/CT and Cross Sectional Anatomy</td>
<td>3 cr.</td>
</tr>
<tr>
<td>NMT 2900 Advanced Topics and Research Methods</td>
<td>2 cr.</td>
</tr>
<tr>
<td>NMT 2910 Advanced Topics and Research Methods</td>
<td>2 cr.</td>
</tr>
<tr>
<td>NMT 2910 Advanced Topics and Research Methods</td>
<td>2 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMT 1103 Patient Care</td>
<td>2 cr.</td>
</tr>
<tr>
<td>NMT 1534 Instrumentation, Quality Control, and Quality Assurance</td>
<td>3 cr.</td>
</tr>
<tr>
<td>NMT 1804 Nuclear Medicine Practicum I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>NMT 2061C Nuclear Medicine Seminar</td>
<td>2 cr.</td>
</tr>
<tr>
<td>NMT 2430 Radiation Safety and Biology</td>
<td>3 cr.</td>
</tr>
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</table>

YEAR II – First Semester

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMT 1814 Nuclear Medicine Practicum II</td>
<td>4 cr.</td>
</tr>
<tr>
<td>NMT 2775C PET/CT and Cross Sectional Anatomy</td>
<td>3 cr.</td>
</tr>
<tr>
<td>NMT 2775C PET/CT and Cross Sectional Anatomy</td>
<td>3 cr.</td>
</tr>
<tr>
<td>NMT 3110 PET/CT and Cross Sectional Anatomy</td>
<td>3 cr.</td>
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YEAR II – Second Semester

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>NMT 2051L Nuclear Medicine Data Analysis</td>
<td>1 cr.</td>
</tr>
<tr>
<td>NMT 2824 Nuclear Medicine Practicum III</td>
<td>4 cr.</td>
</tr>
<tr>
<td>†PSY 2012 General Psychology</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>
Humanities General Education ................................................................. 3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Nursing

AS.NUR.NURB AS.NUR.NURT (72 Credit Hours)

Graduates of this program are eligible to apply for the nursing licensing examination administered by the National Council of State Boards of Nursing and, upon successful completion and review of all documentation may receive a Registered Nursing (RN) license.

The HCC Nursing (R.N.) program is accredited by the Accreditation Commission for Education in Nursing (ACEN) located at 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326, telephone (404) 975-5000 or fax (404) 975-5020 or https://www.acenursing.org/. Graduates of the associate in science degree nursing program are able to provide direct patient care to patients in hospitals and comparable health agencies.

The HCC Nursing program is offered at the Dale Mabry, Plant City, and South Shore campuses.

The duration of the program is six terms for the basic option. The program requires a full-time attendance commitment from the student. The program is offered in a day and evening format with both week day, evening, and weekend clinical experiences utilized.

Students, under the careful supervision of the nursing faculty, are provided valuable patient care experiences in participating hospitals, healthcare facilities and community agencies.

Enrollment in the nursing program is limited because of the availability of clinical placements for students to develop competence in their practical skills. Therefore, individuals must make application for consideration for admission to the nursing program. Individuals interested in applying to the program should obtain a nursing packet from Student Services on the Dale Mabry Campus, telephone (813) 253-7364 or online at https://www.hccfl.edu/academics/subjects/health-and-medical/nursing.

Individuals are selected for admission to the Fall and Spring semesters of each academic year.

Students will be required to take nationally normed tests throughout the curriculum.

Minimum Progress Requirements

Basic Student

All non-nursing courses must be completed with a minimum grade of “C” before entering into the final semester of the nursing program.

Clinical Performance

A student who is determined to be unsafe in the clinical component of any nursing course may, at the discretion of the nursing faculty, be immediately removed from that course and will not be able to progress in the program. In addition any student who fails to follow guidelines related to credentialing policies, drug tests and background checks may be removed from their clinical and didactic courses for that semester.

NOTE: Beginning Fall Term 2000, all graduates of this program shall articulate into a Nursing baccalaureate degree in the designated university program under the provision of Rule 6A-10.024, Articulation Between Universities, Community Colleges, and School Districts.

Prerequisite Courses Required for Admission

†BSC 2085 Human Anatomy and Physiology I ................................................................. 3 cr.
†BSC 2085L Human Anatomy and Physiology I Laboratory ........................................ 1 cr.
†BSC 2086 Human Anatomy and Physiology II .............................................................. 3 cr.
†BSC 2086L Human Anatomy and Physiology II Laboratory ..................................... 1 cr.
†ENC 1101 English Composition I .................................................................................. 3 cr.
†MAC 1105 College Algebra or higher mathematics (STA 2023, Elem Statistics is not accepted)........... 3 cr.
†MCB 2000 Microbiology and Human Disease .............................................................. 3 cr.
†MCB 2000L Microbiology and Human Disease Laboratory ........................................ 1 cr.
†SYG 2000 Introduction to Sociology ............................................................................ 3 cr.

AS • Nursing - Basic Option

AS.NUR.NURB

Program Required Courses

YEAR I – First Semester

†ENC 1102 English Composition II ................................................................................. 3 cr.
NUR 1020 Fundamental Concepts of Nursing Practice .................................................... 4 cr.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 1020L</td>
<td>Fundamental Concepts of Nursing Practice Clinical</td>
<td>2 cr.</td>
</tr>
<tr>
<td>NUR 1023C</td>
<td>Essential Concepts of Patient Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>NUR 1024</td>
<td>Critical Thinking in Nursing Practice</td>
<td>2 cr.</td>
</tr>
</tbody>
</table>
**YEAR I – First Semester**
- NUR 1310C: Concepts of Pediatric Nursing ................................................................. 3 cr.
- NUR 1421C: Concepts of Care for Woman and Infants .......................................... 3 cr.
- NUR 1520C: Concepts of Mental Health Nursing ....................................................... 4 cr.
  Humanities General Education .................................................................................. 3 cr.

**YEAR I – Second Semester**
- NUR 1440: Concepts of Family Nursing ..................................................................... 4 cr.
- NUR 2811L: Concepts of Adult Health I Clinical ......................................................... 3 cr.

**YEAR I – Third Semester**
*Specified Electives ............................................................................................................. 3 cr.

**YEAR II – First Semester**
- NUR 2205C: Complex Simulation .............................................................................. 2 cr.
- NUR 2211: Concepts of Adult Health II ........................................................................ 5 cr.
- NUR 2210L: Concepts of Adult Health I Clinical ......................................................... 3 cr.

**YEAR II – Second Semester**
- NUR 2211: Concepts of Adult Health II ........................................................................ 5 cr.
- NUR 2211L: Concepts of Adult Health II Clinical ......................................................... 3 cr.
- NUR 2811C: Role Transformation .................................................................................. 3 cr.

Select 3 specified elective credits from the following:
- †BSC 1025C: Nutrition and Drugs .............................................................................. 3 cr.
- CHM 1032: Chemistry for Health Sciences ................................................................. 3 cr.
- CHM 1032L: Chemistry for Health Sciences Laboratory .............................................. 1 cr.
- †DEP 1004: Developmental Psychology of Life Span .............................................. 3 cr.
- †HUN 2201: Fundamentals of Human Nutrition ......................................................... 3 cr.
- †PHI 1600: Ethics ............................................................................................................. 3 cr.
- †PSY 2012: General Psychology .................................................................................. 3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

**AS • Nursing – LPN Transition Option**
**AS.NUR.NURT**

**Program Required Courses**

NOTE: 10 credit hours of articulated credit or experiential credit may be awarded to individuals who are licensed practical nurses.

**YEAR I – First Semester**
- †ENC 1102: English Composition II ................................................................. 3 cr.
- NUR 1022C: Essential Concepts of Patient Care Management .................................. 2 cr.
- NUR 1024: Critical Thinking in Nursing Practice ....................................................... 2 cr.
- NUR 1440: Concepts of Family Nursing ..................................................................... 4 cr.
- NUR 1522C: Concepts of Mental Health Nursing ....................................................... 3 cr.

**YEAR I – Second Semester**
- NUR 2205C: Complex Simulation .............................................................................. 2 cr.
- NUR 2210: Concepts of Adult Health I ......................................................................... 5 cr.
- NUR 2210L: Concepts of Adult Health I Clinical ......................................................... 3 cr.
  Humanities General Education .................................................................................. 3 cr.

**YEAR I – Third Semester**
- NUR 2211: Concepts of Adult Health II ..................................................................... 5 cr.
- NUR 2211L: Concepts of Adult Health II Clinical ......................................................... 3 cr.
- NUR 2811C: Role Transformation .................................................................................. 3 cr.
  *Specified Electives ............................................................................................................. 3 cr.

*Select 3 specified elective credits from the following:
- †BSC 1025C: Nutrition and Drugs .............................................................................. 3 cr.
- CHM 1032: Chemistry for Health Sciences ................................................................. 3 cr.
- CHM 1032L: Chemistry for Health Sciences Laboratory .............................................. 1 cr.
- †DEP 1004: Developmental Psychology of Life Span .............................................. 3 cr.
- †HUN 2201: Fundamentals of Human Nutrition ....................................................... 3 cr.
AS • Opticianry

AS.OPT (72 Credit Hours)

As an essential part of the “eye care delivery system,” opticians’ measure, fit and adapt eyeglasses and contact lenses to people with vision problems. Coursework covers basic ocular science including: optics, anatomy, contact lenses, and refractometry. It also allows the students to gain specific skills in professional management, eyewear fabrications, and dispensing. Clinical experience is gained in a state-of-the-art on-campus dispensary and at affiliate sites. Graduates of the program are eligible to take state and national certification and/or licensure exams for opticians. Campus based or Internet based programs available. The Opticianry Program is accredited by the Commission on Opticianry Accreditation, P.O. Box 592, Canton, NY 13617.

Program Required Courses

<table>
<thead>
<tr>
<th>AS.OPT (72 Credit Hours)</th>
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</thead>
<tbody>
<tr>
<td><strong>YEAR I – First Semester</strong></td>
</tr>
<tr>
<td>†OPT 1000 Ophthalmic Orientation ......................................................... 1 cr.</td>
</tr>
<tr>
<td>†OPT 1155 Ophthalmic Lens I ................................................................. 3 cr.</td>
</tr>
<tr>
<td>†OPT 1460 Ophthalmic Dispensing I ......................................................... 3 cr.</td>
</tr>
<tr>
<td>†OPT 1460L Ophthalmic Dispensing I Laboratory ....................................... 3 cr.</td>
</tr>
<tr>
<td>†OPT 2204 Anatomy and Physiology of the Eye ........................................ 3 cr.</td>
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</table>

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<tr>
<th>YEAR I – Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>†OPT 1156 Ophthalmic Lens II ............................................................... 3 cr.</td>
</tr>
<tr>
<td>†OPT 1400L Ophthalmic Laboratory I ...................................................... 3 cr.</td>
</tr>
<tr>
<td>†OPT 2500 Contact Lens Theory I ............................................................ 2 cr.</td>
</tr>
<tr>
<td>†OPT 2500L Contact Lens Theory I Laboratory ........................................ 3 cr.</td>
</tr>
<tr>
<td>†OPT 2800L Vision Care Clinical I ............................................................. 2 cr.</td>
</tr>
<tr>
<td>Math/Phy/Ltr General Education ............................................................. 3 cr.</td>
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<tr>
<th>YEAR I – Third Semester</th>
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</thead>
<tbody>
<tr>
<td>†OPT 2461 Ophthalmic Dispensing II ....................................................... 3 cr.</td>
</tr>
<tr>
<td>†OPT 2801L Vision Care Clinical II ......................................................... 2 cr.</td>
</tr>
<tr>
<td>Humanities General Education ................................................................. 3 cr.</td>
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</table>

<table>
<thead>
<tr>
<th>YEAR II – First Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ENC 1101 English Composition I ............................................................ 3 cr.</td>
</tr>
<tr>
<td>†OPT 1430L Ophthalmic Laboratory II ..................................................... 3 cr.</td>
</tr>
<tr>
<td>†OPT 2375 Refractometry ............................................................ 2 cr.</td>
</tr>
<tr>
<td>†OPT 2461L Ophthalmic Dispensing Laboratory II ..................................... 3 cr.</td>
</tr>
<tr>
<td>†OPT 2501 Contact Lens Theory II .......................................................... 2 cr.</td>
</tr>
<tr>
<td>†OPT 2802L Vision Care Clinical III ......................................................... 2 cr.</td>
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<th>YEAR II – Second Semester</th>
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</thead>
<tbody>
<tr>
<td>†OPT 2375L Refractometry Laboratory .................................................... 2 cr.</td>
</tr>
<tr>
<td>†OPT 2463L Ophthalmic Skills Laboratory I ............................................ 2 cr.</td>
</tr>
<tr>
<td>†OPT 2501L Contact Lens II Laboratory .................................................. 2 cr.</td>
</tr>
<tr>
<td>†OPT 2803L Vision Care Clinical IV ......................................................... 2 cr.</td>
</tr>
<tr>
<td>OPT 2910 Directed Research .................................................................. 3 cr.</td>
</tr>
<tr>
<td>Social Science General Education.......................................................... 3 cr.</td>
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<tr>
<th>YEAR II – Third Semester</th>
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</thead>
<tbody>
<tr>
<td>†OPT 2030 Ophthalmic Board Review ...................................................... 1 cr.</td>
</tr>
<tr>
<td>†OPT 2376L Refractometry II Laboratory .............................................. 1 cr.</td>
</tr>
<tr>
<td>†OPT 2502L Contact Lens III Laboratory ................................................ 1 cr.</td>
</tr>
<tr>
<td>Social Science General Education .......................................................... 3 cr.</td>
</tr>
</tbody>
</table>

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
ATC • Visual Assessment
ATC.OPT (11 Credit Hours)

This 11 credit hour program provides training in safety and sports vision, low vision and refraction for students who have already earned an associate degree in Opticianry.

Program Required Courses

YEAR I – First Semester
†OPT 1225 Low Vision ................................................................................................................................. 3 cr.
†OPT 1666 Safety and Sports Vision .......................................................................................................... 3 cr.
†OPT 2375 Refractometry ............................................................................................................................ 2 cr.

YEAR I – Second Semester
OPT 2375L Refractometry Laboratory I ...................................................................................................... 2 cr.

YEAR I – Third Semester
†OPT 2376L Refractometry Laboratory II .................................................................................................... 1 cr.
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

CCC • Ophthalmic Laboratory Technician
CCC.OPT.LAB.TECH (24 Credit Hours)

This program teaches surfacing, finishing and other related tasks necessary to fabricate prescription eyewear. It will prepare you to work in a wholesale or retail optical laboratory. All credits from this certificate may be applied to the Opticianry degree.

Program Required Courses

YEAR I – First Semester
†OPT 1000 Ophthalmic Orientation ........................................................................................................... 1 cr.
†OPT 1155 Ophthalmic Lens I ..................................................................................................................... 3 cr.
†OPT 1460 Ophthalmic Dispensing I ......................................................................................................... 3 cr.
†OPT 1460L Ophthalmic Dispensing I Laboratory ..................................................................................... 3 cr.
†OPT 2204 Anatomy and Physiology of the Eye ...................................................................................... 3 cr.
YEAR I – Second Semester
†OPT 1156 Ophthalmic Lens II ................................................................................................................... 3 cr.
†OPT 1400L Ophthalmic Laboratory I .......................................................................................................... 3 cr.
†OPT 2500 Contact Lens Theory I .............................................................................................................. 3 cr.
†OPT 2800L Vision Care Clinical I ................................................................................................................ 2 cr.
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Radiation Therapy
AS.RAT.GEN (77 Credit Hours)

This program is designed for students who want to work directly with patients receiving high-energy treatments using state-of-the-art and cutting-edge technology. Students will work with a physician to administer patient treatment. Students’ performance will be based on didactic and clinical competencies.

Upon successful completion of the program, students are eligible to apply for the national radiation therapy examination administered by the American Registry of Radiologic Technologists.

The Radiation Therapy program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182 (312) 704-5300 or https://jrcert.org, mail@jrcert.org.

NOTE: All graduates of this program shall articulate into the University of South Florida bachelors of science in applied science (BSAS) degree program.

Prerequisite Courses Required for Admission
†BSC 2085 Anatomy and Physiology I ...................................................................................................... 3 cr.
†BSC 2085L Anatomy and Physiology I Laboratory .................................................................................. 1 cr.
†ENC 1101 English Composition I .............................................................................................................. 3 cr.
†MAC 1105 College Algebra or higher level math ..................................................................................... 3 cr.
†PSY 2012 General Psychology .................................................................................................................. 3 cr.
Program Required Courses

YEAR I – First Semester

†BSC 2086 Anatomy and Physiology II ..................................................................................................... 3 cr.
†BSC 2086L Anatomy and Physiology II Laboratory ................................................................................. 1 cr.
RAT 1614 Radiation Therapy Physics I .................................................................................................... 2 cr.
RAT 1691L Introduction to Clinical Concepts ........................................................................................... 1 cr.
RAT 2001C Introduction to Radiation Therapy ........................................................................................... 2 cr.
Humanities General Education ........................................................................................................... 3 cr.

YEAR I – Second Semester

†ENC 1102 English Composition II ............................................................................................................. 3 cr.
RAT 1618 Radiation Therapy Physics II ................................................................................................... 2 cr.
RAT 1800 Introduction to Radiation Therapy Clinic I ........................................................................... 1 cr.
RTE 1157 Medical Imaging of Human Structures .................................................................................. 3 cr.
RTE 1782 Pathology of Medical/Surgical Diseases ................................................................................ 3 cr.

YEAR I – Third Semester

RAT 1810 Introduction to Radiation Therapy Clinic II ............................................................................ 2 cr.
RAT 2023 Principles and Practices of Radiation Therapy I ..................................................................... 3 cr.
RAT 2303 Psychosocial Aspect of Oncology ........................................................................................... 2 cr.

YEAR II – First Semester

RAT 2242 Principles and Practices of Radiation Therapy II .................................................................... 3 cr.
RAT 2620 Radiation Therapy Physics III .................................................................................................. 3 cr.
RAT 2804 Radiation Therapy Clinic I ..................................................................................................... 3 cr.
RAT 2901 Simulation Lecture I .................................................................................................................. 1 cr.
RAT 2901L Simulation Laboratory I .......................................................................................................... 1 cr.

YEAR II – Second Semester

RAT 2021 Radiation Therapy Treatment Planning ................................................................................... 3 cr.
RAT 2621C Radiation Therapy Physics IV ................................................................................................ 3 cr.
RAT 2814 Radiation Therapy Clinic II ..................................................................................................... 3 cr.
RAT 2902 Simulation Lecture II ................................................................................................................ 1 cr.
RAT 2902L Simulation Laboratory II ........................................................................................................ 1 cr.
RTE 2385 Radiation Biology ................................................................................................................... 3 cr.

YEAR II – Third Semester

RAT 2061 Radiographic Seminar ............................................................................................................. 2 cr.
RAT 2619L Computer Applications in Treatment Planning ................................................................. 2 cr.
RAT 2824 Radiation Therapy Clinic II ..................................................................................................... 3 cr.
RTE 2473L Quality Assurance in Radiation Therapy ................................................................................ 1 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

CCC • Radiation Therapy Specialist

CCC.RAT.SPEC (43 Credit Hours)

This program is designed for students who have successfully completed a program in Radiography and are eligible or certified by the American Registry of Radiologic Technologists. This program is designed for students who want to work directly with patients receiving high-energy treatments using state-of-the-art and cutting-edge technology. Students will work with a physician to administer patient treatment.

Upon successful completion of the program, students are eligible to apply for the national radiation therapy examination administered by the American Registry of Radiologic Technologists.

The program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182 (312) 704-5300.

Students’ performance will be based on didactic and clinical competencies.

Prerequisite for Admission

Applicants must be ARRT certified or eligible to sit for ARRT exam by the application deadline and must be ARRT certified by the first day of class.
Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>†CGS 1107</td>
<td>Introduction to Computers</td>
<td>1 cr.</td>
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<tr>
<td>CGS 1160</td>
<td>Desktop Information Management</td>
<td>1 cr.</td>
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<td>RAT 1810</td>
<td>Introduction to Radiation Therapy Clinic II</td>
<td>2 cr.</td>
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<tr>
<td>RAT 2023</td>
<td>Principles and Practices of Radiation Therapy I</td>
<td>3 cr.</td>
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<tr>
<td>RAT 2303</td>
<td>Psychosocial Aspect of Oncology</td>
<td>2 cr.</td>
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YEAR I – Second Semester

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>RAT 2242</td>
<td>Principles and Practices of Radiation Therapy II</td>
<td>3 cr.</td>
</tr>
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<td>RAT 2620</td>
<td>Radiation Therapy Physics III</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RAT 2804</td>
<td>Radiation Therapy Clinic I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RAT 2901</td>
<td>Simulation Lecture I</td>
<td>1 cr.</td>
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<tr>
<td>RAT 2901L</td>
<td>Simulation Laboratory I</td>
<td>1 cr.</td>
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YEAR I – Third Semester

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>RAT 2021</td>
<td>Radiation Therapy Treatment Planning</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RAT 2621C</td>
<td>Radiation Therapy Physics IV</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RAT 2814</td>
<td>Radiation Therapy Clinic II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RAT 2902</td>
<td>Simulation Lecture II</td>
<td>1 cr.</td>
</tr>
<tr>
<td>RAT 2902L</td>
<td>Simulation Laboratory II</td>
<td>1 cr.</td>
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<td>RTE 2385</td>
<td>Radiation Biology</td>
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YEAR II – First Semester

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<tbody>
<tr>
<td>RAT 2619L</td>
<td>Radiographic Seminar</td>
<td>2 cr.</td>
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<td>RAT 2619</td>
<td>Computer Applications in Treatment Planning</td>
<td>2 cr.</td>
</tr>
<tr>
<td>RAT 2824</td>
<td>Radiation Therapy Clinic II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTE 2473L</td>
<td>Quality Assurance in Radiation Therapy</td>
<td>1 cr.</td>
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</tbody>
</table>

AS • Radiography

AS.RTE (77 Credit Hours)

Radiographers perform diagnostic radiographic (X-ray) procedures and x-ray images of the human body which help diagnose and treat injury and disease. This program includes course work and practical experiences where students will work directly with patients in area clinical educational settings. Students will also simulate radiographic procedures in the program’s state-of-the-art laboratory.

Graduates are eligible to take the national American Registry of Radiologic Technologists certification examination and will also be eligible for a Florida Radiographer license.

The Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-2901, (312) 704-5300 or https://www.jrcert.org, mail@jrcert.org.

NOTE: Beginning Fall Term 2000, all graduates of this program shall articulate into a Radiologic Technology baccalaureate degree in the designated university program under the provision of Rule 6A-10.024, Articulation Between Universities, Community Colleges, and School Districts.

Prerequisite Courses Required for Admission

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>†BSC 2085</td>
<td>Anatomy and Physiology I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2085L</td>
<td>Anatomy and Physiology I Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
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<td>†MAC 1105</td>
<td>College Algebra</td>
<td>3 cr.</td>
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<tr>
<td>†PSY 2012</td>
<td>General Psychology</td>
<td>3 cr.</td>
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Program Required Courses

YEAR I – First Semester

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<th>Course Code</th>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>HSC 1220</td>
<td>Introduction to Health Sciences</td>
<td>1 cr.</td>
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<tr>
<td>RTE 1000</td>
<td>Introduction to Radiology</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>RTE 1111</td>
<td>Introduction to Radiography Patient Care</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>RTE 1503</td>
<td>Radiographic Positioning I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTE 1503L</td>
<td>Radiographic Positioning I Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>RTE 1607</td>
<td>Radiographic Science Principles</td>
<td>1 cr.</td>
</tr>
<tr>
<td>RTE 1800</td>
<td>Introduction to Radiography Practicum</td>
<td>2 cr.</td>
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</table>
YEAR I – Second Semester
RTE 1308 Radiation Protection and Safety................................................................. 2 cr.
RTE 1418 Principles of Radiographic Exposure I.................................................... 3 cr.
RTE 1418L Principles of Radiographic Exposure I Laboratory........................... 1 cr.
RTE 1513 Radiographic Positioning II................................................................. 3 cr.
RTE 1513L Radiographic Positioning II Laboratory.............................................. 1 cr.
RTE 1804 Radiography Practicum I................................................................. 3 cr.

YEAR I – Third Semester
†BSC 2086 Human Anatomy and Physiology II.................................................... 3 cr.
†BSC 2086L Human Anatomy and Physiology II Laboratory............................. 1 cr.
RTE 1523 Radiographic Positioning III................................................................. 3 cr.
RTE 1523L Radiographic Positioning III Laboratory........................................... 1 cr.
RTE 1814 Radiography Practicum II................................................................. 3 cr.

YEAR II – First Semester
†CGS 1000 Introduction to Computers and Technology......................................... 3 cr.
RTE 1457 Principles of Radiographic Exposure II................................................ 1 cr.
RTE 1613 Radiographic Physics I................................................................. 3 cr.
RTE 1824 Radiography Practicum III................................................................. 3 cr.
RTE 2563 Special Radiographic Procedures.......................................................... 2.5 cr.

YEAR II – Second Semester
RTE 1782 Pathology of Medical/Surgical Disease............................................... 3 cr.
RTE 2385 Radiation Biology.................................................................................. 3 cr.
RTE 2834 Radiography Practicum IV................................................................. 3 cr.

YEAR II – Third Semester
RTE 2061 Radiographic Seminar........................................................................... 2 cr.
RTE 2473L Quality Assurance.............................................................................. 1 cr.
RTE 2844 Radiography Practicum V................................................................... 1.5 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

**ATC • Computed Tomography Advanced Imaging**
**ATC.TOM (14 Credit Hours)**

Program Required Courses

YEAR I – First Semester
RTE 1597C Principles of Computed Tomography I.............................................. 4 cr.
RTE 1805 CT Clinical Education I....................................................................... 3 cr.

YEAR I – Second Semester
RTE 2596 Principles of Computed Tomography II.............................................. 4 cr.
RTE 2815 CT Clinical Education II.................................................................... 3 cr.

**ATC • Magnetic Resonance Imaging**
**ATC.MRI (15 Credit Hours)**

Program Required Courses

YEAR I – First Semester
RTE 2760 MRI Anatomy....................................................................................... 3 cr.
RTE 2575 MRI Imaging I..................................................................................... 3 cr.
RTE 2940 MRI Clinical I..................................................................................... 1 cr.

YEAR I – Second Semester
RTE 2576 MRI Imaging II.................................................................................... 3 cr.
RTE 2941 MRI Clinical II.................................................................................... 2 cr.

YEAR I – Third Semester
RTE 2942 MRI Clinical III.................................................................................... 3 cr.
AS • Respiratory Care

AS.RET (76 Credit Hours)

Respiratory care is an allied health discipline operating with medical direction in the treatment, management, control, diagnostic evaluation and rehabilitation of patients with abnormalities of the cardiopulmonary system.

Respiratory care includes the therapeutic use of the following: medical gases and administration devices, environmental control systems, humidification, aerosols, medications, ventilatory support, bronchopulmonary drainage, cardiopulmonary resuscitation, and airway management. Specific testing techniques are employed in respiratory care to assist in diagnosis, monitoring, treatment and research. Clinical evaluations will be used to evaluate performance in the clinical environment.

Students who complete this program will be eligible to take the national certification and registry exams administered by the National Board for Respiratory Care (NBRC). Upon completion of the exams, students will be a Registered Respiratory Therapist (RRT). Most states require a license to practice.

The Respiratory Care program is accredited by the Commission on Accreditation for Respiratory Care, 1248 Harwood Road, Bedford, TX, 76021-4244, https://www.coarc.com/.

Prerequisite Courses Required for Admission

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>†BSC 2085</td>
<td>Anatomy and Physiology I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2085L</td>
<td>Anatomy and Physiology I Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†BSC 2086</td>
<td>Anatomy and Physiology II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2086L</td>
<td>Anatomy and Physiology II Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105</td>
<td>College Algebra</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MCB 2000</td>
<td>Microbiology and Human Disease</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MCB 2000L</td>
<td>Microbiology Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†PSY 2012</td>
<td>General Psychology</td>
<td>3 cr.</td>
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</table>

Program Required Courses

YEAR I – First Semester

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>RET 1024</td>
<td>Introduction to Respiratory Care</td>
<td>4 cr.</td>
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<tr>
<td>RET 1024L</td>
<td>Introduction to Respiratory Care Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>RET 1350</td>
<td>Pharmacology for Respiratory Care</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RET 1485</td>
<td>Cardiopulmonary Anatomy and Physiology</td>
<td>3 cr.</td>
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YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>RET 1274C</td>
<td>Basis Respiratory Care</td>
<td>6 cr.</td>
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<tr>
<td>RET 1503</td>
<td>Cardiopulmonary Pathophysiology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RET 1832</td>
<td>Respiratory Care Clinic I</td>
<td>2 cr.</td>
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YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>RET 1833</td>
<td>Respiratory Care Clinic II</td>
<td>1 cr.</td>
</tr>
<tr>
<td>RET 2264C</td>
<td>Principles of Mechanical Ventilation</td>
<td>5 cr.</td>
</tr>
<tr>
<td></td>
<td>Humanities General Education</td>
<td>3 cr.</td>
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YEAR II – First Semester

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>RET 2283</td>
<td>Respiratory Intensive Care</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RET 2714C</td>
<td>Pediatric and Neonatal Respiratory Care</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RET 2834</td>
<td>Respiratory Care Clinic III</td>
<td>2 cr.</td>
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YEAR II – Second Semester

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>RET 2413C</td>
<td>Pulmonary Diagnostics</td>
<td>2 cr.</td>
</tr>
<tr>
<td>RET 2533C</td>
<td>Advanced Respiratory Care</td>
<td>8 cr.</td>
</tr>
<tr>
<td>RET 2835</td>
<td>Respiratory Care Clinic IV</td>
<td>2 cr.</td>
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YEAR II – Third Semester

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<th>Hours</th>
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<tbody>
<tr>
<td>RET 2836</td>
<td>Respiratory Care Clinic V</td>
<td>1 cr.</td>
</tr>
<tr>
<td>RET 2930</td>
<td>Respiratory Care Seminar</td>
<td>3 cr.</td>
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</table>

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
AS • Respiratory Care - Transition
AS.RET.TRAN

An individual who has earned the Certified Respiratory Therapist credential from the National Board for Respiratory Care (NBRC) is eligible to receive 23 hours of college credit* toward the associate in science degree in Respiratory Care.

Prerequisite Courses Required for Admission

†BSC 2085 Anatomy and Physiology I ................................................................. 3 cr.
†BSC 2085L Anatomy and Physiology I Laboratory........................................... 1 cr.
†BSC 2086 Anatomy and Physiology II ............................................................ 3 cr.
†BSC 2086L Anatomy and Physiology II Laboratory......................................... 1 cr.
†ENC 1101 English Composition I ................................................................. 3 cr.
†MAC 1105 College Algebra ........................................................................... 3 cr.
†MCB 2000 Microbiology and Human Disease ............................................. 3 cr.
†MCB 2000L Microbiology and Human Disease Laboratory.......................... 1 cr.
†PSY 2012 General Psychology ...................................................................... 3 cr.

Humanities General Education ..................................................................... 3 cr.

Program Required Courses

YEAR I – First Semester
RET 2264C Principles of Mechanical Ventilation........................................... 5 cr.

YEAR I – Second Semester
RET 2283 Respiratory Intensive Care ............................................................ 3 cr.
RET 2714C Pediatric and Neonatal Respiratory Care ..................................... 3 cr.
RET 2834 Respiratory Care Clinic III ............................................................ 2 cr.

YEAR I – Third Semester
RET 2413C Pulmonary Diagnostics ............................................................... 2 cr.
RET 2533C Advanced Respiratory Care ....................................................... 8 cr.
RET 2835 Respiratory Care Clinic IV ............................................................ 2 cr.

YEAR I – First Semester
RET 2836 Respiratory Care Clinic V ............................................................. 1 cr.
RET 2930 Respiratory Care Seminar .............................................................. 3 cr.

*Experiential Credit Awarded
RET 1024 Introduction to Respiratory Care ................................................. 4 cr.
RET 1053 Cardiopulmonary Pathophysiology ............................................. 3 cr.
RET 1274C Basis Respiratory Care ............................................................... 6 cr.
RET 1350 Pharmacology for Respiratory Care ........................................... 3 cr.
RET 1832 Respiratory Care Clinic I .............................................................. 2 cr.
RET 1833 Respiratory Care Clinic II ............................................................. 1 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Surgical Technology
AS.SURG.TECH (64 Credit Hours)

Surgical technologists are allied health professionals who are an integral part of the team of medical practitioners providing surgical care to patients. Surgical technologists work under the supervision of a surgeon to facilitate the safe and effective conduct of invasive surgical procedures, ensuring that the operating room environment is safe, that equipment functions correctly, and that the operative procedure is conducted under conditions that maximize patient safety. Surgical technologists possess expertise in the theory and application of sterile and aseptic technique and combine the knowledge of human anatomy, surgical procedures, and implementation of instruments and technologies to facilitate a physician’s performance of invasive therapeutic and diagnostic procedures.

The program and curriculum were built around the Association of Surgical Technologists’ Standards of Practice. These standards and the Core Curriculum for Surgical Technology provide the foundation for the program. Upon graduation, students will be eligible to sit for the national certification examination administered by the National Board of Surgical Technology and Surgical Assisting (NBSTSA).
### Prerequisite Courses Required for Admission

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>†BSC 2085</td>
<td>Human Anatomy and Physiology I</td>
<td>3 cr.</td>
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<td>†BSC 2085L</td>
<td>Human Anatomy and Physiology I Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†BSC 2086</td>
<td>Human Anatomy and Physiology II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†BSC 2086L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105</td>
<td>College Algebra or †STA 2023, Elementary Statistics, or any higher math course</td>
<td>3 cr.</td>
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<tr>
<td>PSY 2012</td>
<td>General Psychology or SYG 2000, Introduction to Sociology</td>
<td>3 cr.</td>
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**YEAR I – First Semester**

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<td>Orientation to Perioperative Services</td>
<td>3 cr.</td>
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<td>HSC 2006L</td>
<td>Orientation to Perioperative Services Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>HSC 2520</td>
<td>Microbiology for Perioperative Services</td>
<td>3 cr.</td>
</tr>
<tr>
<td>STS 1300C</td>
<td>Surgical Anatomy and Pathophysiology</td>
<td>4 cr.</td>
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<td>Humanities General Education</td>
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**YEAR I – Second Semester**

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<td>Surgical Techniques and Procedures</td>
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<td>STS 1310L</td>
<td>Surgical Techniques and Procedures Laboratory</td>
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<td>STS 1340C</td>
<td>Pharmacology and Anesthesia</td>
<td>3 cr.</td>
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<td>STS 1940C</td>
<td>Introduction to Surgery Clinical</td>
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**YEAR I – Third Semester**

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<td>Surgical Procedures I</td>
<td>4 cr.</td>
</tr>
<tr>
<td>STS 2323L</td>
<td>Surgical Procedures Simulation Laboratory I</td>
<td>1 cr.</td>
</tr>
<tr>
<td>STS 2944C</td>
<td>Surgical Clinical I</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STS 2324</td>
<td>Surgical Procedures II</td>
<td>4 cr.</td>
</tr>
<tr>
<td>STS 2324L</td>
<td>Surgical Procedures Simulation II Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>STS 2365</td>
<td>Professional Skills for the OR Team</td>
<td>1 cr.</td>
</tr>
<tr>
<td>STS 2936</td>
<td>Surgical Certification Symposium</td>
<td>2 cr.</td>
</tr>
<tr>
<td>STS 2945C</td>
<td>Surgical Clinical II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>STS 2954</td>
<td>Surgical Technologist Portfolio</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>
Associate in Science Degree/Technical Programs

AS • Accounting Technology

This program will prepare students for a position as an accountant or as an accounting paraprofessional in advanced professional accounting occupations requiring analysis, evaluation, theory and design. The course work focuses on basic accounting functions as well as skills common to several fields of business, including finance, business law and general business topics.

AS • Financial Option
AS.ACG.TECH. FIN (60 Credit Hours)

Program Required Courses

YEAR I – First Semester
†ACG 2021 Financial Accounting ................................................................................................................ 3 cr.
†CGS 1000 Introduction to Computers and Technology ......................................................................... 3 cr.
†ENC 1101 English Composition I .............................................................................................................. 3 cr.
Mathematics General Education ............................................................................................. 3 cr.

YEAR I – Second Semester
†ACG 2071 Managerial Accounting ............................................................................................................ 3 cr.
†ECO 2013 Principles of Macroeconomics................................................................................................. 3 cr.
GEB 1011 Introduction to Business ........................................................................................................... 3 cr.
†PSY 2012 General Psychology or †SYG 2000, Introduction to Sociology ............................................ 3 cr.

YEAR I – Third Semester
ACG 2104 Intermediate Accounting I ....................................................................................................... 3 cr.
ENT 1000 Introduction to Entrepreneurship ........................................................................................... 3 cr.

YEAR II – First Semester
ACG 2061 Computers in Accounting ........................................................................................................ 3 cr.
†GEB 2214 Business Communications and Technology ........................................................................... 3 cr.
PHI 1600 Ethics ........................................................................................................................................... 3 cr.
†TAX 2000 Federal Tax Accounting I ......................................................................................................... 3 cr.

YEAR II – Second Semester
ACG 2450 Microcomputers in Accounting ............................................................................................... 3 cr.
ACG 2681 Financial Investigation ............................................................................................................. 3 cr.
ENT 1411 Small Business Accounting and Finance ................................................................................ 3 cr.
†FIN 2001 Principles of Finance ................................................................................................................. 3 cr.

YEAR II – Third Semester
ACG 2949 Cooperative Education Internship in Accounting ................................................................ 3 cr.
ACG 2960 Comprehensive Examination – Financial Option .................................................................. 3 cr.

AS • Tax Option
AS.ACG.TECH. TAX (60 Credit Hours)

Program Required Courses

YEAR I – First Semester
†ACG 2021 Financial Accounting ................................................................................................................ 3 cr.
†CGS 1000 Introduction to Computers and Technology ......................................................................... 3 cr.
†ENC 1101 English Composition I .............................................................................................................. 3 cr.
Mathematics General Education ............................................................................................. 3 cr.

YEAR I – Second Semester
†ACG 2071 Managerial Accounting ............................................................................................................ 3 cr.
†ECO 2013 Principles of Macroeconomics................................................................................................. 3 cr.
GEB 1011 Introduction to Business ........................................................................................................... 3 cr.
†PSY 2012 General Psychology or †SYG 2000, Introduction to Sociology ............................................ 3 cr.

YEAR I – Third Semester
ACG 2104 Intermediate Accounting I ....................................................................................................... 3 cr.
†MAN 2021 Principles of Management ..................................................................................................... 3 cr.
### AS • Aquaculture

**AS • AQUA (60 Credit Hours)**

This program will provide students with the knowledge and skills for an entry-level job in the aquaculture industry as a field/farm assistant or a laboratory technician. When students graduate they may also find employment in state agencies such as the Fresh Water Fish and Wildlife Commission that oversee environment and wildlife.

#### Program Required Courses

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1107</td>
<td>Introduction to Computers</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FAS 1012C</td>
<td>Aquacultural Organisms</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ZOO 1450</td>
<td>Ichthyology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ZOO 1450L</td>
<td>Ichthyology Laboratory</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>

**YEAR I – Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 1025</td>
<td>Introductory Chemistry</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CHM 1025L</td>
<td>Introductory Chemistry Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†ESC 1000</td>
<td>Earth Science and †ESC 1000L, Earth Science Laboratory or OCB 2000, Marine Biology and OCB 2000L, Marine Biology Laboratory</td>
<td>4 cr.</td>
</tr>
<tr>
<td>FAS 1401L</td>
<td>Aquacultural Laboratory Techniques</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FAS 2263C</td>
<td>Aquacultural Reproductive Techniques</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR I – Third Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†EVR 1001C</td>
<td>Introduction to Environmental Science</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FAS 2941L</td>
<td>Aquacultural Field Experience I</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAS 2240C</td>
<td>Aquacultural Nutritional Techniques</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FAS 2253</td>
<td>Aquacultural Disease Processes</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FAS 2253L</td>
<td>Aquacultural Disease Processes Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>FAS 2942L</td>
<td>Aquacultural Field Experience II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ANT 2000</td>
<td>Introduction to Anthropology or †PSY 2012, General Psychology or †SYG 2000, Introduction to Sociology</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAS 1404C</td>
<td>Aquacultural Field Techniques</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FAS 2353C</td>
<td>Aquacultural Management Practices</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FAS 2943L</td>
<td>Aquacultural Field Experience III</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SPC 1006</td>
<td>Speech Improvement</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Architectural Design and Construction Technology

AS.ADCT (66 Credit Hours)

This program will prepare students for a position as a construction planner or as an assistant to an architect or an architectural engineer in the planning and designing of structures, using construction materials and working with contracts and specifications. If students pass the contractor’s exam, they may become self-employed as contractors. The course work in this program focuses on using the latest technology to solve problems faced by the architect, the engineer and building contractor as they apply to the planning and construction of buildings.

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCN 1210</td>
<td>Construction Materials and Processes</td>
<td>3</td>
</tr>
<tr>
<td>BCN 1250</td>
<td>Introduction to Graphic Technology</td>
<td>3</td>
</tr>
<tr>
<td>BCN 2272</td>
<td>Blueprint Reading</td>
<td>3</td>
</tr>
<tr>
<td>TAR 2053</td>
<td>Introduction to Computer Aided Design and Drafting</td>
<td>3</td>
</tr>
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</table>

YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC 2461</td>
<td>Materials and Methods I</td>
<td>3</td>
</tr>
<tr>
<td>BCN 2291C</td>
<td>Construction Materials Testing I</td>
<td>3</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 1170C</td>
<td>B.I.M. I Revit Residential</td>
<td>3</td>
</tr>
<tr>
<td>TAR 2054</td>
<td>Intermediate Computer Aided Design and Drafting</td>
<td>3</td>
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YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ANT 2000</td>
<td>Introduction to Anthropology or †PSY 2010, General Psychology or †SYG 2000, Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>†CCS 1107</td>
<td>Introduction to Computers</td>
<td>1</td>
</tr>
<tr>
<td>†SPC 1006</td>
<td>Speech Improvement</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Natural Science General Education or Social Science General Education or Humanities General Education</td>
<td>3</td>
<td></td>
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</table>

YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BCT 2770C</td>
<td>Construction Estimating</td>
<td>3</td>
</tr>
<tr>
<td>SUR 2000C</td>
<td>Surveying I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 1171C</td>
<td>B.I.M. II Revit Commercial</td>
<td>3</td>
</tr>
<tr>
<td>TAR 1172C</td>
<td>B.I.M. III Revit M.E.P.</td>
<td>3</td>
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YEAR II – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ARC 2304</td>
<td>Architectural Design IV</td>
<td>5</td>
</tr>
<tr>
<td>ARC 2501</td>
<td>Architectural Structures I</td>
<td>4</td>
</tr>
<tr>
<td>BCN 2939C</td>
<td>Construction Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

*May require additional coursework.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Biotechnology Laboratory Technology

AS.BIO.TECH (60 Credit Hours)

This program prepares students seeking positions as biotechnology laboratory technicians, biological technicians, and medical or clinical technicians. It will enable individuals currently employed in biotechnology occupations to update skills to address changing technologies for career advancement. Biotechnology is a high-skill, high-demand, high-wage industry.

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
</tbody>
</table>
†MAC 1105  College Algebra ................................................................................................................. 3 cr.
†MCB 2000  Microbiology and Human Disease ....................................................................................... 3 cr.
†MCB 2000L Microbiology and Human Disease Laboratory .............................................................. 1 cr.

YEAR I – Second Semester
†BSC 2010  Biological Science I ............................................................................................................. 3 cr.
BSC 2010L  Biological Science I Laboratory ............................................................................................ 1 cr.
*CHM 2045  General Chemistry I ............................................................................................................ 3 cr.
*CHM 2045L  General Chemistry I Laboratory .......................................................................................... 1 cr.
†STA 2023  Elementary Statistics ............................................................................................................ 3 cr.

YEAR I – Third Semester
BSC 2420  Biotechnology I ...................................................................................................................... 3 cr.
BSC 2420L  Biotechnology I Laboratory ................................................................................................... 2 cr.
CHM 2046  General Chemistry II ............................................................................................................ 3 cr.
CHM 2046L  General Chemistry II Laboratory .......................................................................................... 1 cr.
Elective ............................................................................................................................................... 3 cr.

YEAR II – First Semester
BSC 2427  Biotechnology II ..................................................................................................................... 3 cr.
BSC 2427L  Biotechnology II Laboratory ................................................................................................. 2 cr.
BSC 2435C  Bioinformatics ...................................................................................................................... 3 cr.
†PSY 2012  General Psychology .............................................................................................................. 3 cr.

YEAR II – Second Semester
BSC 2419C  Plant and Animal Cell Culture ............................................................................................ 3 cr.
†PHI 1600  Ethics .................................................................................................................................... 3 cr.
Elective ............................................................................................................................................... 10 cr.

*Select 13 credit hours from the following:
†BSC 1092  Human Biology ....................................................................................................................... 3 cr.
BSC 1092L  Human Biology Laboratory .................................................................................................. 1 cr.
BSC 2943  Biotechnology Internship ....................................................................................................... 3 cr.
CGS 1000  Introduction to Computers and Technology ......................................................................... 3 cr.
CHM 2210  Organic Chemistry I .............................................................................................................. 4 cr.
CHM 2210L  Organic Chemistry I Laboratory ........................................................................................... 1 cr.
CHM 2211  Organic Chemistry II ............................................................................................................ 4 cr.
CHM 2211L  Organic Chemistry II Laboratory ........................................................................................ 1 cr.
ETI 1110  Introduction to Quality ........................................................................................................... 3 cr.
ETI 1701  Industrial Safety ....................................................................................................................... 3 cr.
ETI 1802  Introduction to Process Technology ....................................................................................... 3 cr.
MAC 1106  Combined College Algebra/Pre-Calculus ........................................................................... 5 cr.
MAC 2311  Calculus and Analytic Geometry I ....................................................................................... 5 cr.
MAC 2312  Calculus and Analytic Geometry II ...................................................................................... 5 cr.
MAC 2313  Calculus and Analytic Geometry III ..................................................................................... 5 cr.
MAP 2302  Differential Equations ............................................................................................................ 3 cr.
MCB 2910L Guided Undergraduate Research ....................................................................................... 1 cr.
PHY 1025  Fundamental of Physics ......................................................................................................... 3 cr.
PHY 1025L  Fundamental of Physics Laboratory ...................................................................................... 1 cr.

*Requires additional coursework.
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Business Administration
AS.BUS.MAN/AS.BUS.MAN.INT (60 Credit Hours)
AS • Business Administration and Management
AS.BUS.MAN
The associate in science degree in Business Administration and Management prepares students to assume management or supervisory positions in business, industry, and government. It provides basic skills in a broad range of business functions including accounting, computer usage, management, and marketing.

NOTE: Beginning Fall Term 2000, all graduates of this program shall articulate into a business administration baccalaureate degree (in those programs not accredited by AACSB, please note USF is AACSB accredited) in the designated university program under the provision of Rule 6A-10.024, Articulation between Universities, Community Colleges, and School Districts.

Program Required Courses

YEAR I – First Semester
†CGS 1000 Introduction to Computers and Technology ................................................................. 3 cr.
†ENC 1101 English Composition I ........................................................................................................ 3 cr.
†GEB 1011 Introduction to Business....................................................................................................... 3 cr.
†MAC 1105 College Algebra ......................................................................................................................... 3 cr.

YEAR I – Second Semester
†GEB 2214 Business Communications and Technology ................................................................. 3 cr.
†MAC 2233C Calculus for Business and Social Science ................................................................. 3 cr.
†MAN 2021 Principles of Management ................................................................................................. 3 cr.
*Electives offered during this term ........................................................................................ 3 cr.

YEAR I – Third Semester
†ECO 2013 Principles of Macroeconomics ................................................................................................. 3 cr.
†STA 2023 Elementary Statistics................................................................................................................. 3 cr.
Humans General Education ............................................................................................... 3 cr.
*Electives offered during this term ......................................................................................... 3 cr.

YEAR II – First Semester
†ACG 2021 Introduction to Financial Accounting ................................................................................. 3 cr.
†BUL 2241 Business Law I ........................................................................................................................... 3 cr.
†MAR 2011 Principles of Marketing ............................................................................................................ 3 cr.
*Electives offered during this term ......................................................................................... 3 cr.

YEAR II – Second Semester
†ACG 2071 Managerial Accounting ............................................................................................................ 3 cr.
†ECO 2023 Principles of Microeconomics ................................................................................................. 3 cr.
*Electives offered during this term ......................................................................................... 6 cr.

*Select 15 credit hours from the following:
BRC 1301 Introduction to Financial Institutions ................................................................................................. 3 cr.
†BUL 2242 Business Law II ........................................................................................................................... 3 cr.
†ENT 1000 Introduction to Entrepreneurship ................................................................................................. 3 cr.
†FIN 1100 Personal Finance ........................................................................................................................... 3 cr.
†FIN 2001 Principles of Finance ........................................................................................................................ 3 cr.
GEB 1949 Business Internship ......................................................................................................................... 3 cr.
†GEB 2350 Introduction to International Business Essentials ........................................................................ 3 cr.
MAN 2604 Intercultural Relations in Business ................................................................................................. 3 cr.
†SBM 2000 Small Business Management ......................................................................................................... 3 cr.

*Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Business Administration - Entrepreneurship
AS.BUS.ENT (60 Credit Hours)

This degree helps students to cultivate critical skills that are required for starting a business and by today’s employers. These include problem solving, creativity, critical thinking, communication, and collaboration. Students in this program work on developing a new business idea or advancing an existing business.

Program Required Courses
YEAR I – First Semester
†CGS 1000 Introduction to Computers and Technology ................................................................. 3 cr.
†ENC 1101 English Composition I .................................................................................................. 3 cr.
†GEB 1011 Introduction to Business ................................................................................................. 3 cr.
YEAR I – Second Semester
†ENT 1000 Introduction to Entrepreneurship .................................................................................. 3 cr.
ENT 1612 Creativity, Innovation, and Human Centered Design ...................................................... 3 cr.
†GEB 2214 Business Communications and Technology ................................................................. 3 cr.
†MAC 2233C Calculus for Business and Social Science ................................................................. 3 cr.
†MAR 2011 Principles of Marketing ................................................................................................ 3 cr.
YEAR I – Third Semester
†ECO 2013 Principles of Macroeconomics ...................................................................................... 3 cr.
†MAN 2021 Principles of Management ............................................................................................ 3 cr.
†STA 2023 Elementary Statistics .................................................................................................... 3 cr.
YEAR II – First Semester
†ACG 2021 Introduction to Financial Accounting .......................................................................... 3 cr.
†BUL 2241 Business Law I ............................................................................................................. 3 cr.
ENT 1012 Entrepreneurship Management ....................................................................................... 3 cr.
ENT 1031 Entrepreneurial Marketing and Sales .............................................................................. 3 cr.
YEAR II – Second Semester
†ACG 2071 Managerial Accounting .................................................................................................. 3 cr.
†ENT 1411 Small Business Accounting and Finance ...................................................................... 3 cr.
†ECO 2023 Principles of Microeconomics ....................................................................................... 3 cr.
†SBM 2000 Small Business Management ....................................................................................... 3 cr.
*Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Business Administration – International Business Management
AS.BUS.MAN.INT (60 Credit Hours)
Program Required Courses
YEAR I – First Semester
†ACG 2021 Introduction to Financial Accounting .......................................................................... 3 cr.
†ENC 1101 English Composition I .................................................................................................. 3 cr.
†GEB 1011 Introduction to Business ................................................................................................. 3 cr.
YEAR I – Second Semester
ACG 2071 Managerial Accounting .................................................................................................. 3 cr.
CGS 1000 Introduction to Computers and Technology .................................................................... 3 cr.
†MAR 2011 Principles of Marketing ................................................................................................ 3 cr.
STA 2023 Elementary Statistics .................................................................................................... 3 cr.
YEAR I – Third Semester
†ANT 2000 Introduction to Anthropology ....................................................................................... 3 cr.
MAC 2233C Calculus for Business .................................................................................................. 3 cr.
Humanities General Education Elective* .................................................................................... 3 cr.
YEAR II – First Semester
ECO 2023 Principles of Microeconomics ....................................................................................... 3 cr.
†FIN 2001 Principles of Finance ...................................................................................................... 3 cr.
†GEB 2350 Introduction to International Business Essentials ....................................................... 3 cr.
†MAN 2021 Principles of Management ............................................................................................ 3 cr.
MAR 2150 International Marketing .................................................................................................. 3 cr.
YEAR II – Second Semester
†ECO 2013 Principles of Macroeconomics ...................................................................................... 3 cr.
FIN 2051 International Financial Management .............................................................................. 3 cr.
GEB 2370 Introduction to International Business Policy Issues ............................................................... 3 cr.
MAN 2604 Intercultural Relations in Business ......................................................................................... 3 cr.

*Select 3 credit hours from the following Humanities general education:
†HUM 2210 World Humanities: Prehistoric to Early Modern Era ........................................................... 3 cr.
†HUM 2230 World Humanities: Early Modern to Contemporary ........................................................... 3 cr.
HUM 2410 Asian Humanities ................................................................................................................... 3 cr.
HUM 2420 African Humanities ................................................................................................................ 3 cr.
HUM 2461 Latin American Humanities .................................................................................................... 3 cr.
PHI 1600 Ethics ....................................................................................................................................... 3 cr.
†REL 2300 Introduction to Religion ........................................................................................................... 3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Business Intelligence Specialist

AS.BIS (60 Credit Hours)

Program Required Courses

YEAR I – First Semester
†CGS 1000 Introduction to Computers and Technology .............................................................................. 3 cr.
†MAC 1105 College Algebra ........................................................................................................................ 3 cr.
†CGS 2301 Management Information Systems ......................................................................................... 3 cr.
*Specified Electives ..................................................................................................................................... 3 cr.

YEAR I – Second Semester
†ENC 1101 English Comp I .......................................................................................................................... 3 cr.
STA 2303 Elementary Statistics .................................................................................................................. 3 cr.
COP 1000 Programming Logic ................................................................................................................... 3 cr.
*Specified Electives ..................................................................................................................................... 3 cr.

YEAR I – Third Semester
†PHI 1600 Ethics .......................................................................................................................................... 3 cr.
†CGS 2541 Database Design ........................................................................................................................ 3 cr.
†GEB 1011 Introduction to Business ........................................................................................................... 3 cr.

YEAR II – First Semester
†PSY 2012 General Psychology ................................................................................................................... 3 cr.
COP 1030 Introduction to Python Programming ....................................................................................... 3 cr.
†CTS 2440 Database Programming SQL .................................................................................................... 3 cr.
*Specified Electives ..................................................................................................................................... 3 cr.

YEAR II – Second Semester
COP 2050 R-Programming ........................................................................................................................ 3 cr.
ISM 2110 Business Intelligence I ............................................................................................................... 3 cr.
†EVR 1001C Introduction to Environmental Science or PHY 1020C, Conceptual Physics ..................... 3 cr.

YEAR II – Third Semester
ISM 2111 Business Intelligence II ............................................................................................................. 3 cr.
†SPC 1608 Public Speaking ........................................................................................................................ 3 cr.

*Select at least 9 credit hours from any courses with prefix: CGS, CIS, COP, MAC, MAN, MAR, PSY, SOP, SYG

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Computer Engineering Technology

AS.CET.UNIV (68 Credit Hours)

This program will prepare students for employment in an entry-level position as a computer technician. The course work focuses on the diagnosis and repair of hardware and software in micro, mini and mainframe computers. With minimal additional specialized training, students may become a field or in-house shop technician.

Program Required Courses

YEAR I – First Semester
CET 1112C Basic Digital Systems ................................................................. 3 cr.
EET 1036C Basic AC and DC ................................................................. 3 cr.
EET 1083C Electronics Orientation .................................................. 3 cr.
†MAC 1105 College Algebra ................................................................. 3 cr.

**YEAR I – Second Semester**

CET 1123C Introduction to Microprocessors/Microcontrollers ........ 3 cr.
CET 2113C Digital Systems Analysis ............................................... 3 cr.
EET 1037C Circuit Analysis ................................................................. 3 cr.
EET 1141C Solid State Devices ................................................................. 3 cr.
†MAC 1147 Pre-Calculus Algebra and Technology ............................... 5 cr.

**YEAR I – Third Semester**

†ENC 1101 English Composition I ......................................................... 3 cr.
†SPC 1608 Public Speaking ................................................................. 3 cr.
Natural Science General Education ...................................................... 3 cr.

**YEAR II – First Semester**

CET 2152C Advanced Microprocessors .................................................. 3 cr.
EET 1142C Solid State Circuits ................................................................. 3 cr.
TAR 2053 Introduction to Computer Aided Design and Drafting ....... 3 cr.

**YEAR II – Second Semester**

CET 2939 Computer Engineering Technology Capstone ................. 3 cr.
EET 2155C Linear Integrated Circuits .................................................. 3 cr.
†ENC 1102 English Composition II ......................................................... 3 cr.
Social Science General Education ....................................................... 3 cr.

**YEAR II – Third Semester**

CET 2335C Total Microcomputer Systems ............................................ 3 cr.
EET 2326C Communications Systems .................................................. 3 cr.
†PHI 1600 Ethics .................................................................................... 3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

**AS • Computer Information Technology**

**AS.CIA (60 Credit Hours)**

This program prepares students for jobs in the field of PC support specialist, help desk specialist, software specialist, and information systems specialist.

**Program Required Courses**

**YEAR I – First Semester**

†CGS 1000 Introduction to Computers .................................................. 3 cr.
†ENC 1101 English Composition I ......................................................... 3 cr.
Humanities General Education ....................................................... 3 cr.
Social Science General Education ....................................................... 3 cr.
Mathematics General Education ........................................................... 3 cr.

**YEAR I – Second Semester**

CET 1172C PC Upgrading and Repair: Hardware ................................ 3 cr.
CET 1174C PC Upgrading and Repair: Software ................................ 3 cr.
†CGS 2301 Management Information Systems ........................................ 3 cr.
CTS 1303 MS Beginning Server I ......................................................... 3 cr.
†CTS 1305 Introduction to Networking .................................................. 3 cr.

**YEAR I – Third Semester**

†CGS 2541 Database Design ................................................................. 3 cr.
**†CTS 1306 MS Beginning Server II ......................................................... 3 cr.

**YEAR II – First Semester**

†CGS 1103 Project Management ............................................................. 3 cr.
*†CIS 2321 Systems Analysis ................................................................. 3 cr.
†CNT 1401 Introduction to Network Security ........................................... 3 cr.
†CGS 1577 Presentation Systems ......................................................... 3 cr.
†CGS 1761 Computer Operating Systems ........................................... 3 cr.
†CGS 2108 Advanced Computer Applications .................................... 3 cr.
†CIS 2905 Special Topics in Computer Information ........................... 3 cr.
†CIS 2932-36 Special Topics in Computer Information ....................... 3 cr.
COP 1000 Programming Logic ....................................................... 3 cr.
CTS 1106 Introduction to Unix ......................................................... 3 cr.

**Select at least 3 credit hours from the following:
†CGS 1577 Presentation Systems ......................................................... 3 cr.
†CGS 1761 Computer Operating Systems ........................................... 3 cr.
†CGS 2108 Advanced Computer Applications .................................... 3 cr.
†CIS 2905 Special Topics in Computer Information ........................... 3 cr.
†CIS 2932-36 Special Topics in Computer Information ....................... 3 cr.
COP 1000 Programming Logic ....................................................... 3 cr.
CTS 1106 Introduction to Unix ......................................................... 3 cr.

*Permission of instructor required for concurrent enrollment with prerequisite.
** May require additional coursework.
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Computer Programming and Analysis

AS.COP (60 Credit Hours)

This program prepares students for jobs in the field of computer programmer, junior programmer, senior programmer, data manager, programmer analyst, and mid-range computer specialist.

Program Required Courses

YEAR I – First Semester
†CGS 1000 Introduction to Computers ............................................. 3 cr.
†ENC 1101 English Composition I ................................................. 3 cr.
Social Science General Education ................................................. 3 cr.
Mathematics General Education ................................................... 3 cr.

YEAR I – Second Semester
†CGS 1761 Computer Operating Systems ........................................... 3 cr.
†CGS 2301 Management Information Systems ................................. 3 cr.
COP 1000 Programming Logic ....................................................... 3 cr.
†CTS 1305 Introduction to Networking ............................................. 3 cr.
†ENC 1102 English Composition II or Social Science General Education ........................................................................... 3 cr.

YEAR II – First Semester
†CGS 2541 Database Design ........................................................... 3 cr.
†COP 1220 Programming in C ....................................................... 3 cr.
COP 2800 Java Programming ....................................................... 3 cr.
OST 1335 Business Communications ............................................ 3 cr.
*Specified Elective ................................................................. 3 cr.

YEAR II – Second Semester
†CIS 2321 Systems Analysis ............................................................. 3 cr.
COP 2360 Programming in C# ....................................................... 3 cr.
COP 2805 Java Advanced ............................................................ 3 cr.
COP 2939 Computer Programming Capstone ................................. 3 cr.
*Specified Elective ................................................................. 3 cr.

*Select at least 6 elective credit hours from the following:
COP 1030 Introduction to Python Programming ................................ 3 cr.
†COP 1120 COBOL, Beginning .................................................... 3 cr.
COP 1332 Visual BASIC, Beginning ............................................. 3 cr.
COP 1812 Introduction to XML Authoring ..................................... 3 cr.
COP 2224 Programming in C++ .................................................. 3 cr.
COP 2654 Mobile Platform Application Development ................................................................. 3 cr.
COP 2833 Database-driven Web Programming: Client ................................................................. 3 cr.
COP 2836 Database-driven Web Programming: Server ............................................................... 3 cr.
COP 2930-35 Special Topics in Programming .............................................................................. 3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
AS • Criminology and Criminal Justice Studies

AS.CJT (60 Credit Hours)

The Criminal Justice associate in science degree program (AS to BS) offers students a broad background in the history, philosophy, organization, management and operation of the criminal justice system. Upon completion, this AS degree opens up entry-level, non-sworn positions in local, state, and federal agencies, i.e. juvenile justice, private security, law enforcement, corrections, probation and parole, detention centers and community-based intervention programs. It can also be the first step toward a career in law.

The AS degree will transfer into similar upper division programs in certain Florida universities and colleges, but students wishing to transfer must accept the responsibility for securing approval in advance from the transfer institution.

For students interested in a two-year degree in criminal justice, this program will prepare them to work in law enforcement agencies such as police departments, sheriff’s offices, correctional institutions, criminal and juvenile courts, crime laboratories or crime scene units dealing with physical evidence and will also help them develop the educational skills needed to advance into and within various law enforcement related fields such as police work and corrections and law.

For more information, refer to the HCC Catalog or https://www.hccfl.edu/academics/subjects/law-criminal-justice-security/criminology-and-criminal-justice-studies

Program Required Courses

YEAR I – First Semester
†ENC 1101 English Composition I ................................................................. 3 cr.
†CCJ 1010 Introduction to Criminology or CCJ 1010H, Honors Introduction to Criminology ......................................................... 3 cr.
†CCJ 1020 Introduction to Criminal Justice ................................................ 3 cr.
CGS 1000 Introduction to Computers and Technology .................................... 3 cr.

YEAR I – Second Semester
†CJE 1000 Introduction to Law Enforcement .................................................. 3 cr.
CJE 2004 Career Choices in Criminal Justice .................................................. 3 cr.
†CJJ 1002 Juvenile Delinquency ........................................................................ 3 cr.
†POS 2041 American Government ................................................................. 3 cr.

YEAR I – Third Semester
†PSY 2012 General Psychology or SYG 2000, Introduction to Sociology ................................................................. 3 cr.
*Criminal Justice Electives ............................................................................. 3 cr.

YEAR II – First Semester
†CJL 1100 Criminal Law .................................................................................. 3 cr.
Humansities General Education ........................................................................... 3 cr.
*Criminal Justice Electives ............................................................................. 3 cr.

Select 3 credit hours from the following:
†CJL 1062 Constitutional Law ............................................................................ 3 cr.
†CCJ 1488 Ethics in Criminal Justice ............................................................... 3 cr.
†CCJ 2013 Introduction to Victimology ............................................................ 3 cr.

YEAR II – Second Semester
†CJE 2600 Criminal Investigation ...................................................................... 3 cr.
CJL 2130 Criminal Evidence and Procedure ................................................... 3 cr.
Mathematics General Education ........................................................................ 3 cr.
%Criminal Justice Elective ............................................................................. 3 cr.

YEAR II – Third Semester
*Criminal Justice Elective ............................................................................. 6 cr.

*Select 15 credit hours from the following criminal justice courses:
†CCJ 2111 Introduction to Theories of Criminal Behavior .................................. 3 cr.
†CCJ 2191 Crisis Intervention in Criminal Justice ............................................. 3 cr.
†CCJ 2358 Criminal Justice Communication and Reports ................................ 3 cr.
†CCJ 2509 Introduction to Gangs ....................................................................... 3 cr.
†CCJ 2600 Criminal Deviant Behavior in Society ............................................. 3 cr.
†CCJ 2610 Introduction to Criminal Typologies ................................................ 3 cr.
†CCJ 2618 Forensic Psychology ........................................................................ 3 cr.
†CCJ 2648 Organized Crime ............................................................................ 3 cr.
†CCJ 2671 Race, Gender, and Ethnicity in Criminal Justice ........................ 3 cr.
†CCJ 2685 Domestic and Sexual Violence................................................................. 3 cr.
CCJ 2686 Introduction to Victim Advocacy......................................................... 3 cr.
†CCJ 2720 Introduction to Criminal Justice Research Methods......................... 3 cr.
†CCJ 2910 Guided Independent Research........................................................... 3 cr.
CCJ 2955-9 Seminar on Criminal Justice Issues................................................ 3 cr.
CCJ 2940 Criminal Justice Internship................................................................. 3 cr.
CJC 1000 Introduction to Corrections................................................................. 3 cr.
CJC 2162 Probation and Parole ............................................................................ 3 cr.
CJE 1640 Introduction to Criminalistics............................................................. 3 cr.
CJE 1642C Introduction to Crime Scene Technology ............................................. 3 cr.
CJE 1643C Advanced Crime Scene Technology ................................................ 3 cr.
†CJE 1653 Introduction to Crime Analysis and Intelligence ................................. 3 cr.
†CJE 1680 Introduction to Computer Crimes ..................................................... 3 cr.
†CJE 2233 Drug Abuse and Crime ...................................................................... 3 cr.
CJE 2300 Police Administration and Organization ............................................. 3 cr.
CJE 2509 Introduction to Federal Law Enforcement and Investigations ............ 3 cr.
CJE 2614 Serial Killers ....................................................................................... 3 cr.
CJE 2664 Advanced Crime and Intelligence Analysis ........................................ 3 cr.
CJE 2704 Introduction to Child Protective Investigations .................................... 3 cr.
†CJ 1004 Introduction to Juvenile Justice ............................................................ 3 cr.
†CJL 1000 Introduction to Law and Legal Issues ............................................... 3 cr.
CJL 1070 Legal Rights of Prisoners ................................................................. 3 cr.
CJL 1500 Introduction to the Court System ....................................................... 3 cr.
†CJL 2072 Civil Rights and Liability in Criminal Justice ........................................ 3 cr.
†CJL 2610 Courtroom Presentation of Scientific Evidence .................................... 3 cr.
†DSC 1002 Introduction to Terrorism ............................................................... 3 cr.
†DSC 1003 Introduction to Homeland Security ................................................. 3 cr.
†DSC 2033 Introduction to Terrorist Tactics and Weapons ................................. 3 cr.
†DSC 2242 Transportation and Border Security ............................................... 3 cr.
†DSC 2570 Introduction to Cyber-Terrorism ..................................................... 3 cr.
†DSC 2590 Intelligence Analysis and Security Management ............................ 3 cr.
DSC 2932-4 Seminar in Homeland Security and Terrorism ............................. 3 cr.
SCC 1000 Introduction to Security ..................................................................... 3 cr.
SCC 1001 Introduction to Private Investigation .................................................. 3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
*May be taken if not previously chosen from the “Select 3 credit hours from the following” category.

NOTE 2: Regardless of degree work completed, in order to be a sworn law enforcement, corrections, or probation officer in the State of Florida, candidates must successfully complete a state mandated training academy such as those offered by Hillsborough Community College’s Criminal Justice Institute.

NOTE 3: Students who have successfully completed a Florida police or correction academy will be eligible for the articulated credit shown below toward the AS degree. Refer to the Criminal Justice Technology website at https://www.hccf.edu/academics/subjects/law-criminal-justice-security/criminology-and-criminal-justice-studies for specific details.

CJC 2940 Criminal Justice Practicum-Basic Corrections Academy ..................... 9 cr.
CJE 2940 Criminal Justice Practicum-Basic Police Academy ............................ 12 cr.

AS • Culinary Management

AS.CUL.CULA (60 Credit Hours)

This program will provide students with the skills necessary for employment as a restaurant cook or chef. The Culinary Management program and courses are accredited by the American Culinary Federation Foundation’s Accrediting Commission at 180 Center Place Way, St. Augustine, Florida 32095.

NOTE: Beginning Fall term 2008, all graduates of this program are eligible to articulate the AS degree in Culinary Management to the BS degree in Hotel and Restaurant Management at the University of Houston, Conrad N. Hilton College of Hotel and Restaurant Management.

Program Required Courses
YEAR I – First Semester
‡ENC 1101 English Composition I ................................................................. 3 cr.
FSS 1223C Food Preparation for Managers .................................................. 4 cr.
FSS 2100 Menu Development and Marketing ................................................ 3 cr.
FOS 1201 Safety and Sanitation ..................................................................... 2 cr.
Mathematics General Education .................................................................. 3 cr.

YEAR I – Second Semester
‡CGS 1107 Introduction to Computers ............................................................. 1 cr.
FSS 1063C Food Specialty I (Baking) ............................................................ 3 cr.
FSS 1500 Food and Beverage Control ............................................................ 3 cr.
FSS 1941 Food Practicum I ........................................................................... 2 cr.
HFT 2840 Maitre D’ and Dining Room .......................................................... 3 cr.

YEAR I – Third Semester
FSS 1942 Food Practicum II .......................................................................... 2 cr.
FSS 1943 Food Practicum III ......................................................................... 2 cr.

YEAR II – First Semester
‡HFT 1000 Introduction to Hospitality Industry Management ....................... 3 cr.
HFT 2210 Supervisory Development ............................................................... 3 cr.
HFT 2600 Hospitality Law .............................................................................. 3 cr.
HUN 2203 Culinary Nutrition ....................................................................... 3 cr.

YEAR II – Second Semester
FSS 1944 Food Practicum IV ........................................................................ 2 cr.
FSS 1248C Food Specialties II (Garde Manger I) .......................................... 3 cr.
FSS 2120 Food Purchasing and Storing .......................................................... 3 cr.

YEAR II – Third Semester
‡PSY 2012 General Psychology .................................................................... 3 cr.
Humanities General Education ..................................................................... 3 cr.
Natural Science General Education ............................................................... 3 cr.

‡Courses symbolized by a dagger (‡) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Cybersecurity
AS.CYBER.SEC (60 Credits)
This program prepares students for jobs in the fields of computer systems analyst, computer network specialist, computer support specialist or network systems engineer.

Program Required Courses
YEAR I – First Semester
‡CGS 1000 Introduction to Computers and Technology ................................. 3 cr.
‡ENC 1101 English Composition I ................................................................. 3 cr.
Mathematics General Education ................................................................. 3 cr.
Social Science General Education ............................................................... 3 cr.

YEAR I – Second Semester
COP 1000 Programming Logic ...................................................................... 3 cr.
CGS 2820 Web Authoring HTML ................................................................. 3 cr.
CTS 1305 Introduction to Networking ............................................................. 3 cr.
‡ENC 1102 English Composition II or Social Science General Education .... 3 cr.

YEAR I – Third Semester
COP 2830 Scripting for the Web .................................................................... 3 cr.
‡CNT 1401 Introduction to Network Security .................................................. 3 cr.

YEAR II – First Semester
CET 1600 Cisco Network Fundamentals ....................................................... 3 cr.
CIS 2359C Information Assurance Network Systems .................................. 3 cr.
<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COP</td>
<td>Database-driven Web Programming: Server</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>CTS</td>
<td>Introduction to Unix</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>
YEAR II – Second Semester
CET 1610 Cisco Switching, Routing, and Wireless Essentials .............................................................. 3 cr.
CIS 2352C Information Assurance Local Systems ................................................................................... 3 cr.
CIS 2353 Security Management and Penetration Testing .................................................................... 3 cr.
Humanities General Education ............................................................................................................. 3 cr.

YEAR II – Third Semester
†CGS 2091 Information Technology: Ethical and Legal Issues............................................................... 3 cr.
CIS 2598 Cybersecurity Capstone ........................................................................................................... 3 cr.

AS • Cybersecurity Operations
AS.CYBER.OPR (60 Credits)
Program Required Courses
YEAR I – First Semester
†CGS 1000 Introduction to Computers and Technology ........................................................................ 3 cr.
†ENC 1101 English Composition I ......................................................................................................... 3 cr.
Mathematics General Education ......................................................................................................... 3 cr.
Social Science General Education ...................................................................................................... 3 cr.
YEAR I – Second Semester
COP 1000 Programming Logic ................................................................................................................. 3 cr.
CTS 1106 Introduction to Unix .................................................................................................................. 3 cr.
CTS 1305 Introduction to Networking .................................................................................................... 3 cr.
†ENC 1102 English Composition II or Social Science General Education ........................................ 3 cr.
YEAR I – Third Semester
CET 1600 Cisco Network Fundamentals .................................................................................................. 3 cr.
†CNT 1401 Introduction to Network Security .......................................................................................... 3 cr.
YEAR II – First Semester
CGS 2820 Web Authoring HTML ............................................................................................................. 3 cr.
CET 1610 Cisco Switching, Routing, and Wireless Essentials .............................................................. 3 cr.
CIS 2381C Computer Forensics and Incident Response .................................................................... 3 cr.
CIS 2772 Cybersecurity Operations Fundamentals .............................................................................. 3 cr.
YEAR II – Second Semester
COP 2344 Shell Scripting .......................................................................................................................... 3 cr.
CTS 1303 MS Beginning Server I ............................................................................................................ 3 cr.
CIS 2621 Cybersecurity Operations Implementations ........................................................................... 3 cr.
Humanities General Education ............................................................................................................. 3 cr.
YEAR II – Third Semester
†CGS 2091 Information Technology: Ethical and Legal Issues............................................................... 3 cr.
CIS 2598 Cybersecurity Capstone ........................................................................................................... 3 cr.

AS • Database Technology
AS.DB.TECH (60 credit hours)
The Database Technology program provides students with a general approach to database design, programming and administration.

Program Required Courses
YEAR I – First Semester
†CGS 1000 Introduction to Computers and Technology ........................................................................ 3 cr.
†ENC 1101 English Composition I ......................................................................................................... 3 cr.
Mathematics General Education ......................................................................................................... 3 cr.
Humanities General Education ............................................................................................................. 3 cr.
YEAR I – Second Semester
†CGS 1103 Project Management ............................................................................................................. 3 cr.
†CGS 2541 Database Design .................................................................................................................... 3 cr.
COP 1000 Programming Logic ................................................................. 3 cr.
†CTS 1305 Introduction to Networking .................................................... 3 cr.
†ENC 1102 English Composition II or Social Science General Education ...................... 3 cr.

YEAR I – Third Semester
†CNT 1401 Introduction to Network Security ........................................ 3 cr.
Social Science General Education ......................................................... 3 cr.

YEAR II – First Semester
†CGS 2301 Management Information Systems ..................................... 3 cr.
†CTS 2440 Database Programming SQL ................................................. 3 cr.
†CTS 2441 Database Administration I ..................................................... 3 cr.
ANY course with prefix CEN, CET, CGS, CIS, COP, CNT, or CTS offered during this term .................................................... 6 cr.

YEAR II – Second Semester
†CIS 2321 Systems Analysis .................................................................. 3 cr.
CTS 2442 Database Administration II .................................................... 3 cr.
CTS 2445 Database Programming Advanced ....................................... 3 cr.
CTS 2939 Database Technology Capstone ............................................ 3 cr.
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Digital Media/Multimedia Technology

AS.MMT (60 Credit Hours)

This program prepares students for jobs such as desktop publisher, production designer, electronic publisher, illustrator, multimedia specialist, multimedia presentation developer, interface designer, computer graphic designer, and project manager.

Game Design and Development

AS.MMT.GAME

Program Required Courses

YEAR I – First Semester
†CGS 1000 Introduction to Computers and Technology ....................... 3 cr.
†ENC 1101 English Composition I ......................................................... 3 cr.
Mathematics General Education ......................................................... 3 cr.
Social Science General Education ......................................................... 3 cr.

YEAR I – Second Semester
†CAP 1023 Introduction to Game Development ................................... 3 cr.
†CGS 1871 Multimedia Authoring I ....................................................... 3 cr.
†CGS 2821 Graphics Design for Multimedia and Internet ..................... 3 cr.
†ENC 1102 English Composition II or Social Science ......................... 3 cr.

YEAR I – Third Semester
*Specified electives offered during this term ......................................... 9 cr.

YEAR II – First Semester
†CAP 2042 Game Design and Development - Modeling ....................... 3 cr.
†CAP 2043 Game Design and Development - Rigging .......................... 3 cr.
CGS 2876 Digital Audio/Video Design .................................................. 3 cr.
Humanities General Education .............................................................. 3 cr.

YEAR II – Second Semester
CAP 2041 Game Design and Development – Animation ...................... 3 cr.
CAP 2044 Game Design and Development – Special Effects ................. 3 cr.
†CGS 2827 Advanced Graphics Design for Multimedia and Internet ........ 3 cr.
CGS 2874 Multimedia Authoring II ...................................................... 3 cr.

YEAR II – Third Semester
CAP 2939 Digital Media/Multimedia Technology Capstone ...................... 3 cr.

*Select at least 9 specified elective credits from the following:
AS • Multimedia Developer

AS.MMT

Program Required Courses

YEAR I – First Semester

†CGS 1000 Introduction to Computers and Technology ............................................................... 3 cr.
†ENC 1101 English Composition I .......................................................................................... 3 cr.
Mathematics General Education ...................................................................................... 3 cr.
Social Science General Education .................................................................................... 3 cr.

YEAR I – Second Semester

†CGS 1577 Presentation Systems .............................................................................................. 3 cr.
†CGS 1871 Multimedia Authoring I ......................................................................................... 3 cr.
†CGS 2820 Web Authoring HTML ........................................................................................ 3 cr.
COP 1000 Programming Logic ........................................................................................... 3 cr.

YEAR I – Third Semester

†CGS 2585 Desktop Internet Publishing .................................................................................. 3 cr.
†CGS 2804 Vector Graphic Application ................................................................................... 3 cr.
COP 2830 Scripting for the Web .......................................................................................... 3 cr.

YEAR II – First Semester

†CGS 2821 Graphics Design for Multimedia and Internet ....................................................... 3 cr.
CGS 2876 Digital Audio/Video Design ................................................................................ 3 cr.
*Humanities General Education ......................................................................................... 3 cr.
*Specified elective offered during this term ........................................................................ 3 cr.

YEAR II – Second Semester

CAP 2939 Digital Media/Multimedia Technology Capstone ................................................... 3 cr.
CGS 2827 Advanced Graphics Design for Multimedia and Internet ...................................... 3 cr.
CGS 2874 Multimedia Authoring II ..................................................................................... 3 cr.
CGS 2877 Digital Animation Design ................................................................................... 3 cr.

YEAR II – Third Semester

†ENC 1102 English Composition II or Social Science .......................................................... 3 cr.

*Select at least 3 specified elective credits from the following:
ANY courses with prefix: CAP, CEN, CET, CGS, CIS, COP, CNT or CTS offered in a specified term and
not previously taken ........................................................................................................... 3 cr.
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Digital Television and Media Production

AS.DIG.RTV (60 Credit Hours)

This hands-on, skills-based program will prepare students for careers in television, radio, and media production for the Internet. Students will learn to produce music videos, talk shows, sports programs, music shows, concerts, and news shows for television, radio and the Internet using professional video cameras, high-quality nonlinear video editing equipment, and professional audio editing software. Students can gain valuable experience by broadcasting on the college’s radio station and the educational TV cable channel.

Program Required Courses

YEAR I – First Semester
AS • Early Childhood Education

AS… (60 Credit Hours)

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†EDF 1005</td>
<td>Introduction to the Teaching Profession</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EEC 1300</td>
<td>Planning the Early Childhood Program</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 2085</td>
<td>Introduction to Diversity for Educators</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†EEC 1401</td>
<td>The Family and Early Childhood Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EEC 1521</td>
<td>Operation of Early Childhood Center Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†PSY 2012</td>
<td>General Psychology or †SYG 2000, Introduction to Sociology</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Third Semester

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DEP 2102</td>
<td>Child Development</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EEC 2732</td>
<td>Health, Safety and Nutrition for Young Children</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*EME 2040</td>
<td>Introduction for Technology for Educators or CGS 1000, Introduction to Computers and Technology</td>
<td>3 cr.</td>
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</table>

YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†PSY 2012</td>
<td>General Psychology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2512</td>
<td>Advanced Television Studio Production</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2942</td>
<td>Radio and TV Internship II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*Program Specified Elective</td>
<td></td>
<td>3 cr.</td>
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YEAR II – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTV 2512</td>
<td>Advanced Television Studio Production</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2560</td>
<td>Radio Production and Programming</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2532</td>
<td>Advanced Electronic Field Production</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2510</td>
<td>Broadcasting Techniques</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1102</td>
<td>English Composition II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MGF 1106</td>
<td>Topics in Mathematics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 1530</td>
<td>Electronic Field Production</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR II – Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTV 2560</td>
<td>Radio Production and Programming</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2942</td>
<td>Radio and TV Internship II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*Program Specified Elective</td>
<td></td>
<td>3 cr.</td>
</tr>
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</table>

*Select 12 specified elective credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS 1871</td>
<td>Multimedia Authoring I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS 2821</td>
<td>Graphics Design for Multimedia and Internet</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2876</td>
<td>Digital Audio/Visual Design</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FIL 1000</td>
<td>Introduction to Film</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FIL 1420C</td>
<td>Motion Media I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FIL 2010</td>
<td>Films of Fantasy</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FIL 2905</td>
<td>Directed Independent Study: Film</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2944</td>
<td>Internship III</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
**Humanities General Education** ............................................................................................... 3 cr.

**YEAR II – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC 1601</td>
<td>Observing and Recording Children Behavior</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EEC 2271</td>
<td>Children with Special Needs</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences General Education</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC 1941</td>
<td>Child Care Practicum I</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Mathematics General Education</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – Third Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC 1943</td>
<td>Child Care Practicum II</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**Specified Electives by Specialization offered during this term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC 1603</td>
<td>Child Guidance</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EEC 1721</td>
<td>Physical Development in the Early Childhood Setting</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EEC 2270</td>
<td>Meeting Special Needs of Children in Groups</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**Specified Electives for Preschool Specialization**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC 1603</td>
<td>Child Guidance</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EEC 1721</td>
<td>Physical Development in the Early Childhood Setting</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EEC 2270</td>
<td>Meeting Special Needs of Children in Groups</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**Specified Electives for Administrator Specialization**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC 1603</td>
<td>Child Guidance or CGS 1000, Introduction to Computers and Technology if you are Completing EME 2040</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EEC 2527</td>
<td>Legal and Financial Issues in Child Care</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ENT 1000</td>
<td>Introduction to Entrepreneurship</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

*EME 2040 is a pre-requisite for entry into the Bachelor of Science program in Early Childhood Education within the State of Florida. Students who intend to transfer to a University program should complete EME 2040.

## AS • Electronics Engineering Technology

**AS.EET.UNIV (68 Credit Hours)**

This program will prepare a student for an entry-level position as an electronics engineering technician. Technicians assist engineers in planning, research, development and design.

The course work focuses on the skills needed for troubleshooting electronic equipment, performing operations, calculations, testing and reporting.

**NOTE:** Beginning Fall Term 2000, all graduates of this program shall articulate into an Electronics Engineering Technology baccalaureate degree in the designated university program under the provision of Rule 6A-10.024, Articulation Between Universities, Community Colleges, and School Districts.

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 1112C</td>
<td>Basic Digital Systems</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EET 1036C</td>
<td>Basic AC and DC</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EET 1083C</td>
<td>Electronics Orientation</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR I – Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 1123C</td>
<td>Introduction to Microprocessors/Microcontrollers</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CET 2113C</td>
<td>Digital Systems Analysis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EET 1037C</td>
<td>Circuit Analysis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EET 1141C</td>
<td>Solid State Devices</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105</td>
<td>College Algebra</td>
<td>3 cr.</td>
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</tbody>
</table>

**YEAR I – Third Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ENC 1102</td>
<td>English Composition II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†PHI 1600</td>
<td>Ethics</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Natural Science General Education</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – First Semester**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 1142C</td>
<td>Solid State Circuits</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ETS 1603C</td>
<td>Fundamentals of Robotics and Simulation</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ETS 2210C</td>
<td>Introduction to Photonics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1147</td>
<td>Pre-Calculus Algebra and Trigonometry</td>
<td>5 cr.</td>
</tr>
</tbody>
</table>
AS • Engineering Technology

Engineering Technology is a comprehensive program covering introductory computer-aided drafting, electronics, instrumentation and testing, processes and materials, quality and safety. These skills align with the national Manufacturing Skill Standards Council (MSSC) Portable Production Technician certification. The engineering technology curriculum which emphasizes advanced manufacturing, prepares students for many high skill/high wage/high demand jobs in manufacturing and other high-technology industries.

Program Required Courses

<table>
<thead>
<tr>
<th>YEAR I – First Semester</th>
<th>YEAR I – Second Semester</th>
<th>YEAR I – Third Semester</th>
<th>YEAR II – First Semester</th>
<th>YEAR II – Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ENC 1101 English Composition I</td>
<td>ETT 2155C Linear Integrated Circuits</td>
<td>Natural Science General Education</td>
<td>ETI 1420 Manufacturing Processes and Materials</td>
<td>EMT 2315 Hydraulic and Pneumatic Systems</td>
</tr>
<tr>
<td>ETT 1320C Computer Aided Drafting for Engineers</td>
<td>ETT 1622 Concepts of Lean and Six Sigma</td>
<td>Social Science General Education</td>
<td>ETT 1843 Motors and Controls</td>
<td>ETT 2315L Hydraulic and Pneumatic Laboratory</td>
</tr>
<tr>
<td>ETI 1810C Introduction to Electricity and Electronics</td>
<td>ETT 1701 Industrial Safety</td>
<td>*Specified Electives</td>
<td>ETT 1542 Introduction to Programmable Logic Controllers</td>
<td>ETT 2527 Electromechanical Components and Mechanisms</td>
</tr>
<tr>
<td>†MAC 1105 College Algebra</td>
<td>ETT 1010C Mechanical Measurement and Instrumentation</td>
<td>*Specified Electives</td>
<td>*Specified Electives</td>
<td>*Specified Electives</td>
</tr>
</tbody>
</table>

*Select 11 specified elective credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EGN 2122C</td>
<td>Geometric Dimensioning and Tolerancing</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ENC 2210</td>
<td>Technical Writing</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ETT 2364C</td>
<td>Introduction to 3D Computer Aided Design</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ETT 1340C</td>
<td>Intermediate CAD</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ETI 1644</td>
<td>Production and Inventory Control</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ETI 1802</td>
<td>Introduction to Process Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ETI 1931</td>
<td>Special Topics in Modern Manufacturing</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ETI 1949</td>
<td>Manufacturing Internship</td>
<td>2 cr.</td>
</tr>
</tbody>
</table>
ETI 2950  Engineering Technology Capstone................................................................. 3 cr.
ETS 1520  Process Measurement Fundamentals ......................................................... 3 cr.
ETS 1535  Automated Process Control ............................................................... 3 cr.
ETS 1539  Instrumentation Systems Safety ............................................................. 3 cr.
ETS 2604  Robotics Applications ........................................................................ 3 cr.
PMT 1250C  Computer Numerical Control (CNC) I .................................................. 3 cr.
PMT 2254C  Computer Numerical Control (CNC) II ............................................... 3 cr.
SLS 1106  First Year Experience Orientation ....................................................... 3 cr.
SPC 1608  Public Speaking ....................................................................................... 3 cr.
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Environmental Science Technology

AS.EVR.LAB/AS.EVR.ETEC (64 Credit Hours)

This program will prepare students for positions as environmental pollution control technicians or environmental technicians. The program curriculum will prepare students to conduct environmental surveys; conduct investigations and evaluations of noise, air, and water conditions for compliance with public laws and regulations; or to effectively manage natural resources.

AS • Environmental Technician

AS.EVR.ETEC

Program Required Courses

YEAR I – First Semester
†ENC 1101  English Composition I ............................................................................. 3 cr.
Environmental Program Core Requirements and
Specified Electives as available................................................................. 9-12 cr.

YEAR I – Second Semester
†CGS 1000  Introduction to Computers and Technology ........................................ 3 cr.
Humanities General Education ................................................................. 3 cr.
Environmental Program Core Requirements and
Specified Electives as available................................................................. 9-12 cr.

YEAR I – Third Semester
†BSC 1005  Biological Foundations ........................................................................ 3 cr.
†BSC 1005L Biological Foundations Laboratory .................................................. 1 cr.
CHM 1025  Introductory Chemistry ....................................................................... 3 cr.
CHM 1025L Introductory Chemistry Laboratory ............................................... 1 cr.
MAC 1105  College Algebra ..................................................................................... 3 cr.

YEAR II – First Semester
Environmental Program Core Requirements and
Specified Electives as available................................................................. 9-12 cr.
Social/Behavioral Science General Education ......................................... 3 cr.

YEAR II – Second Semester
EVS 2942L Environmental Technology Practicum ............................................. 3 cr.
Environmental Program Core Requirements and
Specified Electives as available................................................................. 9-12 cr.

Environmental Program Core Classes

EVR 2858  Environmental Law ................................................................................ 4 cr.
EVS 1001  Introduction to Environmental Sustainability .................................... 3 cr.
EVS 2891  Hydrology and Quality of Water Resources ....................................... 4 cr.
EVS 2894C Water Sampling and Analysis I ............................................................ 5 cr.
EVS 2895C Water Sampling and Analysis II ......................................................... 5 cr.
EVS 2893C Soil Sampling and Analysis ................................................................ 5 cr.
GIS 1041  Survey of GIS/GPS ............................................................................. 1 cr.

Select 11 specified elective credits from the following:

Water Emphasis
EVS 1026  Chemistry and Biology of Natural Waters .......................................... 4 cr.

Geographic Information Systems/Global Position Systems
Natural Resource Management

EVR 1041 Natural Resource Management w/Applications in GIS...................................................... 4 cr.
GIS 2040 Fundamentals of GIS ........................................................................................................ ... 3 cr.

AS • Laboratory Technician

AS.EVR.LAB

Program Required Courses

YEAR I – First Semester
†CGS 1000 Introduction to Computers and Technology ................................................................... 3 cr.
†ENC 1101 English Composition I ....................................................................................................... 3 cr.
EVS 2893C Soil Sampling and Analysis .................................................................................................. 5 cr.
Mathematics General Education ........................................................................................................... 3 cr.

YEAR I – Second Semester
†BSC 2010 Biological Science .............................................................................................................. 3 cr.
BSC 2010L Biological Science Laboratory ............................................................................................ 1 cr.
CHM 1025 Introductory Chemistry ........................................................................................................ 3 cr.
CHM 1025L Introductory Chemistry Laboratory .................................................................................... 1 cr.
†SPC 1006 Speech Improvement .......................................................................................................... 1 cr.
Specified Electives ................................................................................................................................. 4 cr.

YEAR I – Third Semester
CHM 2045 General Chemistry I ............................................................................................................. 3 cr.
CHM 2045L General Chemistry I Laboratory .......................................................................................... 1 cr.
Humanities General Education .............................................................................................................. 3 cr.
Social/Behavioral Science General Education .................................................................................... 3 cr.

YEAR II – First Semester
CHM 2046 General Chemistry II ............................................................................................................ 3 cr.
CHM 2046L General Chemistry II Laboratory ......................................................................................... 1 cr.
EVS 2894C Water Sampling and Analysis I ............................................................................................ 5 cr.
EVS 1026 Chemistry and Biology of Natural Waters ........................................................................... 4 cr.

YEAR II – Second Semester
CHM 2132C Modern Chemical Instrumentation .................................................................................. 4 cr.
EVS 2895C Water Sampling and Analysis II .......................................................................................... 5 cr.
EVS 2942L Environmental Technology Practicum ................................................................................... 3 cr.
Specified Electives ................................................................................................................................. 2 cr.

Select 6 specified elective credits from the following:
ETI 1701 Industrial Safety .................................................................................................................... 2 cr.
EVS 1893 Comparative Sampling and Analysis Methods ...................................................................... 3 cr.
MCB 1060 Food Microbiology ................................................................................................................ 3 cr.
MCB 1060L Food Microbiology Laboratory ........................................................................................... 1 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Fire Science Technology

AS.FIRE.UNIV (60 Credit Hours)

This program will prepare students for jobs as fire science technicians, fire officers or fire safety inspectors, fire assistants, safety inspectors, building inspectors or jobs in fire insurance sales.

Program Required Courses

YEAR I – First Semester
†ENC 1101 English Composition I ................................................................. 3 cr.
†FFP 1000 Introduction to Fire Science ........................................................... 3 cr.
†FFP 1506 Fire Prevention and Investigation .................................................. 3 cr.
†FOS 1201 Sanitation and Safety Management .................................................. 2 cr.
†FSS 1223C Food Preparation for Managers ...................................................... 4 cr.
†FSS 2100 Menu Development and Marketing ............................................... 3 cr.
†FFP 1304 Aerial Operations .......................................................................... 3 cr.
†FFP 1810 Fire Fighting Tactics and Strategy I .................................................. 3 cr.
†FFP 2604 Cause and Origin .......................................................................... 3 cr.
†SYG 2000 Introduction to Sociology ............................................................. 3 cr.
†ECO 2023 Principles of Microeconomics ......................................................... 3 cr.
†FFP 2120 Fire Service Building Construction ................................................. 3 cr.
†FFP 2303 Fire Service Hydraulics ................................................................. 3 cr.
†FFP 2521 Construction Documents and Plans Review ..................................... 3 cr.
†PSY 2012 General Psychology ................................................................. 3 cr.
†FFP 1710 Company Officer .......................................................................... 3 cr.
†FFP 2305 Apparatus Practices ...................................................................... 3 cr.
†FFP 2740 Fire Service Course Delivery .......................................................... 3 cr.
†FFP 2811 Fire Fighting Tactics and Strategy II ............................................... 3 cr.
†FFP 2510 Codes and Standards ................................................................. 3 cr.
†FFP 2540 Private Fire Protection Systems ..................................................... 3 cr.
†FFP 2741 Fire Service Course Development .................................................. 3 cr.
†SYG 2000 Introduction to Sociology ............................................................. 3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

NOTE 1: The following classes are required for Florida Bureau of Fire Standards and Training Certification as a Fire Officer: FFP 1710, FFP 1810, FFP 2120, and FFP 2740.

NOTE 2: The following classes are required for Florida Bureau of Fire Standards and Training Certification as a Municipal Fire Safety Inspector: FFP 1506, FFP 2120, FFP 2510, FFP 2521, and FFP 2540.

AS • Hospitality and Tourism Management

AS.HFT.RES (60 Credit Hours)

This program will prepare students for supervisory jobs in the hospitality industry as managers, motel managers, a recreation establishment manager or resort manager.

NOTE 1: Beginning Fall term 2000, all graduates of this program shall articulate into a Hospitality Administration/Management baccalaureate degree (in those programs not accredited by AACSB) in the designated university program under the provision of Rule 6A-10.024, Articulation between Universities, Community Colleges, and School Districts.

NOTE 2: Beginning Fall term 2008, all graduates of this program are eligible to articulate the AS degree in Culinary Management to the BS degree in Hotel and Restaurant Management at the University of Houston, Conrad N. Hilton College of Hotel and Restaurant Management.

Program Required Courses

YEAR I – First Semester

†ENC 1101 English Composition I ................................................................. 3 cr.
FOS 1201 Sanitation and Safety Management .................................................. 2 cr.
FSS 1223C Food Preparation for Managers ...................................................... 4 cr.
FSS 2100 Menu Development and Marketing ............................................... 3 cr.

YEAR I – Second Semester

FSS 2120 Food Purchasing and Storage .......................................................... 3 cr.
HFT 1410 Front Desk Procedures .................................................................. 3 cr.
†SYG 2000 Introduction to Sociology ............................................................. 3 cr.

YEAR I – Third Semester

†ECO 2023 Principles of Microeconomics ......................................................... 3 cr.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 1000</td>
<td>Introduction to Hospitality Industry Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Mathematics General Education</td>
<td>3 cr.</td>
<td></td>
</tr>
</tbody>
</table>

**YEAR II – First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ACG 2021</td>
<td>Introduction to Financial Accounting</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HFT 2210</td>
<td>Supervisory Development</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HFT 2600</td>
<td>Hospitality Industry Law</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HFT 2750</td>
<td>Meeting, Convention and Exposition Industry</td>
<td>3 cr.</td>
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</tbody>
</table>

**YEAR II – Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSS 1500</td>
<td>Food and Beverage Control</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HFT 1790</td>
<td>The Event Industry</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HFT 2840</td>
<td>Maître d’ and Dining Room Service</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HFT 2941</td>
<td>Hospitality Management Internship</td>
<td>3 cr.</td>
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</tbody>
</table>

**YEAR II – Third Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†PSY 2012</td>
<td>General Psychology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Humanities General Education</td>
<td>3 cr.</td>
<td></td>
</tr>
</tbody>
</table>

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### AS • Industrial Management Technology

**AS.INDM.ARR/AS.INDM.AST/AS.INDM.BCV /AS.INDM.TECO/(60 Credit Hours)**

This program will prepare students for jobs as industrial managers and for advancement in various technical fields. Students who have successfully completed one of the various Tampa Electric Company training programs that have been articulated with the program (lineman, field engineering, substation electrician, plant electrician and controls analyst) or the HCC PSAV Automotive Collision Technology Technician certificate program, or the HCC PSAV Automotive Service Technology certificate program, or the HCC PSAV Bus Transit Technician I, II, III, or one of the HCC apprenticeship programs (ABC or IEC). For more information on current articulation agreements, consult an academic advisor or visit our website at [https://www.hccfl.edu/academics/articulation-agreements](https://www.hccfl.edu/academics/articulation-agreements).

**Articulated Credit and Electives**  
Variable articulated credits based on chosen technical field.

**Program Required Courses**

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†GEB 1011</td>
<td>Introduction to Business</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Mathematics General Education</td>
<td>3 cr.</td>
<td></td>
</tr>
<tr>
<td>Social Science General Education</td>
<td>3 cr.</td>
<td></td>
</tr>
</tbody>
</table>

**YEAR I – Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ENT 1000</td>
<td>Introduction to Entrepreneurship</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAN 2021</td>
<td>Principles of Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Humanities General Education</td>
<td>3 cr.</td>
<td></td>
</tr>
</tbody>
</table>

**YEAR I – Third Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†FIN 1100</td>
<td>Personal Finance</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SPC 1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**Specified Electives**

**‡ACG 2021** | Introduction to Financial Accounting | 3 cr. |

**ETI 2941** | Industrial Management Practicum | 30 cr. |
| MAN 2604 | Intercultural Relations in Business | 3 cr. |
| †MAR 2011 | Principles of Marketing | 3 cr. |
| SLS 1261 | Personal Skills/Business | 3 cr. |

*NOTE: The number of electives will be determined by the number of articulated credits awarded.

‡Courses symbolized by a dagger (‡) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
### AS • Internet Services Technology

**AS.WEB.TECH.OPT1/AS.WEB.TECH.OPT2 (60 Credit Hours)**

This program prepares students for internet-related jobs such as Web designer, site designer and internet architect.

### AS • Web Designer

**Program Required Courses**

#### YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Mathematics General Education</td>
<td>3 cr.</td>
<td></td>
</tr>
<tr>
<td>Social Science General Education</td>
<td>3 cr.</td>
<td></td>
</tr>
</tbody>
</table>

#### YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1103</td>
<td>Project Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS 1871</td>
<td>Multimedia Authoring I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*†CGS 2820</td>
<td>Web Authoring - HTML</td>
<td>3 cr.</td>
</tr>
<tr>
<td>COP 1000</td>
<td>Programming Logic</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1102</td>
<td>English Composition II or Social Science General Education</td>
<td>3 cr.</td>
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</table>

#### YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>†CGS 2585</td>
<td>Desktop/Internet Publishing</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS 2804</td>
<td>Vector Graphics Applications</td>
<td>3 cr.</td>
</tr>
<tr>
<td>COP 2830</td>
<td>Scripting for the Web</td>
<td>3 cr.</td>
</tr>
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</table>

#### YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 2821</td>
<td>Graphics Design for Multimedia and Internet</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS 2822</td>
<td>Web Site Creation</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2876</td>
<td>Digital Audio/Video Design</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Humanities General Education</td>
<td>3 cr.</td>
<td></td>
</tr>
</tbody>
</table>

#### YEAR II – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 2847</td>
<td>Advanced Graphics Design for Multimedia and Internet</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2939</td>
<td>Internet Services Technology Capstone</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Elective</td>
<td>3 cr.</td>
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</table>

Select 3 credit hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CGS 2874</td>
<td>Multimedia Authoring II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2930-35</td>
<td>Special Topics in Internet Services Technology</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

*Permission of instructor required for concurrent enrollment with prerequisite.

*Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

### AS • Web Developer

**AS.WEB.TECH.OPT2**

This program prepares students for internet-related jobs such as Webmaster, Web developer, site developer and internet programmer.

**Program Required Courses**

#### YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Mathematics General Education</td>
<td>3 cr.</td>
<td></td>
</tr>
<tr>
<td>Social Science General Education</td>
<td>3 cr.</td>
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</table>

#### YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 2541</td>
<td>Database Design</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS 2820</td>
<td>Web Authoring - HTML</td>
<td>3 cr.</td>
</tr>
<tr>
<td>COP 1000</td>
<td>Programming Logic</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

*Specified Electives | 3 cr.
### YEAR I – Third Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS  2091</td>
<td>Information Technology Ethical and Legal Issues</td>
<td>3 cr.</td>
</tr>
<tr>
<td>COP  2830</td>
<td>Scripting for the Web</td>
<td>3 cr.</td>
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</table>

### YEAR II – First Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS  2822</td>
<td>Web Site Creation</td>
<td>3 cr.</td>
</tr>
<tr>
<td>COP  2836</td>
<td>Database-driven Web Programming: Server</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CTS  2440</td>
<td>Database Programming SQL</td>
<td>3 cr.</td>
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</table>

### YEAR II – Second Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS  2939</td>
<td>Internet Services Technology Capstone</td>
<td>3 cr.</td>
</tr>
<tr>
<td>COP  2833</td>
<td>Database-driven Web Programming: Client</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CTS  2440</td>
<td>Database Programming SQL</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

### YEAR II – Third Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ENC  1102</td>
<td>English Composition II or Social Science General Education</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

*Specified Electives 3 cr.

### AS • IT Project Management

**AS.IT.PRO.MAN (60 Credit Hours)**

In this program prepares students for jobs such as IT program manager, IT project manager or IT project analyst.

#### Program Required Courses

##### YEAR I – First Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS  1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
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<tr>
<td>†ENC  1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
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<tr>
<td>†SPC  1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
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</table>

##### YEAR I – Second Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>†GEB  1011</td>
<td>Introduction to Business</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS  1103</td>
<td>Project Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS  1555</td>
<td>Introduction to the Internet</td>
<td>3 cr.</td>
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</table>

##### YEAR I – Third Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS  2091</td>
<td>Information Technology Ethical and Legal Issues</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

##### YEAR II – First Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ACG  2021</td>
<td>Introduction to Financial Accounting</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS  2105</td>
<td>IT Project Management Software Applications</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS  1761</td>
<td>Computer Operating Systems</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS  2301</td>
<td>Management Information Systems</td>
<td>3 cr.</td>
</tr>
<tr>
<td>OST  1335</td>
<td>Business Communications</td>
<td>3 cr.</td>
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</tbody>
</table>

##### YEAR II – Second Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CIS  2321</td>
<td>Systems Analysis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CIS  2945</td>
<td>IT Project Management Capstone</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MAN  2300</td>
<td>Introduction to Human Resource Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td><strong>Elective</strong></td>
<td></td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

* May require additional coursework.

**Select 3 credit hours of electives from any courses with prefix: CEN, CGS, CIS, CNT, COP, CTS**

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
AS • Medical Office Administration
AS.OA.MED.BIL / AS.OA.MED.MAN (60 credit hours)

This specialization prepares students for a position as a medical office manager, medical office assistant, medical coder, medical staff assistant, medical billing clerk, medical records clerk, insurance processor, medical transcriptionist, or executive assistant.

AS • Medical Office Administration – Billing Option
AS.OA.MED.BIL

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HIM 1000</td>
<td>Introduction to Health Information Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†HSC 1531</td>
<td>Medical Terminology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>OST 2854C</td>
<td>Office Applications for Business</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM 1112C</td>
<td>Electronic Health Records</td>
<td>2 cr.</td>
</tr>
<tr>
<td>OST 1335</td>
<td>Business Communications</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†PSY 2012</td>
<td>General Psychology or SYG 2000, Introduction to Sociology</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Mathematics General Education</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM 1453</td>
<td>Anatomy and Physiology for Medical Coding or BSC 2085, Human Anatomy and Physiology and BSC 2085L, Human Anatomy and Physiology Laboratory</td>
<td>4 cr.</td>
</tr>
<tr>
<td>PHI 1600</td>
<td>Ethics</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Humanities General Education</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>APA 1111</td>
<td>Basic Accounting</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HIM 2272C</td>
<td>Billing and Insurance II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HIM 2275C</td>
<td>Medical Billing and Insurance I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MAN 2021</td>
<td>Principles of Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SPC 1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
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</table>

YEAR II – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM 2253</td>
<td>CPT Coding</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HIM 2724</td>
<td>ICD-10 Coding</td>
<td>4 cr.</td>
</tr>
<tr>
<td>*OST 2135</td>
<td>Medical Office Procedures</td>
<td>3 cr.</td>
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<tr>
<td></td>
<td>Electives</td>
<td>2 cr.</td>
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</table>

**Select 2 credit hours from the following:

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CGS 1107</td>
<td>Introduction to Computers</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†CGS 1510</td>
<td>Spreadsheets Applications I</td>
<td>1 cr.</td>
</tr>
<tr>
<td>CGS 1520</td>
<td>Electronic Presentations</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†CGS 1540</td>
<td>Database Management I</td>
<td>1 cr.</td>
</tr>
<tr>
<td>CGS 1554</td>
<td>Internet Basics</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>

*Requires additional coursework.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Medical Office Administration – Management Option
AS.OA.MED.MAN

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HIM 1000</td>
<td>Introduction to Health Information Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†HSC 1531</td>
<td>Medical Terminology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>OST 2854C</td>
<td>Office Applications for Business</td>
<td>3 cr.</td>
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</table>
### YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM 1112C</td>
<td>Electronic Health Records</td>
<td>2 cr.</td>
</tr>
<tr>
<td>OST 1335</td>
<td>Business Communications</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†PSY 2012</td>
<td>General Psychology or SYG 2000, Introduction to Sociology</td>
<td>3 cr.</td>
</tr>
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**OR**

**†PSY 2012 General Psychology**

**†SYG 2000, Introduction to Sociology**

**Mathematics General Education**

### YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM 1453</td>
<td>Anatomy and Physiology for Medical Coding or BSC 2085, Human Anatomy</td>
<td>4 cr.</td>
</tr>
<tr>
<td>MAN 2021</td>
<td>Principles of Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PHI 1600</td>
<td>Ethics</td>
<td>3 cr.</td>
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**Mathematics General Education**

### YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>APA 1111</td>
<td>Basic Accounting</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MAN 2300</td>
<td>Introduction to Human Resource Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SPC 1608</td>
<td>Public Speaking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>OST 2858</td>
<td>Excel Spreadsheets for Business</td>
<td>3 cr.</td>
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### YEAR II – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM 2272C</td>
<td>Billing and Insurance II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>HIM 2275C</td>
<td>Medical Billing and Insurance I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>OST 1100C</td>
<td>Keyboarding and Document Processing</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†OST 2135</td>
<td>Medical Office Procedures</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

*Requires additional coursework. †Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

### AS • Network Systems Technology

**AS.NST.DIG.FOR/AS.NST.NA/AS.NST.INFR./AS.NST.SEC/AS.NST.UL.ADMIN**

(60 Credit Hours)

This collection of programs individually provides the skills necessary to plan, install, configure, monitor, troubleshoot, secure, and manage computer networks in a selected LAN/WAN environment. Students will be prepared to apply conceptual, theoretical and practical knowledge to the workplace utilizing technical skills learned during the program. Prepares student to be network control operators, data communications analysts, network technicians, computer security specialists, network specialists, network managers, network systems analysts, network systems technicians, network troubleshooters, WAN/LAN managers, or systems administrators, or continue education at a four-year university or college.

### AS • Digital Forensics

**AS.NST.DIG.FOR**

**Program Required Courses**

### YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*†CTS 1106</td>
<td>Introduction to Unix</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*†CTS 1305</td>
<td>Introduction to Networking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
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</tbody>
</table>

**Social Science General Education**

### YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CET 1172C</td>
<td>PC Upgrading and Repair: Hardware</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CNT 1401</td>
<td>Introduction to Network Security</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1102</td>
<td>English Composition II or Social Science General Education</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**Mathematics General Education**

**Elective**

### YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1103</td>
<td>Project Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS 2091</td>
<td>Information Technology: Ethical and Legal Ethics Issues</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

### YEAR II – First Semester
### Program Required Courses

#### AS • Network Administrator

**AS.NST.NA.**

**Program Required Courses**

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CTS 1305</td>
<td>Introduction to Networking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Humanities General Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Social Science General Education</td>
<td>3 cr.</td>
</tr>
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</table>

**YEAR I – Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CET 1172C</td>
<td>PC Upgrading and Repair: Hardware</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CNT 1401</td>
<td>Introduction to Network Security</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CTS 1303</td>
<td>MS Beginning Server I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1102</td>
<td>English Composition II or Social Science General Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Mathematics General Education</td>
<td>3 cr.</td>
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</table>

**YEAR I – Third Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>†CGS 1103</td>
<td>Project Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CTS 1306</td>
<td>MS Beginning Server II</td>
<td>3 cr.</td>
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**YEAR II – First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CET 1174C</td>
<td>PC Upgrading and Repair: Software</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CNT 2510</td>
<td>Wireless Networking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CTS 1302</td>
<td>MS Intermediate Server</td>
<td>3 cr.</td>
</tr>
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<td>3 cr.</td>
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</table>

**YEAR II – Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CEN 2939</td>
<td>Network Administrator Capstone</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CTS 1106</td>
<td>Introduction to Unix</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CTS 1328</td>
<td>MS Advanced Server</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

*Permission of instructor required for concurrent enrollment with prerequisite.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

**Select 6 credit hours of electives from the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEN 2904</td>
<td>Special Topics in Networking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CEN 2905</td>
<td>Special Topics in Networking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CEN 2930-33</td>
<td>Special Topics in Networking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CET 1600</td>
<td>Cisco Network Fundamentals</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>
CET 1610  Cisco Switching, Routing, and Wireless Essentials .......................................................... 3 cr.
AS • Network Infrastructure
AS.NST.INFR

Program Required Courses

YEAR I – First Semester
†CGS 1000 Introduction to Computers and Technology ................................................................. 3 cr.
†CTS 1305 Introduction to Networking .......................................................................................... 3 cr.
†ENC 1101 English Composition I ............................................................................................... 3 cr.
†CGS 1555 Introduction to the Internet .......................................................................................... 3 cr.
†CGS 1761 Computer Operating Systems ..................................................................................... 3 cr.
†ENC 1102 English Composition II or Social Science General Education ............................... 3 cr.

YEAR I – Second Semester
CET 1172C PC Upgrading and Repair: Hardware ........................................................................ 3 cr.
CET 1600 Cisco Network Fundamentals ...................................................................................... 3 cr.
†CNT 1401 Introduction to Network Security .................................................................................. 3 cr.
CTS 1303 MS Beginning Server I .................................................................................................. 3 cr.
†ENC 1102 English Composition II or Social Science General Education ............................... 3 cr.

YEAR I – Third Semester
CET 1610 Cisco Switching, Routing, and Wireless Essentials ................................................... 3 cr.
Mathematics General Education .................................................................................................. 3 cr.

YEAR II – First Semester
†CGS 1103 Project Management .................................................................................................. 3 cr.
†CET 1174C PC Upgrading and Repair: Software .......................................................................... 3 cr.
CET 2615 Cisco Enterprise Networking, Security, and Automation ........................................... 3 cr.
†CNT 2510 Wireless Networking .................................................................................................. 3 cr.

YEAR II – Second Semester
†CEN 2939 Network Administrator Capstone ............................................................................. 3 cr.
†CET 2772 Cybersecurity Operations Fundamentals ................................................................. 3 cr.
†CTS 1106 Introduction to Unix .................................................................................................... 3 cr.
**Elective ...................................................................................................................................... 3 cr.

**Select 3 credit hours of electives from the following:
CEN 2904 Special Topics in Networking ...................................................................................... 3 cr.
CEN 2905 Special Topics in Networking ...................................................................................... 3 cr.
CEN 2930-33 Special Topics in Networking .................................................................................. 3 cr.
†CGS 1555 Introduction to the Internet .......................................................................................... 3 cr.
†CGS 1761 Computer Operating Systems ..................................................................................... 3 cr.
†CGS 2301 Management Information Systems ............................................................................ 3 cr.
†CGS 2541 Database Design ......................................................................................................... 3 cr.

*Permission of instructor required for concurrent enrollment with prerequisite.
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Network Security
AS.NST.SEC

Program Required Courses

YEAR I – First Semester
†CGS 1000 Introduction to Computers and Technology ................................................................. 3 cr.
†CTS 1106 Introduction to Unix .................................................................................................... 3 cr.
†CTS 1305 Introduction to Networking .......................................................................................... 3 cr.

YEAR I – Second Semester
CTS 1303 MS Beginning Server I .................................................................................................. 3 cr.
‡CEN 2905 Special Topics in Networking ...................................................................................... 3 cr.
‡CTS 1106 Introduction to Unix .................................................................................................... 3 cr.
‡CTS 1305 Introduction to Networking .......................................................................................... 3 cr.

‡Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
†ENC 1101 English Composition I .............................................................................................................. 3 cr.
Social Science General Education .............................................................................................................. 3 cr.

YEAR I – Second Semester
CET 1172C PC Upgrading and Repair: Hardware ................................................................................... 3 cr.
†CNT 1401 Introduction to Network Security ........................................................................................... 3 cr.
CTS 2301C Unix-Linux Administration I ................................................................................................. 3 cr.
†ENC 1102 English Composition II or Social Science General Education ........................................... 3 cr.
**Elective .................................................................................................................................................. 3 cr.

YEAR I – Third Semester
†CGS 2091 Information Technology: Ethical and Legal Issues ................................................................... 3 cr.
CTS 2322 Unix/Linux Administration II .................................................................................................. 3 cr.

YEAR II – First Semester
CET 1174C PC Upgrading and Repair: Software ....................................................................................... 3 cr.
CIS 2359C Information Assurance: Network Systems .............................................................................. 3 cr.
Mathematics General Education ............................................................................................................ 3 cr.
**Elective .................................................................................................................................................. 3 cr.

YEAR II – Second Semester
†CEN 2939 Network Administrator Capstone .......................................................................................... 3 cr.
†CGS 1103 Project Management ............................................................................................................... 3 cr.
CIS 2353 Security Management and Penetration Testing ....................................................................... 3 cr.
**Elective .................................................................................................................................................. 3 cr.

**Select 6 credit hours from the following:
CEN 2904 Special Topics in Networking ................................................................................................. 3 cr.
CEN 2905 Special Topics in Networking .................................................................................................. 3 cr.
CEN 2930-33 Special Topics in Networking ............................................................................................. 3 cr.
CET 1600 Cisco Network Fundamentals .................................................................................................. 3 cr.
CET 1610 Cisco Switching, Routing, and Wireless Essentials .................................................................. 3 cr.
†CNT 2510 Wireless Networking .............................................................................................................. 3 cr.
CTS 1303 MS Beginning Server I ............................................................................................................ 3 cr.

*Permission of instructor required for concurrent enrollment with prerequisite.
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Office Administration

AS • Office Management
AS.OA.OMTS/( 60 Credit Hours)
This specialization prepares students for mid-management positions such as administrative office manager, office manager, equipment sales representative, administrative support manager, staff assistant, executive secretary, human resource technician, office manager, or executive assistant.

Program Required Courses

YEAR I – First Semester
†ENC 1101 English Composition I .............................................................................................................. 3 cr.
†GEB 1011 Introduction to Business ......................................................................................................... 3 cr.
OST 1100C Beginning PC Typing ............................................................................................................ 3 cr.
†SPC 1608 Public Speaking ....................................................................................................................... 3 cr.

YEAR I – Second Semester
†MAN 2021 Principles of Management ...................................................................................................... 3 cr.
OST 2854C Office Applications for Business ............................................................................................ 3 cr.
†SYG 2000 Introduction to Sociology or †PSY 2012, General Psychology ................................................. 3 cr.
Mathematics General Education ............................................................................................................ 3 cr.

YEAR I – Third Semester
OST 1335 Business Communications ...................................................................................................... 3 cr.
Humanities General Education ................................................................................................................. 3 cr.

YEAR II – First Semester
AS • Paralegal Studies (Legal Assisting)

This program will prepare students for a paraprofessional career as a paralegal (legal assistant). Under the supervision and direction of a licensed attorney, paralegals may engage in legal research, case development, preparation of legal documents and trial exhibits, analyze information, interview clients, assist in office management, and other responsibilities unique to the legal profession. Graduates of the program are prepared to sit for national certification exams.

NOTE 1: All graduates of this AS degree program shall be granted admission into the Legal Studies baccalaureate degree program at Florida Gulf Coast University or St. Pete College.

NOTE 2: This program of study is a suggested pathway for the Paralegal Studies AS program. Please consult an advisor or counselor for more guidance.

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PLA 1003</td>
<td>Introduction to the Paralegal Profession</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PLA 1104</td>
<td>Writing and Research I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†PLA 1271</td>
<td>Tort Law or †PLA 2421, Contract Law</td>
<td>3 cr.</td>
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YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>†PLA 1433</td>
<td>Business Organizations</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†PLA 2800</td>
<td>Family Law</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PLA 2114</td>
<td>Writing and Research II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†PLA 1271</td>
<td>Tort Law or †PLA 2421, Contract Law</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Mathematics General Education</td>
<td>3 cr.</td>
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</table>

YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ACG 2021</td>
<td>Introduction to Financial Accounting</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†PLA 1203</td>
<td>Litigation Procedures I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PLA 1600</td>
<td>Administering Wills/Trusts/Probate</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>PLA elective offered during this term.</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Social Science General Education</td>
<td>3 cr.</td>
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</table>

YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1102</td>
<td>English Composition II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†PLA 1611</td>
<td>Real Estate Law/Property Transactions I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PLA 2223</td>
<td>Litigation Procedures II</td>
<td>3 cr.</td>
</tr>
<tr>
<td></td>
<td>Humanities General Education</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>
†ENC 1101 English Composition I .............................................................................................................. 3 cr.

YEAR I – First Semester

AS • Restaurant Management
AS.CUL.RES (60 Credit Hours)

This program provides students with the skills necessary for employment as a manager of a hotel/motel, a restaurant, a cafe, a bar, a liquor establishment, a coffee shop, a catering agency or a fast food service.

The Restaurant Management program and courses are accredited by the American Culinary Federation Foundation’s Accrediting Commission at 180 Center Place Way, St. Augustine, Florida 32095.

NOTE: Beginning Fall term 2008, all graduates of this program are eligible to articulate the AS degree in Culinary Management to the BS degree in Hotel and Restaurant Management at the University of Houston, Conrad N. Hilton College of Hotel and Restaurant Management.

Program Required Courses

YEAR I – First Semester

†ENC 1101 English Composition I .............................................................................................................. 3 cr.
FOS 1201 Sanitation and Safety Management ........................................................................................... 2 cr.
FSS 1223C Food Preparation for Managers ............................................................................................... 4 cr.
FSS 2100 Menu Development and Marketing ........................................................................................... 3 cr.

YEAR I – Second Semester

FSS 1063C Food Specialty I (Baking) ........................................................................................................... 3 cr.
FSS 1500 Food and Beverage Control ........................................................................................................ 3 cr.
HFT 2840 Maître d’ and Dining Room Service ........................................................................................... 3 cr.

YEAR I – Third Semester

†CGS 1000 Introduction to Computers and Technology ............................................................................ 3 cr.
Mathematics General Education ............................................................................................................. 3 cr.

YEAR II – First Semester

†ACG 2071 Managerial Accounting ............................................................................................................ 3 cr.
AP 1811 Basic Accounting .......................................................................................................................... 3 cr.
†PLA 1700 Legal Ethics and Professional Responsibility ........................................................................... 3 cr.
PLA 1949 Paralegal Internship .................................................................................................................... 3 cr.
PLA 2303 Criminal Litigation .................................................................................................................... 3 cr.
PLA 2460 Bankruptcy Law .......................................................................................................................... 3 cr.
†PLA 2531 Elder Law ................................................................................................................................... 3 cr.
PLA 2612 Real Estate Law/Property Trans II ............................................................................................. 3 cr.
†PLA 2732 Law Office Computer Applications ......................................................................................... 3 cr.
PLA 2763 Law Office Management .......................................................................................................... 3 cr.
PLA 2822 Sports and Entertainment Law .................................................................................................. 3 cr.
PLA 2841 Immigration Law ....................................................................................................................... 3 cr.
PLA 2933 Seminar in Legal Assisting Studies ........................................................................................... 3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

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AS • Supply Chain Management

AS.SPLY.CHN.MGMT (60 Credit Hours)

This program is to prepare students for careers and further education in Transportation, Distribution and Logistics. The program reflects the cross-functional relationships prevalent in supply chain management. Students are exposed to standard operating procedures, negotiation techniques, planning, organizing, and accounting concepts, purchasing, sustainability, warehousing, project management, quality control, import/export, and asset management theory.

Program Required Courses

<table>
<thead>
<tr>
<th>YEAR I – First Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>†**CGS 1000</td>
<td>Introduction to Computers and Technology</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
</tr>
<tr>
<td>†**GEB 1011</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>†MAC 1105</td>
<td>College Algebra</td>
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</table>

<table>
<thead>
<tr>
<th>YEAR I – Second Semester</th>
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</tr>
</thead>
<tbody>
<tr>
<td>†ACG 2021</td>
<td>Introduction to Financial Accounting</td>
</tr>
<tr>
<td>†BUL 2241</td>
<td>Business Law I</td>
</tr>
<tr>
<td>SCM 1010</td>
<td>Introduction to Supply Chain Management</td>
</tr>
<tr>
<td>†*STA 2023</td>
<td>Elementary Statistics</td>
</tr>
<tr>
<td></td>
<td>Electives offered during this term</td>
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<table>
<thead>
<tr>
<th>YEAR I – Third Semester</th>
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<tbody>
<tr>
<td>†ECO 2013</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>†**MAN 2021</td>
<td>Principles of Management</td>
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<tr>
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<td>Humanities General Education</td>
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<table>
<thead>
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<th>YEAR II – First Semester</th>
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<tbody>
<tr>
<td>ETI 1110</td>
<td>Introduction to Quality</td>
</tr>
<tr>
<td>SCM 2270</td>
<td>Transportation and Distribution</td>
</tr>
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<td>Electives offered during this term</td>
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<table>
<thead>
<tr>
<th>YEAR II – Second Semester</th>
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<tbody>
<tr>
<td>MAN 2500</td>
<td>Operations Management</td>
</tr>
<tr>
<td>SCM 2150</td>
<td>Purchasing and Inventory Management</td>
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<tr>
<td>SCM 2230</td>
<td>Warehouse Management</td>
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<td>Electives offered during this term</td>
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</table>

Program Electives (12 credits required)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>†ACG 2071</td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td>†BUL 2242</td>
<td>Business Law II</td>
</tr>
<tr>
<td>CGS 2301</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>ETI 1622</td>
<td>Concepts of Lean and Six Sigma</td>
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<tr>
<td>ETI 1644</td>
<td>Production and Inventory Control</td>
</tr>
<tr>
<td>†FIN 2001</td>
<td>Principles of Finance</td>
</tr>
<tr>
<td>FIN 2051</td>
<td>International Financial Management</td>
</tr>
<tr>
<td>†GEB 2214</td>
<td>Business Communications and Technology</td>
</tr>
<tr>
<td>†GEB 2350</td>
<td>Introduction to International Business Essentials</td>
</tr>
<tr>
<td>MAN 2652</td>
<td>Global Management</td>
</tr>
<tr>
<td>**MAN 2930</td>
<td>Special Topics in Supply Chain Management</td>
</tr>
<tr>
<td>MAN 2942</td>
<td>Supply Chain Management Internship</td>
</tr>
<tr>
<td>†MAR 2011</td>
<td>Principles of Marketing</td>
</tr>
<tr>
<td>MAR 2150</td>
<td>International Marketing</td>
</tr>
</tbody>
</table>

*Articulated with MSSC CLT Certification

**Articulated with APICS GLA Certification
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
AS • Veterinary Technology

AS.VET.TECH (73 Credit Hours)

Veterinary Technology is a rapidly growing field. Employment of veterinary technicians/technologists is expected to grow much faster than the average for all occupations through the year 2012, according to the most recent information from the U.S. Department of Labor. Graduates from this program will find careers in areas such as private practice, animal shelters and humane societies, agriculture (equine services, farms, and ranches), biomedical research, zoo/wildlife medicine, tourist/recreational facility animal care and research, and pharmaceutical and government. This program which awards the associate in science degree will prepare students to enter the workforce prepared for clinical practice, research animal husbandry, or clinical management.

The HCC Veterinary Technology program is accredited by the American Veterinary Medical Association. Graduates of this program are eligible to take the Veterinary Technician National Examination.

Prerequisites for Admission

NOTE: Completion of prerequisites for admission with a grade of “C” or higher is required.

Prerequisite Courses Required for Admission

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>†ATE 1001</td>
<td>Introduction to Veterinary Technology</td>
<td>1 cr.</td>
</tr>
<tr>
<td>ATE 1112</td>
<td>Animal Anatomy and Physiology I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ATE 1113</td>
<td>Animal Anatomy and Physiology II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ATE 1501</td>
<td>Veterinary Professional Development Ethics</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†ATE 1741</td>
<td>Veterinary Medical Terminology</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†ENC 1101</td>
<td>English Composition I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105</td>
<td>College Algebra or †MGF 1106, Topics in Mathematics or higher General Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ZOO 1010C</td>
<td>General Zoology</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

NOTE: Completion of all general education and Veterinary Technology program required courses with a grade of “C” or higher is required for graduation.

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE 1110L</td>
<td>Animal Anatomy Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>ATE 1311L</td>
<td>Veterinary Office Procedures Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>ATE 1650L</td>
<td>Veterinary Clinical Practice Laboratory I</td>
<td>1 cr.</td>
</tr>
<tr>
<td>ATE 2050</td>
<td>Small Animal Breeds and Behavior</td>
<td>1 cr.</td>
</tr>
<tr>
<td>ATE 2638</td>
<td>Animal Clinical Pathology I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ATE 2638L</td>
<td>Animal Clinical Pathology I Laboratory</td>
<td>2 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE 1943</td>
<td>Veterinary Work Experience I</td>
<td>1 cr.</td>
</tr>
<tr>
<td>ATE 2636C</td>
<td>Large Animal Nursing and Clinical Skills</td>
<td>2 cr.</td>
</tr>
<tr>
<td>ATE 1652L</td>
<td>Veterinary Clinical Practice Laboratory II</td>
<td>2 cr.</td>
</tr>
<tr>
<td>ATE 2661</td>
<td>Large Animal Diseases</td>
<td>2 cr.</td>
</tr>
<tr>
<td>ATE 2639</td>
<td>Animal Clinical Pathology II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ATE 2639L</td>
<td>Animal Clinical Pathology II Laboratory</td>
<td>2 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE 1031</td>
<td>Applied Mathematics for Veterinary Technicians</td>
<td>1 cr.</td>
</tr>
<tr>
<td>ATE 1944</td>
<td>Veterinary Work Experience II</td>
<td>1 cr.</td>
</tr>
<tr>
<td>ATE 2611</td>
<td>Animal Medicine I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ATE 2671C</td>
<td>Medicine of Laboratory Animals</td>
<td>2 cr.</td>
</tr>
<tr>
<td></td>
<td>Humanities or Social Science General Education</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE 2614</td>
<td>Animal Medicine II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ATE 2630</td>
<td>Pharmacology for Veterinary Technicians</td>
<td>2 cr.</td>
</tr>
<tr>
<td>ATE 2631</td>
<td>Small Animal Nursing I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ATE 2631L</td>
<td>Small Animal Nursing Laboratory</td>
<td>2 cr.</td>
</tr>
<tr>
<td>ATE 2722</td>
<td>Avian and Exotic Pet Medicine</td>
<td>1 cr.</td>
</tr>
<tr>
<td>ATE 2945</td>
<td>Veterinary Work Experience III</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>
YEAR II – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE 2020C</td>
<td>Contemporary Clinical Issues</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ATE 2634</td>
<td>Small Animal Nursing II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ATE 2710</td>
<td>Animal Emergency Medicine</td>
<td>2 cr.</td>
</tr>
<tr>
<td>ATE 2946</td>
<td>Veterinary Work Experience IV</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>

Humanities/Social Science General Education........................................... 3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.
College Credit Certificates

A college credit certificate (CCC) may be awarded for programs of less than two years in selected technical areas leading to an associate in science degree. The CCC's are designed to prepare the student for entry into a particular field or to upgrade the skills of those already employed in the field.

ATC • Paralegal (Legal Assisting)
ATC.PLA (21 Credit Hours)

The Paralegal/Legal Assisting Advanced Technical Certificate is designed to enable students who already hold a bachelor’s degree or higher to take paralegal courses at Hillsborough Community College and qualify to take the Certified Legal Assistant exam sponsored by the National Association for Legal Assistants. It further prepares those students for work of a legal nature in law offices, corporations or governmental agencies.

Program Required Courses

YEAR I – First Semester
PLA 1003 Introduction to the Paralegal Profession ................................................................. 3 cr.
†PLA 1271 Tort Law ................................................................................................................ 3 cr.
*Any PLA specified elective offered during this term. ......................................................... 3 cr.

YEAR I – Second Semester
PLA 1104 Writing and Research I .......................................................................................... 3 cr.
*Any PLA specified elective offered during this term. ......................................................... 3 cr.

YEAR I – Third Semester
PLA 2114 Writing and Research II ....................................................................................... 3 cr.
*Any PLA specified elective offered during this term. ......................................................... 3 cr.

*Select 9 credit hours from the following:
†PLA 1203 Litigation Procedures I ......................................................................................... 3 cr.
†PLA 1433 Business Organizations ...................................................................................... 3 cr.
PLA 1600 Administration of Wills/Trusts/Probate ................................................................ 3 cr.
†PLA 1611 Real Estate Law/Property Transactions I ............................................................ 3 cr.
†PLA 1700 Legal Ethics and Professional Responsibility ...................................................... 3 cr.
PLA 2303 Criminal Litigation ............................................................................................... 3 cr.
†PLA 2421 Contract Law ........................................................................................................ 3 cr.
PLA 2460 Bankruptcy Law .................................................................................................... 3 cr.
†PLA 2800 Family Law ......................................................................................................... 3 cr.

NOTE: A grade of “C” or better must be attained for each course taken for this certificate.

NOTE: Coursework may be applied to the two-year AS degree Paralegal Studies program.
†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

CCC • Accounting Technology Management
CCC.ACG.TECH.MGMT (27 Credit Hours)

Program Required Courses

YEAR I – First Semester
†ACG 2021 Introduction to Financial Accounting ................................................................... 3 cr.
†CGS 1000 Introduction to Computers and Technology ....................................................... 3 cr.
GEB 1011 Introduction to Business ....................................................................................... 3 cr.

YEAR I – Second Semester
ACG 2061 Computers and Accounting .................................................................................. 3 cr.
†ACG 2071 Managerial Accounting ...................................................................................... 3 cr.
†GEB 2214 Business Communications and Technology ....................................................... 3 cr.

YEAR I – Third Semester
PHI 1600 Ethics .................................................................................................................. 3 cr.

YEAR II – First Semester
ACG 2104 Intermediate Accounting ................................................................. 3 cr.

ACG 2681 Financial Investigation ........................................................................ 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**CCC • Accounting Technology Operations**

CCC.ACG.TECH.OP (18 Credit Hours)

Program Required Courses

**YEAR I – First Semester**

†ACG 2021 Introduction to Financial Accounting .................................................. 3 cr.
†CGS 1000 Introduction to Computers and Technology ............................................ 3 cr.
GEB 1011 Introduction to Business ........................................................................ 3 cr.

**YEAR I – Second Semester**

ACG 2061 Computers and Accounting .................................................................. 3 cr.
†ACG 2071 Managerial Accounting ....................................................................... 3 cr.
†GEB 2214 Business Communications and Technology ......................................... 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**CCC • Accounting Technology Specialist**

CCC.ACG.TECH.SPEC (12 Credit Hours)

Program Required Courses

**YEAR I – First Semester**

†ACG 2021 Introduction to Financial Accounting .................................................. 3 cr.
†CGS 1000 Introduction to Computers and Technology ............................................ 3 cr.
†GEB 2214 Business Communications and Technology ......................................... 3 cr.
†GEB 2214 Business Communications and Technology ......................................... 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**CCC • Advanced Network Infrastructure**

CCC.ADV.NET.INF (36 Credit Hours)

Program Required Courses

**YEAR I – First Semester**

†CGS 1000 Introduction to Computers and Technology ............................................ 3 cr.
*†CTS 1305 Introduction to Networking .................................................................. 3 cr.

**YEAR I – Second Semester**

CET 1600 Cisco Network Fundamentals ................................................................ 3 cr.
†CNT 1401 Introduction to Network Security ......................................................... 3 cr.
**CTS 1303 MS Beginning Server I ......................................................................... 3 cr.

**YEAR I – Third Semester**

*CET 1610 Cisco Switching, Routing, and Wireless Essentials ............................... 3 cr.
†CTS 1306 MS Beginning Server II ........................................................................ 3 cr.

**YEAR II – First Semester**

COP 1000 Introduction to Python Programming ................................................... 3 cr.
CET 2615 Cisco Enterprise Networking, Security, and Automation .......................... 3 cr.

**YEAR II – Second Semester**

CIS 2772 Cybersecurity Operations Fundamentals ................................................ 3 cr.
CIS 2353 Security Management and Penetration Testing ...................................... 3 cr.
†CNT 2510 Wireless Networking ........................................................................... 3 cr.

*Permission of instructor required for concurrent enrollment with prerequisite.

**May require additional coursework.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Network Systems Technology program.
CCC • Aquaculture Technology
CCC.AQUA (26 Credit Hours)

This program will prepare students for employment in the field of aquaculture technology and transfers into the associate in science degree program titled Aquaculture.

Program Required Courses

YEAR I – First Semester
FAS 1012C Aquacultural Organisms .......................................................................................................... 3 cr.
ZOO 1450 Ichthyology ................................................................................................................................... 3 cr.
ZOO 1450L Ichthyology Laboratory .............................................................................................................. 1 cr.

YEAR I – Second Semester
FAS 1401L Aquacultural Laboratory Techniques ..................................................................................... 3 cr.
FAS 2263C Aquacultural Reproductive Techniques ................................................................................ 3 cr.

YEAR II – First Semester
FAS 2240C Aquacultural Nutritional Techniques .................................................................................... 3 cr.
FAS 2253 Aquaculture Disease Processes ............................................................................................... 3 cr.
FAS 2253L Aquaculture Disease Processes Laboratory .......................................................................... 1 cr.

YEAR II – Second Semester
FAS 1404C Aquacultural Field Techniques ............................................................................................... 3 cr.
FAS 2353C Aquacultural Management Practices ...................................................................................... 3 cr.

NOTE: Coursework may be applied to the two-year AS degree Aquaculture program.

CCC • AutoCAD Foundations
CCC.ADCT.CAD (15 Credit Hours)

This certificate provides students with the AutoCAD skills needed to assist architects and construction engineers in planning, designing and detailing. Computer design techniques are emphasized in the certificate.

Program Required Courses

YEAR I – First Semester
BCN 1250 Introduction to Graphic Technology ...................................................................................... 3 cr.
BCN 2272 Blueprint Reading ..................................................................................................................... 3 cr.
*TAR 2053 Introduction to Computer Design and Drafting ................................................................... 3 cr.

YEAR I – Second Semester
ARC 2461 Materials and Methods I .......................................................................................................... 3 cr.
*TAR 2054 Intermediate Computer Aided Design and Drafting ........................................................... 3 cr.

*May require additional coursework.

NOTE: Coursework may be applied to the two-year AS degree Architectural Design and Construction Technology program.

CCC • Automation
CCC.EST (12 Credit Hours)

This certificate prepares students for engineering technology support positions dealing with PLCs, automation, and control systems in high tech production, manufacturing, distribution, and engineering research and development facilities.

Program Required Courses

YEAR I – First Semester
ETI 1843 Motors and Controls .................................................................................................................. 3 cr.
ETS 1542 Introduction to Programmable Logic Controllers ................................................................. 3 cr.

YEAR I – Second Semester
ETS 1535 Automated Process Control .................................................................................................... 3 cr.
ETS 2604 Robotics Applications ............................................................................................................... 3 cr.

NOTE: Coursework may be applied to the two-year AS degree Engineering Technology program.
### CCC • Biotechnology Laboratory Specialist

**CCC.BIO.TECH.SPEC** (19 Credit Hours)

**Program Required Courses**

#### YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*BSC 2420</td>
<td>Biotechnology I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*BSC 2420L</td>
<td>Biotechnology I Laboratory</td>
<td>2 cr.</td>
</tr>
</tbody>
</table>

#### YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2419C</td>
<td>Plant and Animal Cell Culture</td>
<td>3 cr.</td>
</tr>
<tr>
<td>BSC 2427</td>
<td>Biotechnology II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>BSC 2427L</td>
<td>Biotechnology II Laboratory</td>
<td>2 cr.</td>
</tr>
</tbody>
</table>

#### YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2435C</td>
<td>Bioinformatics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>STA 2023</td>
<td>Elementary Statistics</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

* Requires additional coursework.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**NOTE:** Coursework may be applied to the two-year AS degree Biotechnology Laboratory Technology program.

### CCC • Broadcast Production

**CCC.RTV** (24 Credit Hours)

This certificate allows students to obtain basic training for a specific entry-level job in broadcast production.

**Program Required Courses**

#### YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTV 1530</td>
<td>Electronic Field Production</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2000</td>
<td>Introduction to Broadcasting</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2560</td>
<td>Radio Production and Programming</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

#### YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTV 2532</td>
<td>Advanced Electronic Field Production</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2510</td>
<td>Broadcasting Techniques</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2630</td>
<td>Broadcast News</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

#### YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTV 1941</td>
<td>Radio and TV Internship I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2512</td>
<td>Advanced Television Studio Production</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**NOTE:** Coursework may be applied to the two-year AS degree Digital Television and Media Production program.

### CCC • Business Development and Entrepreneurship

**CCC.BUS.DEV.ENT** (25 Credit Hours)

**Program Required Courses**

#### YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENT 1000</td>
<td>Introduction to Entrepreneurship</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ENT 1031</td>
<td>Entrepreneurial Marketing and Sales</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

#### YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1510</td>
<td>Spreadsheet Applications I</td>
<td>1 cr.</td>
</tr>
<tr>
<td>ENT 1411</td>
<td>Small Business Accounting and Finance</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ENT 1012</td>
<td>Entrepreneurship Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†GEB 2214</td>
<td>Business Communications and Technology</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

#### YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>†BUL 2241</td>
<td>Business Law I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†SBM 2000</td>
<td>Small Business Management</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Business Administration program.

**CCC • Business Intelligence Professional**
CCC.BUS.PRO (20 Credit Hours)

**Program Required Courses**

**YEAR I – First Semester**
- †CGS 1000 Introduction to Computers and Technology ................................................................. 3 cr.
- STA 2303 Elementary Statistics ........................................................................................................ 3 cr.

**YEAR I – Second Semester**
- COP 1000 Programming Logic ........................................................................................................... 3 cr.
- CGS 1540 Database Management ....................................................................................................... 1 cr.

**YEAR I – Third Semester**
- CGS 1510 Spreadsheet Applications I .............................................................................................. 1 cr.
- CGS 2541 Database Design ................................................................................................................ 3 cr.

**YEAR II – First Semester**
- COP 2050 R-Programming ................................................................................................................ 3 cr.

**YEAR II – Second Semester**
- ISM 2110 Business Intelligence I ....................................................................................................... 3 cr.

**CCC • Business Management**
CCC.BUS.MAN (24 Credit Hours)

**Program Required Courses**

**YEAR I – First Semester**
- †ACG 2021 Introduction to Financial Accounting ................................................................................ 3 cr.
- †CGS 1000 Introduction to Computers and Technology ....................................................................... 3 cr.
- †GEB 1011 Introduction to Business .................................................................................................... 3 cr.

**YEAR I – Second Semester**
- †ACG 2071 Managerial Accounting .................................................................................................... 3 cr.
- †MAN 2021 Principles of Management ................................................................................................. 3 cr.
- †MAR 2011 Principles of Marketing ...................................................................................................... 3 cr.

**YEAR I – Third Semester**
- †BUL 2241 Business Law I .................................................................................................................. 3 cr.
- †GEB 2214 Business Communications and Technology or †SPC 1608 Public Speaking .................. 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**NOTE:** Coursework may be applied to the two-year AS degree Business Administration program.

**CCC • Business Operations**
CCC.BUS.OPER (18 Credit Hours)

**Program Required Courses**

**YEAR I – First Semester**
- †ACG 2021 Introduction to Financial Accounting ................................................................................ 3 cr.
- †GEB 1011 Introduction to Business .................................................................................................... 3 cr.
- †MAN 2021 Principles of Management ................................................................................................. 3 cr.

**YEAR I – Second Semester**
- †BUL 2241 Business Law I .................................................................................................................. 3 cr.
- †GEB 2214 Business Communications and Technology or †SPC 1608 Public Speaking .................. 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.
NOTE: Coursework may be applied to the two-year AS degree Business Administration program.

**CCC • Business Specialist**

**CCC.BUS.SPEC (12 Credit Hours)**

Program Required Courses

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ACG 2021</td>
<td>Introduction to Financial Accounting</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†GEB 1011</td>
<td>Introduction to Business</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR I – Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†GEB 2214</td>
<td>Business Communications and Technology or †SPC 1608 Public Speaking</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAN 2021</td>
<td>Principles of Management</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Business Administration program.

**CCC • Chef's Apprentice**

**CCC.CUL.CHEF (12 Credit Hours)**

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 in Culinary. It provides 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 for entry-level positions as a pantry cook, prep cook or lead cook.

Program Required Courses

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSS 1223C</td>
<td>Food Preparation for Managers</td>
<td>4 cr.</td>
</tr>
<tr>
<td>FOS 1201</td>
<td>Safety and Sanitation</td>
<td>2 cr.</td>
</tr>
</tbody>
</table>

**YEAR I – Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSS 1063C</td>
<td>Food Specialty I (Baking)</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSS 1248C</td>
<td>Food Specialties II (Garde Manger I)</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

NOTE: Coursework may be applied to the two-year AS degree Culinary Management program.

**CCC • CNC (Computer Numerical Control) Machinist**

**CCC.CNC.MACH (12 Credit Hours)**

This program prepares students for careers in Computer Numerical Control (CNC) machining and includes computer aided drafting and design skills, technical communications, maintenance and operation of various industrial tools and equipment, quality control and testing, material handling protocols, proper usage of tools and instrumentation, and programming, among others.

Program Required Courses

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETD 2364C</td>
<td>Introduction to 3D Computer-Aided Design</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ETI 1420</td>
<td>Manufacturing Processes and Materials</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR I – Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMT 1250C</td>
<td>Computer Numerical Control (CNC) I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PMT 2254C</td>
<td>Computer Numerical Control (CNC) II</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

NOTE: Coursework may be applied to the two-year AS degree Engineering Technology program.

**CCC • Computer Programmer**

**CCC.COP.OPT1 (36 Credit Hours)**

This program prepares students for jobs in the field of computer programmer, junior programmer, senior programmer, data manager, programmer analyst, and mid-range computer specialist.

Program Required Courses

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>
**Any specified electives offered during this term.......................................................... 3 cr.
YEAR I – Second Semester

CGS 2541 Database Design .................................................................................................................. 3 cr.
COP 1000 Programming Logic ............................................................................................................. 3 cr.

**Any specified electives offered during this term .............................................................................. 3 cr.

YEAR I – Third Semester

†CGS 2301 Management Information Systems .................................................................................. 3 cr.
*†CIS 2321 Systems Analysis ............................................................................................................... 3 cr.

**Any specified electives offered during this term .............................................................................. 3 cr.

YEAR II – First Semester

**Any specified electives offered during this term .............................................................................. 12 cr.

**Select 21 credit hours from the following:

COP 1030 Introduction to Python Programming .................................................................................. 3 cr.
COP 1120 COBOL, Beginning ............................................................................................................... 3 cr.
†COP 1220 Programming in C ............................................................................................................... 3 cr.
COP 1332 Visual BASIC, Beginning ................................................................................................... 3 cr.
COP 1812 Introduction to XML Authoring ......................................................................................... 3 cr.
*COP 2224 Programming in C++ ....................................................................................................... 3 cr.
COP 2654 Mobile Platform Applications Development ...................................................................... 3 cr.
COP 2800 Java Programming ............................................................................................................. 3 cr.
*COP 2805 Java, Advanced .................................................................................................................. 3 cr.
COP 2833 Database-driven Web Programming: Client ....................................................................... 3 cr.
COP 2836 Database-driven Web Programming: Server ....................................................................... 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

*Requires additional coursework.

NOTE: Coursework may be applied to the two-year AS degree Computer Programming program.

CCC - Computer Programming Specialist
CCC.PROG.SPEC (18 Credit Hours)

Program Required Courses

YEAR I – First Semester

†CGS 1000 Introduction to Computers and Technology ..................................................................... 3 cr.

YEAR I – Second Semester

*†CIS 2321 Systems Analysis ............................................................................................................... 3 cr.
COP 1000 Programming Logic ............................................................................................................. 3 cr.

YEAR II – First Semester

**Any specified electives offered during this term .............................................................................. 9 cr.

**Select 9 credit hours from the following:

COP 1120 COBOL, Beginning ............................................................................................................... 3 cr.
†COP 1220 Programming in C ............................................................................................................... 3 cr.
COP 1332 Visual BASIC, Beginning ................................................................................................... 3 cr.
COP 2360 Programming in C# .............................................................................................................. 3 cr.
COP 2800 Java Programming ............................................................................................................. 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

*Requires additional coursework.

NOTE: Coursework may be applied to the two-year AS degree Computer Programming program.
CCC • Crime Scene
ccc.cs (28 Credit Hours)
This program is designed to prepare graduates for work in the field of crime scene investigations and forensics. For more information, students can refer to the Criminal Justice Technology website at www.hccfl.edu/cjt for specific details.

Program Required Courses

YEAR I – First Semester

†CCJ 1020 Introduction to Criminal Justice ................................................................................. 3 cr.
†CJE 1640 Introduction to Criminalistics ...................................................................................... 3 cr.
CJE 1642C Introduction to Crime Scene Technology ................................................................. 3 cr.
†CJE 2600 Criminal Investigation ................................................................................................. 3 cr.
CJE 2671C Latent Fingerprint Development .............................................................................. 2 cr.
CJE 2672C Fingerprint Classification .......................................................................................... 2 cr.

YEAR I – Second Semester

CJE 1643C Advanced Crime Scene Technology ......................................................................... 3 cr.
CJE 2770C Forensic Photography ............................................................................................... 3 cr.
†CJL 2130 Criminal Evidence and Procedure ........................................................................... 3 cr.
†CJL 2610 Courtroom Presentation of Scientific Evidence ...................................................... 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Criminology and Criminal Justice Studies program.

CCC • Criminal Justice Technology Specialist
ccc.cjt.spec (24 Credit Hours)
Program Required Courses

YEAR I – First Semester

†CCJ 1020 Introduction to Criminal Justice ................................................................................. 3 cr.
CGS 1000 Introduction to Computers and Technology ............................................................... 3 cr.
†CJE 1000 Introduction to Law Enforcement .............................................................................. 3 cr.
†CCJ 1488 Ethics in Criminal Justice .......................................................................................... 3 cr.

YEAR I – Second Semester

CJE 2618 Forensic Psychology .................................................................................................. 3 cr.
†CJJ 1002 Juvenile Delinquency ................................................................................................. 3 cr.
†CJL 2130 Criminal Evidence and Procedure ........................................................................... 3 cr.
SCC 1000 Introduction to Private Security ............................................................................... 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Criminology and Criminal Justice Studies program. For more information visit www.hccfl.edu/cjt.

CCC • Culinary Arts
ccc.cula (35 Credit Hours)
The purpose of this program is to prepare students for employment in commercial and institutional positions such as bakers, pantry cooks, prep cooks, and lead cooks in the culinary industry and/or to provide supplemental training for persons previously or currently employed in these occupations.

Program Required Courses

YEAR I – First Semester

FOS 1201 Safety and Sanitation ................................................................................................... 2 cr.
FSS 1223C Food Preparation for Managers ............................................................................... 4 cr.
FSS 2100 Menu Development and Marketing .......................................................................... 3 cr.
HFT 2210 Supervisory Development ......................................................................................... 3 cr.

YEAR I – Second Semester

FSS 1063C Food Specialty I (Baking) .......................................................................................... 3 cr.
FSS 1500 Food and Beverage Control ......................................................................................... 3 cr.
FSS 2120 Food Purchasing and Storing ................................................................. 3 cr.

**YEAR I – Third Semester**
†HFT 1000 Introduction to Hospitality Industry Management .................................................. 3 cr.
†HUN 2201 Fundamentals of Human Nutrition ................................................................. 3 cr.
Electives (Any FSS course) ....................................................................................... 2 cr.

**YEAR II – First Semester**
FSS 1248C Food Specialties II (Garde Manger I) .......................................................... 3 cr.
HFT 2840 Maitre D’ and Dining Room ........................................................................... 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**NOTE:** Coursework may be applied to the two-year AS degree Culinary Management program.

**CCC • Database Administrator**
**CCC.DB.ADMIN (15 Credit Hours)**
This certificate prepares students for jobs such as a junior or entry-level database administrator.

**Program Required Courses**

**YEAR I – First Semester**
* †CGS 2541 Database Design ................................................................................... 3 cr.

**YEAR I – Second Semester**
†CTS 2440 Database Programming – SQL ................................................................. 3 cr.
†CTS 2441 Database Administration I .......................................................................... 3 cr.

**YEAR I – Third Semester**
CTS 2442 Database Administration II ......................................................................... 3 cr.
CTS 2445 Database Programming – Advanced .......................................................... 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

*May require additional coursework.

**NOTE:** Coursework may be applied to the two-year AS Database Technology program.

**CCC • Digital Forensics**
**CCC.DIG.FOR (30 Credit Hours)**

**Program Required Courses**

**YEAR I – First Semester**
* †CET 1172C PC Upgrading and Repair: Hardware ................................................... 3 cr.
* †CTS 1305 Introduction to Networking ..................................................................... 3 cr.

**YEAR I – Second Semester**
†CNT 1401 Introduction to Network Security ............................................................. 3 cr.
†CTS 1106 Introduction to Unix .................................................................................. 3 cr.

**YEAR I – Third Semester**
†CGS 1761 Computer Operating Systems ................................................................. 3 cr.
†CGS 2091 Information Technology: Ethical and Legal Ethics Issues ................................. 3 cr.

**YEAR II – First Semester**
CIS 2359C Information Assurance – Network Systems ............................................... 3 cr.
CIS 2381C Computer Forensics and Incident Response ............................................... 3 cr.

**YEAR II – Second Semester**
CIS 2352C Information Assurance – Local Systems ..................................................... 3 cr.
CIS 2353 Security Management and Penetration Testing ............................................. 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

*May require additional coursework.

**NOTE:** Coursework may be applied to the two-year AS Network Systems Technology program.
CCC • Digital Media/Multimedia Instructional Technology
CCC.MMT.IT (15 Credit Hours)

This certificate prepares students for initial employment as an instructional developer, instructional media integrator, or instructional media specialist.

Program Required Courses

YEAR I – First Semester
*†CGS 1577  Presentation Systems ................................................................................................................ 3 cr.
*†CGS 1871  Multimedia Authoring I........................................................................................................... 3 cr.

YEAR I – Second Semester
*†CGS 2820  Web Authoring – HTML.......................................................................................................... 3 cr.
*†CGS 2821  Graphics Design for Multimedia and Internet............................................................................ 3 cr.

YEAR I – Third Semester
*‡EME 2040  Introduction to Education Technology .................................................................................... 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

*May require additional coursework.

NOTE: Coursework may be applied to the two-year AS degree Digital Media/Multimedia Technology program.

CCC • Digital Media/Multimedia Production
CCC.MMT.PROD (15 Credit Hours)

This certificate prepares students for initial employment as a videographers or video editors.

Program Required Courses

YEAR I – First Semester
*†CGS 1577  Presentation Systems ................................................................................................................ 3 cr.
*†CGS 1871  Multimedia Authoring I........................................................................................................... 3 cr.
*†CGS 2821  Graphics Design for Multimedia and Internet............................................................................ 3 cr.

YEAR I – Second Semester
CGS 2876  Digital Audio/Video Design ................................................................................................... 3 cr.
CGS 2877  Digital Animation Design ........................................................................................................ 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

*May require additional coursework.

NOTE: Coursework may be applied to the two-year AS degree Digital Media/Multimedia Technology program.

CCC • Digital Media/Multimedia Video Production
CCC.MMT.VIDEO (12 Credit Hours)

This certificate prepares students for initial employment as a videographers or video editors.

Program Required Courses

YEAR I – First Semester
†CGS 1000  Introduction to Computers and Technology ............................................................................. 3 cr.

YEAR I – Second Semester
†CGS 2821  Graphics Design for Multimedia and Internet............................................................................ 3 cr.
*†CGS 2876  Digital Audio/Video Design ................................................................................................... 3 cr.
*†CGS 2877  Digital Animation Design ........................................................................................................ 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

*Requires additional coursework.

NOTE: Coursework may be applied to the two-year AS degree Digital Media/Multimedia Technology program.
### CCC • Digital Media/Multimedia Web Production  
**CCC.MMT.WEB (15 Credit Hours)**

This certificate is designed to prepare the student for initial employment as a Web production assistant or Web production artist.

**Program Required Courses**

#### YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*†CGS 2820</td>
<td>Web Authoring – HTML</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*CGS 2821</td>
<td>Graphics Design for Multimedia and Internet</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

#### YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*CGS 2876</td>
<td>Digital Audio/Video Design</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*CGS 2877</td>
<td>Digital Animation Design</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*COP 2830</td>
<td>Scripting for the Web</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

*Requires additional coursework.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**NOTE:** Coursework may be applied to the two-year AS degree Digital Media/Multimedia Technology program.

### CCC • Digital Video Production  
**CCC. DGTL.PROD (12 Credit Hours)**

This certificate allows students to obtain basic training for a specific entry-level job in video production.

**Program Required Courses**

#### YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*†CGS 1871</td>
<td>Multimedia Authoring or *GRA 2111C, Graphic Design</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 1530</td>
<td>Electronic Field Production</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

#### YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 2876</td>
<td>Digital Audio/Video Design</td>
<td>3 cr.</td>
</tr>
<tr>
<td>RTV 2532</td>
<td>Advanced Electronic Field Production</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

*Requires additional coursework.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**NOTE:** Coursework may be applied to the two-year AS degree Digital Television and Media Production program.

### CCC • Drafting  
**CCC.ADCT.DRAFT (24 Credit Hours)**

This certificate provides the students with the practical skills necessary to accept the challenges of a construction drafting career. Successful certificate holders may find employment as a draftsperson in architects, engineers, or contractors offices; governmental agencies, corporate planning departments or other private industries.

**Program Required Courses**

#### YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCN 1250</td>
<td>Introduction to Graphic Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>BCN 2272</td>
<td>Blueprint Reading</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*TAR 2053</td>
<td>Introduction to Computer-Aided Design and Drafting</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

#### YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC 2461</td>
<td>Materials and Methods I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>TAR 1170C</td>
<td>B.I.M. I Revit Residential</td>
<td>3 cr.</td>
</tr>
<tr>
<td>*TAR 2054</td>
<td>Computer Aided Design and Drafting</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

#### YEAR II – First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCN 1210</td>
<td>Construction Materials and Processes</td>
<td>3 cr.</td>
</tr>
<tr>
<td>TAR 1171C</td>
<td>B.I.M. II Revit Commercial</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

*May require additional coursework.

**NOTE:** Coursework may be applied to the two-year AS degree Architectural Design and Technology program.
CCC • Early Childhood Education: Administrator
CCC.CHILD.ADM (12 Credit Hours)

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC 1521</td>
<td>Early Childhood Center Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EEC 2732</td>
<td>Health, Safety and Nutrition for Young Children</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC 2527</td>
<td>Legal and Financial Issues in Child Care</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†ENT 1000</td>
<td>Introduction to Entrepreneurship</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Early Childhood Education program.

CCC • Early Childhood Education: Preschool
CCC.CHILD.PRE (12 Credit Hours)

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC 1721</td>
<td>Physical Development in the Early Childhood Setting</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EEC 2732</td>
<td>Health, Safety and Nutrition for Young Children</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC 1603</td>
<td>Child Guidance</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EEC 2270</td>
<td>Meeting Special Needs of Children in Groups</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Early Childhood Education program.

CCC • Electronics Technician
CCC.EET (31 Credit Hours)

This program prepares individuals for employment as electrical and electronics technicians, electronic engineering technicians, or in related occupations in electronics. This program includes the Florida core electronics competencies as identified in the electronics industry. Graduates of this program will be able to assemble, install, operate, maintain, troubleshoot and repair electronic equipment used in industry.

Program Required Courses

YEAR I – First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 1112C</td>
<td>Basic Digital Systems</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EET 1036C</td>
<td>Basic AC and DC</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EET 1083C</td>
<td>Electronics Orientation</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†MAC 1105</td>
<td>College Algebra</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 2113C</td>
<td>Digital Systems Analysis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EET 1037C</td>
<td>Circuit Analysis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EET 1141C</td>
<td>Solid State Devices</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

YEAR I – Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 2335C</td>
<td>Total Microcomputer Systems</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EET 1142C</td>
<td>Solid State Circuits</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

*Select 4 credit hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 1123C</td>
<td>Introduction to Microprocessors/Microcontrollers</td>
<td>3 cr.</td>
</tr>
<tr>
<td>†CGS 1510</td>
<td>Spreadsheet Applications</td>
<td>1 cr.</td>
</tr>
<tr>
<td>†CGS 1540</td>
<td>Database Management</td>
<td>1 cr.</td>
</tr>
<tr>
<td>EET 2155C</td>
<td>Linear Integrated Circuits</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.
NOTE: Coursework may be applied to the two-year AS degree in Electronics Engineering Technology.

CCC • Engineering Technology Support Specialist
CCC.ET.SUP.SPEC (18 Credit Hours)

This certificate prepares students for entry level technical jobs in high tech production, manufacturing, distribution and engineering research and development facilities. [It is aligned with the MSSC (Manufacturing Skill Standards Council) Certified Production Technician (CPT) certification.

Program Required Courses

YEAR I – First Semester
ETI 1110 Introduction to Quality ................................................................. 3 cr.
ETI 1810C Introduction to Electricity and Electronics ........................................ 3 cr.
ETM 1010C Mechanical Measurement and Instrumentation ................................ 3 cr.

YEAR I – Second Semester
ETD 1320C Computer-Aided Drafting for Engineers ........................................ 3 cr.
ETI 1420 Manufacturing Processes and Materials .............................................. 3 cr.
ETI 1701 Industrial Safety .............................................................................. 3 cr.

NOTE: Coursework may be applied to the two-year AS degree Engineering Technology program.

CCC • Entrepreneurship and Innovation
CCC.ENT.INN (12 Credit Hours)

This program provides students the fundamental skills necessary to start and operate their own businesses including rapid learning through active scientific experimentation. The program focuses on the development of an entrepreneurial mindset, a way of thinking that enhances problem solving, creativity, critical thinking, communication and collaboration. After completion of this program, a student may obtain employment by launching a business venture, working for any business in any industry, and/or proceed toward completion of an Associate in Science Business Administration Entrepreneurship Specialization or an Associate in Arts transfer track in Entrepreneurship.

Program Required Courses

YEAR I – First Semester
†ENT 1000 Introduction to Entrepreneurship .................................................. 3 cr.
ENT 1031 Entrepreneurship Marketing and Sales .............................................. 3 cr.

YEAR I – Second Semester
†ENT 1411 Small Business Accounting and Finance ........................................ 3 cr.
ENT 1012 Entrepreneurship Management ..................................................... 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

CCC • Event Planning Management
CCC.HFT.EVNT (24 Credit Hours)

This program prepares students for immediate employment in the hospitality industry with employable skills in the events planning area of hotels, resorts, convention centers, cruise ships and other hospitality-related areas. This technical certificate can help prepare students for the CSEP (Certified Special Events Professional) certification exam.

Program Required Courses

YEAR I – First Semester
FSS 2100 Menu Development and Marketing .................................................... 3 cr.
†HFT 1000 Introduction to Hospitality Industry Management .......................... 3 cr.
HFT 2210 Supervisory Development ................................................................ 3 cr.
HFT 2600 Hospitality Industry Law .................................................................. 3 cr.
HFT 2750 Meeting, Convention and Exposition Industry ............................... 3 cr.

YEAR I – Second Semester
†ECO 2013 Principles of Macroeconomics or †ECO 2023, Principles of Microeconomics .................. 3 cr.
HFT 1790 The Event Industry ........................................................................... 3 cr.
HFT 2840 Maître D’ and Dining Room Service .............................................. 3 cr.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree in Hospitality and Tourism Management.

**CCC • Fire Officer Supervisor**
**CCC.FIRE.OFF.SUP (12 Credit Hours)**

Program Required Courses

**YEAR I – First Semester**

- FFP 1710 Company Officer .................................................................................................................................. 3 cr.
- FFP 2120 Fire Service Building Construction .................................................................................................. 3 cr.

**YEAR I – Second Semester**

- FFP 1810 Fire Fighting Tactics and Strategy I ................................................................................................... 3 cr.
- FFP 2740 Fire Service Course Delivery ........................................................................................................... 3 cr.

**CCC • Food and Beverage Management**
**CCC.FOOD.BEV.MGT (31 Credit Hours)**

This certificate provides a program of study designed to prepare students for employment as supervisors and managers in the food and beverage sectors of the hospitality industry.

Program Required Courses

**YEAR I – First Semester**

- FOS 1201 Sanitation and Safety Management .................................................................................................... 2 cr.
- FSS 1223C Food Preparation for Managers ...................................................................................................... 4 cr.
- †HFT 1000 Introduction to Hospitality Industry Management .............................................................................. 3 cr.

**YEAR I – Second Semester**

- FSS 1500 Food and Beverage Control ............................................................................................................. 3 cr.
- FSS 2120 Food Purchase and Storage ................................................................................................................ 3 cr.
- HFT 2840 Maître D’ and Dining Room Service .................................................................................................. 3 cr.

**YEAR I – Third Semester**

- †ECO 2023 Principles of Microeconomics .......................................................................................................... 3 cr.
- †SPC 1006 Speech Improvement ......................................................................................................................... 1 cr.

**YEAR II – First Semester**

- HFT 2210 Supervisory Development ................................................................................................................ 3 cr.
- HFT 2600 Hospitality Industry Law .................................................................................................................... 3 cr.
- HFT 2750 Meeting, Convention and Exposition Industry .................................................................................. 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Restaurant Management program.

**CCC • Food and Beverage Operations**
**CCC. FOOD.BEV.OP (18 credit hours)**

Program Required Courses

**YEAR I – First Semester**

- FOS 1201 Safety and Sanitation Management .................................................................................................... 2 cr.
- FSS 2100 Menu Development and Marketing .................................................................................................... 3 cr.
- HFT 2210 Supervisory Development ................................................................................................................ 3 cr.
- HFT 2600 Hospitality Law ................................................................................................................................... 3 cr.

**YEAR I – Second Semester**

- †CGS 1107 Introduction to Computers ................................................................................................................ 1 cr.
- FSS 2120 Food Purchase and Storage ................................................................................................................ 3 cr.
- HFT 2840 Maître D’ and Dining Room Service .................................................................................................. 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.
NOTE: Coursework may be applied to the two-year AS degree Restaurant Management program.
CCC • Game Design and Development - Authoring
CCC.MMT.AUTH (12 Credit Hours)

This certificate is designed to prepare students for initial employment as a digital media/multimedia author.

Program Required Courses

YEAR I – First Semester
*†CAP 1023 Introduction to Game Development................................................................. 3 cr.
*CGS 2827 Advanced Graphics for Multimedia and Internet .............................................. 3 cr.

YEAR I – Second Semester

Specified Electives.............................................................................................................. 6 cr.

*Select 6 specified elective credits from the following list:
†CAP 2042 Game Design and Development - Modeling................................................. 3 cr.
†CAP 2043 Game Design and Development - Rigging ....................................................... 3 cr.
CAP 2041 Game Design and Development – Animation ............................................... 3 cr.
CAP 2044 Game Design and Development – Special Effects ........................................ 3 cr.

*Requires additional coursework.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Digital Media/Multimedia Technology program.

CCC • Graphic Design Production
CCC.GRA.PROD (27 Credit Hours)

Program Required Courses

YEAR I – First Semester
ARH 1051 Art History II ....................................................................................................... 3 cr.
ART 1201C Visual Studies Foundations I ............................................................................... 3 cr.
ART 1300C Drawing I ........................................................................................................... 3 cr.
PGY 2401C Photography I ..................................................................................................... 3 cr.

YEAR I – Second Semester
GRA 2111C Graphic Design ................................................................................................. 3 cr.
PGY 2801C Digital Photography I ......................................................................................... 3 cr.

YEAR I – Third Semester
ART 2600C Digital Art .......................................................................................................... 3 cr.
GRA 2156C Digital Illustration .............................................................................................. 3 cr.
GRA 2206C Introduction to Typography ................................................................................ 3 cr.

NOTE: Coursework may be applied to the two-year AA Graphic Design Transfer Track.

CCC • Help Desk Support Technician
CCC.HELP.DESK (18 Credit Hours)

This certificate prepares students for jobs such as help desk technician, junior or entry-level technical support, IT help desk support technician, or desktop support technician.

Program Required Courses

YEAR I – First Semester
CGS 1000 Introduction to Computers and Technology .................................................... 3 cr.

YEAR I – Second Semester
CET 1172C PC Upgrading and Repair: Hardware ................................................................. 3 cr.
CET 1174C PC Upgrading and Repair: Software ................................................................. 3 cr.

YEAR I – Third Semester
†CTS 1305 Introduction to Networking .................................................................................. 3 cr.

YEAR II – First Semester
CNT 1401 Introduction to Network Security ........................................................................ 3 cr.
YEAR II – Second Semester

CTS 1303 MS Beginning Server I .............................................................................................................. 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS Network Systems Technology program.

CCC • Homeland Security Specialist
CCC.HSS (9 Credit Hours)

Program Required Courses

YEAR I – First Semester

†DSC 1003 Introduction to Homeland Security ........................................................................................ 3 cr.

Select 6 credit hours from the following:

†DSC 1002 Introduction to Terrorism ........................................................................................................ 3 cr.
†DSC 2590 Intelligence Analysis and Security Management .................................................................. 3 cr.
†DSC 2033 Introduction to Terrorist Tactics and Weapons ..................................................................... 3 cr.
DSC 2242 Transportation and Border Security ....................................................................................... 3 cr.
†DSC 2570 Introduction to Cyber-Terrorism ............................................................................................ 3 cr.
DSC 2932 Seminar in Homeland Security and Terrorism ..................................................................... 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS Criminology and Criminal Justice Studies program. For more information visit www.hccfl.edu/cjt.

CCC • Human Resource Management
CCC.OSS.HRS (21 Credit Hours)

This program teaches students the process of accomplishing administrative support functions for human resources managers in the areas of employee benefits, recruitment and staffing, training and development, salary and compensation, employee relations, and safety and worker’s compensation.

Students are prepared for such positions as human resource assistant, employment interviewer, labor relations assistant, and human resource specialist.

Program Required Courses

YEAR I – First Semester

†GEB 1011 Introduction to Business........................................................................................................... 3 cr.
MAN 2021 Principles of Management ....................................................................................................... 3 cr.
OST 1100C Keyboarding and Document Processing ................................................................................ 3 cr.
OST 2854C Office Applications for Business ............................................................................................. 3 cr.

YEAR I – Second Semester

MAN 2300 Introduction to Human Resource Management .................................................................. 3 cr.
OST 1335 Business Communications ....................................................................................................... 3 cr.
OST 2357 Electronic Records Management ............................................................................................. 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Office Administration program.

CCC • Internet Services Technology Web Development Specialist - Designer
CCC.WEB.OPT1 (35 Credit Hours)

This program prepares students for internet-related jobs such as Web designer, site designer or internet architect, and transfers into the associate degree program titled Internet Services Technology-Web Designer.

Program Required Courses

YEAR I – First Semester

†CGS 1000 Introduction to Computers and Technology .............................................................................. 3 cr.
*‡CGS 2820 Web Authoring - HTML ........................................................................................................ 3 cr.

YEAR I – Second Semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1871</td>
<td>Multimedia Authoring I.</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2821</td>
<td>Graphics Design for Multimedia and Internet</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2822</td>
<td>Web Site Creation</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2821</td>
<td>Graphics Design for Multimedia and Internet</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2822</td>
<td>Web Site Creation</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 2585</td>
<td>Desktop Internet Publishing</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2786</td>
<td>Web 2.0 Applications</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2876</td>
<td>Desktop Audio/Video Design/Animation</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 2827</td>
<td>Advanced Graphics Design for Multimedia and Internet</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2877</td>
<td>Digital Animation Design</td>
<td>3 cr.</td>
</tr>
<tr>
<td>COP 2830</td>
<td>Scripting for the Web</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

Select any 2 credit hours from any of the following courses prefixes: CAP, CEN, CET, CGS, CIS, CNT, COP, CTS

*Permission of instructor required for concurrent enrollment with prerequisite.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**CCA • Internet Services Technology Web Development Specialist - Developer**

**CCC.WEB.OPT2 (35 Credit Hours)**

This program prepares students for internet-related jobs such as Webmaster, Web developer, site developer and internet programmer.

Program Required Courses

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1000</td>
<td>Introduction to Computers and Technology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2541</td>
<td>Database Design</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2820</td>
<td>Web Authoring - HTML</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR I – Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1103</td>
<td>Project Management</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CGS 2822</td>
<td>Web Site Creation</td>
<td>3 cr.</td>
</tr>
<tr>
<td>COP 1000</td>
<td>Programming Logic</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 1812</td>
<td>Introduction to XML</td>
<td>3 cr.</td>
</tr>
<tr>
<td>COP 2836</td>
<td>Database-Driven Web Program – Server</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CTS 2440</td>
<td>Database Programming – SQL</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 2830</td>
<td>Scripting for the Web</td>
<td>3 cr.</td>
</tr>
<tr>
<td>COP 2833</td>
<td>Database-Driven Web Program – Client</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

Select 2 credit hours from any of the following courses prefixes: CAP, CEN, CET, CGS, CIS, CNT, COP, CTS

*Permission of instructor required for concurrent enrollment with prerequisite.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**CCA • Laser and Photonics Technician**

**CCC.LAS.TECH (12 Credit Hours)**

Program Required Courses

**YEAR I – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 1036C</td>
<td>Basic AC and DC</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR I – Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 1141C</td>
<td>Solid State Devices</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**YEAR II – First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETS 2210C</td>
<td>Introduction to Photonics</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>
YEAR II – Second Semester  
ETS 2230C Introduction to Lasers ............................................................................................................... 3 cr.  

NOTE: Coursework may be applied to the two-year AS degree Electronics Engineering Technology program.

CCC • Lean Manufacturing  
CCC.ETM (12 Credit Hours)  
This certificate prepares students for engineering technology support positions dealing with quality systems and their implementation in high tech production, manufacturing, distribution, and engineering research and development facilities.

Program Required Courses  
YEAR I – First Semester  
ETI 1110 Introduction to Quality ............................................................................................................. 3 cr.  
ETM 1010C Mechanical Measurement and Instrumentation ..................................................................... 3 cr.  

YEAR I – Second Semester  
ETI 1622 Concepts of Lean and Six Sigma ............................................................................................. 3 cr.  
ETI 1644 Production and Inventory Control ........................................................................................... 3 cr.  

NOTE: Coursework may be applied to the two-year AS degree Engineering Technology program.

CCC • Logistics and Transportation Specialist  
CCC.LOG.TRAN.SPEC (18 Credit Hours)  
This program is designed to develop the student’s general employability by improving work attitudes, communication, critical thinking, technical skills, problem-solving skills and occupation-specific skills relative to supply chain management. This program prepares students for employment in roles such as: Integrated Logistics Planner, Purchasing Analyst, Cargo Scheduler, International Logistics Clerk, Quality Associate, Inventory Control Manager, Logistics Analyst, Junior Buyer, Customer Service Associate, Materials Analyst, Material Manager, Supply Manager, Dispatcher, Supply Technician, Operations Supervisor, Order Fulfillment Associate, Transportation Coordinator, Distribution Planning Analyst, Packing Supervisor, Transportation Clerk, Cargo Sales, Receiving/Shipping Supervisor, Transportation Specialist, Procurement Clerk, Product Tracking and Tracking Clerk, Warehouse Shift Supervisor, Import/Export Clerk, and Purchasing Agent.

Program Required Courses  
YEAR I – First Semester  
ETI 1110 Introduction to Quality ............................................................................................................. 3 cr.  
SCM 1010 Introduction to Supply Chain Management .............................................................................. 3 cr.  
SCM 2270 Transportation and Distribution ............................................................................................. 3 cr.  

YEAR I – Second Semester  
MAN 2500 Operations Management ........................................................................................................ 3 cr.  
SCM 2150 Purchasing and Inventory Management ................................................................................ 3 cr.  
SCM 2230 Warehouse Management ........................................................................................................ 3 cr.  

CCC • Mechatronics  
CCC.MECH (30 Credit Hours)  
This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills. It provides 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, and knowledge of all fundamental aspects of Mechatronics. The content includes but is not limited to instruction in maintenance techniques, computer aided drafting/design skills, technical communications, maintenance and operation of various industrial components, material handling protocols, and proper usage of tools and instrumentation.

Program Required Courses  
YEAR I – First Semester  
ETD 1320C Computer Aided Drafting for Engineers ................................................................................ 3 cr.  
ETI 1701 Industrial Safety ........................................................................................................................ 3 cr.  
ETI 1810C Introduction to Electricity and Electronics ................................................................................ 3 cr.  
ETM 1010C Mechanical Measurement and Instrumentation ..................................................................... 3 cr.  

YEAR I – Second Semester  
ETI 1420 Manufacturing Processes and Materials .................................................................................... 3 cr.  

HILLSBOROUGH COMMUNITY COLLEGE CATALOG 2020-2021
ETI 1843 Motors and Controls ................................................................. 3 cr.
ETS 1542 Introduction to Programmable Logic Controllers ............... 3 cr.
ETS 2604 Robotics Application ............................................................ 3 cr.

YEAR II – First Semester
ETM 2315 Hydraulic and Pneumatic Systems ...................................... 3 cr.
ETS 2527 Electromechanical components and Mechanisms ............... 3 cr.

NOTE: Coursework may be applied to the two-year AS degree Engineering Technology program.

CCC • Medical Information: Medical Coder
CCC.MED.CODE (37 Credit Hours)
This program prepares students to be members of a health information service team. Coursework focuses on using a classification system to assign code numbers and letters to each symptom, diagnosis, disease, procedure, and operation on a patient’s chart. A high degree of accuracy, critical thinking skills, a working knowledge of medical terminology, and skill development in coding and computer software are required. Career opportunities include hospital inpatient/outpatient coding specialist, reimbursement specialist, coding abstracting or insurance claim analyst, managed-care coding specialist, procedural coding specialist, and physician’s office or clinical coding specialist.

Program Required Courses

YEAR I – First Semester
HIM 1112C Electronic Health Records .................................................. 2 cr.
HIM 1453 Anatomy and Physiology for Medical Coding .................... 4 cr.
†HSC 1531 Medical Terminology ............................................................ 3 cr.
OST 2854C Office Applications for Business ........................................ 3 cr.

YEAR I – Second Semester
HIM 1000 Introduction to Health Information Management ............. 3 cr.
HIM 1433 Principles of Disease ............................................................. 4 cr.
†HIM 1442 Pharmacology ................................................................. 2 cr.
HIM 2275C Medical Billing and Insurance I ....................................... 3 cr.

YEAR I – Third Semester
HIM 2253 CPT Coding ................................................................. 3 cr.
HIM 2724 ICD-10 Coding ................................................................. 4 cr.

YEAR II – First Semester
HIM 2283 Advanced Coding ............................................................... 3 cr.
HIM 2941 Clinical Coding Practicum .................................................. 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Office Administration program.

CCC • Medical Office Management - Management
CCC.OA.MED.MAN (34 Credit Hours)
Prepares individuals to support management by expediting and facilitating the maintenance and production of correspondence and records; to transcribe recordings, telecommunicate, maintain office budget, prepare correspondence and resolutions; to file and maintain documents; and to assist in the administration of policy.

Program Required Courses

YEAR II – First Semester
HIM 1000 Introduction to Health Information Management ............. 3 cr.
†HSC 1531 Medical Terminology ............................................................ 3 cr.
OST 2854C Office Applications for Business ........................................ 3 cr.

YEAR I – Second Semester
APA 1111 Basic Accounting ................................................................. 3 cr.
HIM 1112C Electronic Health Records .................................................. 2 cr.
OST 1335 Business Communications .................................................. 3 cr.

YEAR I – Third Semester
MAN 2021 Principles of Management .................................................. 3 cr.
OST 1100C Keyboarding and Document Processing ........................... 3 cr.
OST 2135 Medical Office Procedures.............................................................. 3 cr.

YEAR II – First Semester
HIM 2272C Billing and Insurance II ...................................................... 3 cr.
*HIM 2275C Medical Billing and Insurance I ........................................... 3 cr.
Electives .................................................................................................. 2 cr.

Select 2 credit hours from the following:
CGS 1510 Spreadsheet Applications I ....................................................... 1 cr.
CGS 1540 Database Applications .......................................................... 1 cr.
CGS 1554 Internet Basics ...................................................................... 1 cr.
CGS 2511 Spreadsheet Applications II .................................................. 1 cr.

*Requires additional coursework.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Office Administration program.

CCC • Medical Office Management - Billing
CCC.OA.MED.BIL (34 Credit Hours)
Prepares individuals to support management by expediting and facilitating the maintenance and production of correspondence and records; to transcribe recordings, telecommunicate, maintain office budget, prepare correspondence and resolutions; to file and maintain documents; and to assist in the administration of policy.

Program Required Courses

YEAR I – First Semester
HIM 1000 Introduction to Health Information Management.................. 3 cr.
†HSC 1531 Medical Terminology ........................................................... 3 cr.
OST 2854C Office Applications for Business ....................................... 3 cr.

YEAR I – Second Semester
HIM 1112C Electronic Health Records ................................................. 2 cr.
HIM 1453 Anatomy and Physiology for Medical Coding ..................... 4 cr.
OST 1335 Business Communications .................................................. 3 cr.

YEAR I – Third Semester
APA 1111 Basic Accounting ................................................................. 3 cr.
HIM 2724 ICD-10 Coding ..................................................................... 4 cr.
HIM 2253 CPT Coding ......................................................................... 3 cr.

YEAR II – First Semester
*HIM 2275C Medical Billing and Insurance I ....................................... 3 cr.
HIM 2272C Billing and Insurance II ...................................................... 3 cr.

*Requires additional coursework.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Office Administration program.

CCC • Microcomputer Repairer/Installer
CCC.CET.REPAIR (15 Credit Hours)
This certificate is designed to prepare students for employment as computer engineering technicians in electronics/information technology.

Program Required Courses

YEAR I – First Semester
CET 1112C Basic Digital Systems ............................................................ 3 cr.
EET 1036C Basic AC and DC ................................................................. 3 cr.

YEAR I – Second Semester
CET 2113C Digital Systems Analysis ....................................................... 3 cr.
EET 1141C Solid State Devices ................................................................. 3 cr.

YEAR I – Third Semester
CET 235C  Total Microcomputer Systems................................................................................................. 3 cr.

NOTE: Coursework may be applied to the two-year AS degree Computer Engineering Technology program.
CCC • Motion Picture Production Management  
CCC.MOV.PROD.MGMT (16 Credit Hours)  
Program Required Courses  
YEAR I – First Semester  
FIL  1000  Introduction to Film ................................................................. 3 cr.  
FIL  1420C  Motion Media I ................................................................. 3 cr.  
YEAR I – Second Semester  
FIL  2010  Films of Fantasy and Imagination ................................................................. 3 cr.  
RTV  1530  Electronic Field Production ................................................................. 3 cr.  
YEAR I – Third Semester  
FIL  2905  Directed Independent Study: Film ................................................................. 3 cr.  
FIL  2931  Careers in Film and Video ................................................................. 1 cr.  
NOTE: Coursework may be applied to the two-year AS degree Digital Television and Media Production.

CCC • Network Enterprise Administration  
CCC.NST.ENT.ADM (27 Credit Hours)  
This certificate prepares students for such jobs as junior or entry-level systems administrator, junior or entry-level network engineer.  
Program Required Courses  
YEAR I – First Semester  
\*CET  1172C  PC Upgrading and Repair: Hardware ................................................................. 3 cr.  
\*\†CTS  1305  Introduction to Networking ................................................................. 3 cr.  
YEAR I – Second Semester  
CET  1174C  PC Upgrading and Repair: Software ................................................................. 3 cr.  
\*CTS  1303  MS Beginning Server I ................................................................. 3 cr.  
YEAR I – Third Semester  
\†CNT  1401  Introduction to Network Security ................................................................. 3 cr.  
\†CTS  1306  MS Beginning Server II ................................................................. 3 cr.  
YEAR II – First Semester  
\†CNT  2510  Wireless Networking ................................................................. 3 cr.  
\†CTS  1302  MS Intermediate Server ................................................................. 3 cr.  
YEAR II – Second Semester  
CTS  1328  MS Advanced Server ................................................................. 3 cr.  

*May require additional coursework.  
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.  
NOTE: Coursework may be applied to the two-year AS degree Network Systems Technology program.

CCC • Network Infrastructure  
CCC.NST.INF (21 Credit Hours)  
This certificate prepares students for jobs such as junior or entry-level network infrastructure engineer, junior or entry-level infrastructure specialist.  
Program Required Courses  
YEAR I – First Semester  
\*\†CTS  1305  Introduction to Networking ................................................................. 3 cr.  
YEAR I – Second Semester  
CET  1600  Cisco Network Fundamentals ................................................................. 3 cr.  
\†CNT  1401  Introduction to Network Security ................................................................. 3 cr.  
YEAR I – Third Semester  
CET  1610  Cisco Switching, Routing, and Wireless Essentials ................................................................. 3 cr.
†CNT 2510 Wireless Networking ................................................................................................................ 3 cr.

YEAR II – First Semester
CET 2615 Cisco Enterprise Networking, Security, and Automation ................................................... 3 cr.
CIS 2772 Cybersecurity Operations Fundamentals .............................................................................. 3 cr.
*May require additional coursework.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Network Systems Technology program.

CCC • Network Security/Cyber-Security: Cisco
CCC.SEC.CYB.CISCO (30 Credit Hours)
This certificate prepares students for jobs such as junior or entry-level Cisco security technician, junior or entry-level network security technician.

Program Required Courses

YEAR I – First Semester
CET 1600 Cisco Network Fundamentals ................................................................................................. 3 cr.
*†CNT 1401 Introduction to Network Security ........................................................................................... 3 cr.

YEAR I – Second Semester
*CET 1610 Cisco Switching, Routing, and Wireless Essentials .............................................................. 3 cr.
CIS 2352C Information Assurance – Local Systems ................................................................................ 3 cr.
CIS 2353 Security Management and Penetration Testing .................................................................... 3 cr.

YEAR I – Third Semester
CET 2615 Cisco Enterprise Networking, Security, and Automation ................................................... 3 cr.
†CGS 2091 Information Technology: Ethical and Legal Ethics Issues ................................................... 3 cr.

YEAR II – First Semester
CIS 2772 Cybersecurity Operations Fundamentals .............................................................................. 3 cr.
CIS 2359C Information Assurance – Network Systems .......................................................................... 3 cr.
CIS 2381C Computer Forensics and Incident Response ......................................................................... 3 cr.
*Permission of instructor required for concurrent enrollment with prerequisite.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Network Systems Technology program.

CCC • Network Security/Cyber-Security: Windows
CCC.SEC.CYB.WINDOWS (30 Credit Hours)
This certificate prepares students for jobs such as junior or entry-level Windows Server systems engineer.

Program Required Courses

YEAR I – First Semester
*†CNT 1401 Introduction to Network Security ........................................................................................... 3 cr.

YEAR I – Second Semester
CIS 2352C Information Assurance – Local Systems ................................................................................ 3 cr.
CIS 2353 Security Management and Penetration Testing .................................................................... 3 cr.
*CIS 1303 MS Beginning Server I .............................................................................................................. 3 cr.

YEAR I – Third Semester
†CGS 2091 Information Technology: Ethical and Legal Ethics Issues ................................................... 3 cr.
†CTS 1306 MS Beginning Server II ............................................................................................................. 3 cr.

YEAR II – First Semester
CIS 2359C Information Assurance – Network Systems .......................................................................... 3 cr.
CIS 2381C Computer Forensics and Incident Response ......................................................................... 3 cr.
*CTS 1302 MS Intermediate Server ........................................................................................................... 3 cr.

YEAR II – Second Semester
CTS 1328 MS Advanced Server ................................................................................................................ 3 cr.
*Requires additional coursework.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Network Systems Technology program.

**CCC • Network Security/Cyber-Security: Unix/Linux**

CCC.SEC.CYB.UL (30 Credit Hours)

This certificate prepares students for jobs such as junior or entry-level Unix Security technician, junior or entry-level Linux Security technician.

Program Required Courses

**YEAR I – First Semester**

*†CNT 1401 Introduction to Network Security ........................................................................................... 3 cr.
*†CTS 1106 Introduction to Unix ........................................................................................................................ 3 cr.

**YEAR I – Second Semester**

CIS 2352C Information Assurance – Local Systems ................................................................................ 3 cr.
CIS 2353 Security Management and Penetration Testing .............................................................................. 3 cr.
CTS 2301C Unix/Linux Administration I ........................................................................................................ 3 cr.

**YEAR I – Third Semester**

†CGS 2091 Information Technology: Ethical and Legal Ethics Issues ................................................... 3 cr.
CTS 2322 Unix/Linux Administration II ................................................................................................ 3 cr.
CTS 2333 Unix/Linux Networking ............................................................................................................. 3 cr.

**YEAR II – First Semester**

CIS 2359C Information Assurance – Network Systems .......................................................................... 3 cr.
CIS 2381C Computer Forensics and Incident Response ............................................................................... 3 cr.

YEAR II – Second Semester

†CNT 1401 Introduction to Network Security ........................................................................................... 3 cr.
†CTS 1302 MS Intermediate Server .............................................................................................................. 3 cr.

YEAR II – Second Semester

CTS 1328 MS Advanced Server ...................................................................................................................... 3 cr.

*Requires additional coursework.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**NOTE**: Coursework may be applied to the two-year AS degree Network Systems Technology program.

**CCC • Network Server Administration**

CCC.NST.SVR.ADM (24 Credit Hours)

This certificate prepares students for jobs such as junior or entry-level IT support and administration, junior or entry-level Windows Server administrator, junior or entry-level network administrator.

Program Required Courses

**YEAR I – First Semester**

*†CET 1172C PC Upgrading and Repair: Hardware .................................................................................... 3 cr.
*†CTS 1305 Introduction to Networking ........................................................................................................... 3 cr.

**YEAR I – Second Semester**

CET 1174C PC Upgrading and Repair: Software ............................................................................................ 3 cr.
CTS 1303 MS Beginning Server I ..................................................................................................................... 3 cr.

**YEAR I – Third Semester**

†CTS 1306 MS Beginning Server II .................................................................................................................. 3 cr.

**YEAR II – First Semester**

†CNT 1401 Introduction to Network Security ........................................................................................... 3 cr.
†CTS 1302 MS Intermediate Server .............................................................................................................. 3 cr.

**YEAR II – Second Semester**

CTS 1328 MS Advanced Server ...................................................................................................................... 3 cr.

*Requires additional coursework.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**NOTE**: Coursework may be applied to the two-year AS degree Network Systems Technology program.
CCC • Network Support Technician
CCC.NST.SPT.TECH (21 Credit Hours)
This certificate prepares students for such jobs as junior or entry-level network support technician, junior or entry-level network specialist, help desk technician, or support technician.

Program Required Courses

YEAR I – First Semester
†CGS 1000 Introduction to Computers and Technology ................................................................. 3 cr.

YEAR I – Second Semester
*CTS 1303 MS Beginning Server I .............................................................................................................. 3 cr.
†CTS 1305 Introduction to Networking .................................................................................................... 3 cr.

YEAR I – Third Semester
CET 1172C PC Upgrading and Repair: Hardware.................................................................................... 3 cr.
CTS 1306 MS Beginning Server II .................................................................................................. 3 cr.

YEAR II – First Semester
†CNT 1401 Introduction to Network Security........................................................................................... 3 cr.
CET 1174C PC Upgrading and Repair: Software ...................................................................................... 3 cr.

*May require additional coursework.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Network Systems Technology program.

CCC • Office Management
CCC.OA.OFM (27 Credit Hours)
Program Required Courses

YEAR I – First Semester
APA 1111 Basic Accounting ....................................................................................................................... 3 cr.
GEB 1011 Introduction to Business ........................................................................................................... 3 cr.
OST 1100C Keyboarding and Document Processing ................................................................................ 3 cr.
OST 2854C Office Applications for Business ............................................................................................. 3 cr.

YEAR I – Second Semester
MAN 2021 Principles of Management ....................................................................................................... 3 cr.
OST 1335 Business Communications ..................................................................................................... 3 cr.
OST 2501 Office Administration ............................................................................................................... 3 cr.
SPC 1608 Public Speaking ......................................................................................................................... 3 cr.

YEAR II – First Semester
OST 1813 Desktop Publishing ................................................................................................................... 3 cr.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Office Administration program.

CCC • Office Specialist
CCC.OA.SPEC (18 Credit Hours)
Program Required Courses

YEAR I – First Semester
OST 1100C Keyboarding and Document Processing ............................................................................... 3 cr.
OST 1335 Business Communications ..................................................................................................... 3 cr.
OST 2854C Office Applications for Business ............................................................................................. 3 cr.

YEAR I – Second Semester
APA 1111 Basic Accounting ....................................................................................................................... 3 cr.
OST 1813 Desktop Publishing ................................................................................................................... 3 cr.
OST 2501 Office Administration ............................................................................................................... 3 cr.
†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Office Administration program.

CCC • Office Support
CCC.OA.OS (12 Credit Hours)

Program Required Courses

YEAR I – First Semester
APA 1111 Basic Accounting 3 cr.
OST 1100C Keyboarding and Document Processing 3 cr.
OST 1335 Business Communications 3 cr.
OST 2854C Office Applications for Business 3 cr.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Office Administration program.

CCC • Pneumatics, Hydraulics and Motors for Manufacturing
CCC.MFG.PHM (13 Credit Hours)

This certificate prepares students for engineering technology support positions dealing with facilities operations and maintenance in high tech production, manufacturing, distribution, and engineering research and development facilities.

Program Required Courses

YEAR I – First Semester
ETI 1420 Manufacturing Processes and Materials 3 cr.
ETI 1810C Introduction to Electricity and Electronics 3 cr.
ETI 1843 Motors and Controls 3 cr.

YEAR I – Second Semester
*ETM 2315 Hydraulic and Pneumatics Systems 3 cr.
*ETM 2315L Hydraulic and Pneumatics Systems Laboratory 1 cr.

*May require additional coursework.

NOTE: Coursework may be applied to the two-year AS degree Engineering Technology program.

CCC • Robotics and Simulation
CCC.ROB.SIM (12 Credit Hours)

This certificate is designed to expose students to the basic fundamentals of robotics and simulation and also prepare students for employment as an entry level Robotics and Simulation technician.

Program Required Courses

YEAR I – First Semester
EET 1036C Basic AC and DC 3 cr.

YEAR I – Second Semester
CCT 1123C Introduction to Microprocessors/Microcontrollers 3 cr.
EET 1141C Solid State Devices 3 cr.

YEAR II – First Semester
ETS 1603C Fundamentals of Robotics and Simulation 3 cr.

CCC • Sustainable Design
CCC.ADCT.SUS (19 Credit Hours)

Program Required Courses

YEAR I – First Semester
BCN 2291C Construction Materials Testing 3 cr.
*BCT 2770C Construction Estimating 3 cr.
SUR 2000C Surveying I 3 cr.
TAR 1172C B.I.M. III Revit M.E.P 3 cr.

YEAR I – Second Semester
*ARC 2501 Architectural Structures I 4 cr.
BCN 2939C Construction Capstone..................................................................................................... 3 cr.
*M May required additional coursework.

**CCC • Television Production**
CCC.TV.PROD (12 Credit Hours)

The purpose of this program is to provide basic training for a specific entry-level job in TV production.

Program Required Courses

**YEAR I – First Semester**
RTV 1530 Electronic Field Production............................................................................................... 3 cr.
*RTV 2510 Broadcasting Techniques .................................................................................................. 3 cr.

**YEAR I – Second Semester**
RTV 2512 Advanced Television Studio Production............................................................................... 3 cr.
RTV 2532 Advanced Electronic Field Production.................................................................................. 3 cr.

*Requires additional coursework.

**NOTE:** Coursework may be applied to the two-year AS degree Digital Television and Media Production.

**CCC • Video Editing and Post Production**
CCC.VIDEO.PROD (24 Credit Hours)

This certificate is designed to prepare students for employment in an entry-level position in video editing and post production.

Program Required Courses

**YEAR I – First Semester**
*†CGS 1871 Multimedia Authoring or *GRA 2111C, Graphic Design.................................................... 3 cr.
RTV 1530 Electronic Field Production............................................................................................... 3 cr.
RTV 2000 Introduction to Broadcasting................................................................................................. 3 cr.

**YEAR I – Second Semester**
CGS 2876 Digital Audio/Video Design................................................................................................. 3 cr.
RTV 2510 Broadcasting Techniques ..................................................................................................... 3 cr.
RTV 2532 Advanced Electronic Field Production.................................................................................. 3 cr.

**YEAR I – Third Semester**
RTV 2512 Advanced Television Studio Production............................................................................... 3 cr.
*RTV 1941 Radio and TV Internship I..................................................................................................... 3 cr.

*Requires additional coursework.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

**NOTE:** Coursework may be applied to the two-year AS degree Digital Television and Media Production.

**CCC • Water Quality Technician**
CCC. ENV.WQ.TECH (12 Credit Hours)

This certificate is designed to prepare students for immediate entry into a career in the workforce as a water quality technician.

Program Required Courses

**YEAR I – First Semester**
EVS 1001 Introduction to Environmental Sustainability....................................................................... 3 cr.
EVS 2894C Water Sampling and Analysis I............................................................................................ 5 cr.
*Specified Elective................................................................................................................................. 4 cr.

*Select 4 credit hours from the following:

**EVS 1026 Chemistry and Biology of Natural Waters............................................................................. 4 cr.
EVS 2891 Hydrology and Quality of Water Resources ........................................................................... 4 cr.

**Requires additional coursework.

**NOTE:** Coursework may be applied to the two-year AS degree Environmental Science Technology program.
Postsecondary Adult Vocational Programs

Hillsborough Community College will award a Postsecondary Adult Vocational (PSAV) certificate for completion of a specified course of study designed to prepare individuals for employment. PSAV programs are designed for those students interested in a specific job in business or industry.

PSAV Certificate credit requirements vary in the number of hours required for completion. Courses in these programs are not considered as college credit.

All PSAV programs require students to possess a standard high school diploma or high school equivalency diploma with the following exceptions: Apprenticeship programs, Automotive Collision Technology Technician; Automotive Service Technology; Bail Bond Agent; Diesel Systems Technician, Transit Technician; and Welding Technology.

For additional information about a particular certificate contact a counselor or advisor at one of the campus locations.

**PSAV • Alternative Fuels Technology**
VOC.AUTO.CNG.LPG (750 Clock Hours)

The purpose of this program is to prepare students with the career ready practices in personal safety, engine operation, types of alternative fuels, hybrid, and electric vehicles.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AER 0875</td>
<td>Alternative Fuels Maintenance Technician</td>
<td>300 hr</td>
<td>10.0 cr</td>
</tr>
<tr>
<td>AER 0876</td>
<td>Advanced Alternative Fuels Technician</td>
<td>300 hr</td>
<td>10.0 cr</td>
</tr>
<tr>
<td>AER 0877</td>
<td>CNG Fuels System Inspector</td>
<td>150 hr</td>
<td>5.0 cr</td>
</tr>
</tbody>
</table>

**PSAV • Automotive CNG/LPG Technology**
VOC.ALT.FUEL (1200 Clock Hours)

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AER 0014</td>
<td>Automobile Services Assistor</td>
<td>300 hr</td>
<td>10.0 cr</td>
</tr>
<tr>
<td>AER 0360</td>
<td>Automotive Electrical/Electronic System Technician</td>
<td>300 hr</td>
<td>10.0 cr</td>
</tr>
<tr>
<td>AER 0503</td>
<td>Automotive Engine Performance Technician</td>
<td>300 hr</td>
<td>10.0 cr</td>
</tr>
<tr>
<td>AER 0871</td>
<td>Automotive Compressed Natural Gas Technician</td>
<td>150 hr</td>
<td>5.0 cr</td>
</tr>
<tr>
<td>AER 0872</td>
<td>Automotive Liquid Propane Gas Technician</td>
<td>150 hr</td>
<td>5.0 cr</td>
</tr>
</tbody>
</table>

**PSAV • Automotive Collision Technology Technician**
VOC.ARR.TECH (1400 Clock Hours)

Students in the Automotive Collision Repair and Refinishing program learn automotive painting, body repair, frame straightening, trim and custom painting, tinting, welding, and glass and sheet metal installation.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARR 0022</td>
<td>Damage Analysis and Estimating</td>
<td>75 hr</td>
<td>2.5 cr</td>
</tr>
<tr>
<td>ARR 0112</td>
<td>Automotive Collision Welding, Cutting and Joining</td>
<td>75 hr</td>
<td>2.5 cr</td>
</tr>
<tr>
<td>ARR 0140</td>
<td>Automotive Collision Repair Helper/Assistant</td>
<td>150 hr</td>
<td>5.0 cr</td>
</tr>
<tr>
<td>ARR 0141</td>
<td>Automotive Collision Refinish Technician</td>
<td>450 hr</td>
<td>15.0 cr</td>
</tr>
<tr>
<td>ARR 0295</td>
<td>Structural Repair Technician</td>
<td>350 hr</td>
<td>11.6 cr</td>
</tr>
<tr>
<td>ARR 0312</td>
<td>Non-Structural Damage Repair Technician</td>
<td>300 hr</td>
<td>10.0 cr</td>
</tr>
</tbody>
</table>

**PSAV • Automotive Service Technology**
VOC.AST (1800 Clock Hours)

This program is designed for high school graduates who are interested in automotive technology as a career option or who desire postsecondary vocational training as a means of expanding or enhancing their career opportunities.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AER 0014</td>
<td>Automobile Services Assistor</td>
<td>300 hr</td>
<td>10.0 cr</td>
</tr>
<tr>
<td>AER 0110</td>
<td>Engine Repair Technician</td>
<td>150 hr</td>
<td>5.0 cr</td>
</tr>
<tr>
<td>AER 0172</td>
<td>Automotive Heating and Air Conditioning Technician</td>
<td>150 hr</td>
<td>5.0 cr</td>
</tr>
<tr>
<td>AER 0257</td>
<td>Automatic Transmission and Transaxles Technician</td>
<td>150 hr</td>
<td>5.0 cr</td>
</tr>
<tr>
<td>AER 0274</td>
<td>Manual Transmissions and Drivelines</td>
<td>150 hr</td>
<td>5.0 cr</td>
</tr>
<tr>
<td>AER 0360</td>
<td>Automotive Electrical/Electronic System Technician</td>
<td>300 hr</td>
<td>10.0 cr</td>
</tr>
</tbody>
</table>
**PSAV • Auxiliary Law Enforcement Officer**

VOC.LAWE.AUX (364 Clock Hours)

Graduates are able to serve as a part-time volunteer law enforcement officer. Call the Criminal Justice Training Institute Public Service Program Manager at 253-7697 to obtain an application handbook. The program does have specified admission criteria that must be met for an individual to be considered for admission to an academy.

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJK 0020</td>
<td>CMS Criminal Justice Vehicle Operations</td>
<td>48 hr</td>
<td>1.6 cr.</td>
</tr>
<tr>
<td>CJK 0023</td>
<td>Introduction to Law Enforcement</td>
<td>4 hr</td>
<td>.13 cr.</td>
</tr>
<tr>
<td>CJK 0024</td>
<td>Legal Concepts</td>
<td>20 hr</td>
<td>.66 cr.</td>
</tr>
<tr>
<td>CJK 0025</td>
<td>Patrol and Professional Communication</td>
<td>12 hr</td>
<td>.40 cr.</td>
</tr>
<tr>
<td>CJK 0026</td>
<td>Interactions in a Diverse Community</td>
<td>12 hr</td>
<td>.40 cr.</td>
</tr>
<tr>
<td>CJK 0027</td>
<td>Calls for Service and Arrest Procedures</td>
<td>24 hr</td>
<td>.80 cr.</td>
</tr>
<tr>
<td>CJK 0028</td>
<td>Traffic Stops and Crash Investigations</td>
<td>28 hr</td>
<td>.93 cr.</td>
</tr>
<tr>
<td>CJK 0029</td>
<td>Crime Scene and Courtroom Procedures</td>
<td>8 hr</td>
<td>.26 cr.</td>
</tr>
<tr>
<td>CJK 0031</td>
<td>CMS First Aid for Criminal Justice Officers</td>
<td>40 hr</td>
<td>1.3 cr.</td>
</tr>
<tr>
<td>CJK 0040</td>
<td>CMS Criminal Justice Firearms</td>
<td>80 hr</td>
<td>2.7 cr.</td>
</tr>
<tr>
<td>CJK 0051</td>
<td>CMS Criminal Justice Defensive Tactics</td>
<td>80 hr</td>
<td>2.7 cr.</td>
</tr>
<tr>
<td>CJK 0042</td>
<td>Dart-Firing Stun Gun</td>
<td>8 hr</td>
<td>.26 cr.</td>
</tr>
</tbody>
</table>

**PSAV • Bail Bonding**

VOC.BB (120 Clock Hours)

This program prepares student for licensing and employment as a bail bond agent in the State of Florida. The bail bonding/surety agent PSAV program prepares you for employment as a licensed surety agent or bail bonds agent. The bail bonding/surety agent pre-licensing certification course is the basic prerequisite course on the criminal justice system required to becoming licensed as a Surety Agent/Bail Bonds Agent in Florida and is approved by the Bureau of Licensing of the Florida Department of Financial Services. This course will cover the laws, rules, and practices involved in bail bonding including the issuance and execution of bail bonds, the supervision, apprehension, and surrender of defendants, as well as the operation of the criminal justice system. For more information, student can refer to the Criminal Justice Technology website at www.hccfl.edu/bbc for specific details.

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCY 0010</td>
<td>Bail Bond</td>
<td>120 hr</td>
<td>4.0 cr.</td>
</tr>
</tbody>
</table>

**PSAV • Bus Transit Technician I**

VOC.TRANS.TECH1 (620 Clock Hours)

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIM 0810</td>
<td>Transit Equipment Preventive Maintenance</td>
<td>200 hrs</td>
<td>6.6 cr.</td>
</tr>
<tr>
<td>DIM 0811</td>
<td>Transit Basic Electrical Systems</td>
<td>120 hrs</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>DIM 0812</td>
<td>Transit Wheelchair Lift/Ramp</td>
<td>60 hrs</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DIM 0813</td>
<td>Transit Diesel Engine Preventive Maintenance</td>
<td>120 hrs</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>DIM 0814</td>
<td>Transit Steering and Suspension</td>
<td>120 hrs</td>
<td>4.0 cr.</td>
</tr>
</tbody>
</table>

*NOTE: This is a limited access program.

**PSAV • Bus Transit Technician II**

VOC.TRANS.TECH2 (620 Clock Hours)

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIM 0820</td>
<td>Transit Hydraulics</td>
<td>60 hrs</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DIM 0821</td>
<td>Transit Diesel Electrical and Diesel Engine Electronics</td>
<td>120 hrs</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>DIM 0822</td>
<td>Transit Drive Train</td>
<td>120 hrs</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>DIM 0823</td>
<td>Transit Intermediate Electrical Systems</td>
<td>120 hrs</td>
<td>4.0 cr.</td>
</tr>
</tbody>
</table>
The Dental Assisting program is accredited by the Commission on Dental Accreditation, 211 East Chicago Avenue, Chicago, IL 60611, (312)440-4653 or https://ada.org/100.aspx. 

NOTE: The Dental Assisting program has specific criteria that must be met prior to admission and is twelve months in length if attended full-time. For further information call Constance Reed at (813) 253-7279 or email at creed17@hccfl.edu.

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEA 0130</td>
<td>Allied Dental Theory</td>
<td>45 hr.</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DEA 0134</td>
<td>Dental Office Emergencies</td>
<td>30 hr.</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>DEA 0800</td>
<td>Clinical Practice I</td>
<td>75 hr.</td>
<td>2.5 cr.</td>
</tr>
<tr>
<td>DEA 0800L</td>
<td>Clinical Practice I Lab</td>
<td>150 hr.</td>
<td>5.0 cr.</td>
</tr>
<tr>
<td>DEA 0801L</td>
<td>Dental Practicum</td>
<td>254 hr.</td>
<td>8.5 cr.</td>
</tr>
<tr>
<td>DEA 0931</td>
<td>Dental Assisting in Orthodontics</td>
<td>15 hr.</td>
<td>0.5 cr.</td>
</tr>
</tbody>
</table>
### Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEA 0931L</td>
<td>Dental Assisting in Orthodontics Lab</td>
<td>30 hr</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>DES 0021</td>
<td>Head, Neck, and Dental Anatomy</td>
<td>45 hr</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DES 0021L</td>
<td>Head, Neck, and Dental Anatomy Lab</td>
<td>30 hr</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>DES 0053</td>
<td>Dental Pharmacology/Pain Control</td>
<td>30 hr</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>DES 0053L</td>
<td>Dental Pharmacology/Pain Control Lab</td>
<td>15 hr</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>DES 0103</td>
<td>Dental Materials</td>
<td>45 hr</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DES 0103L</td>
<td>Dental Materials Lab</td>
<td>45 hr</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DES 0205</td>
<td>Dental Radiology</td>
<td>45 hr</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DES 0205L</td>
<td>Dental Radiology Lab</td>
<td>45 hr</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DES 0300</td>
<td>Dental Psychology</td>
<td>15 hr</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>DES 0400</td>
<td>Dental Anatomy and Physiology</td>
<td>45 hr</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DES 0500</td>
<td>Computer Applications in Modern Dentistry</td>
<td>30 hr</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>DES 0501</td>
<td>Dental Office Management</td>
<td>30 hr</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>DES 0804</td>
<td>Intro to Clinical Procedures I</td>
<td>60 hr</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DES 0804L</td>
<td>Intro to Clinical Procedures I Lab</td>
<td>30 hr</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>DES 0830</td>
<td>Expanded Functions for Dental Auxiliaries</td>
<td>15 hr</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>DES 0830L</td>
<td>Expanded Functions for Dental Auxiliaries Lab</td>
<td>45 hr</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DES 0844</td>
<td>Preventive Dentistry</td>
<td>30 hr</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>DES 0936</td>
<td>Dental Seminar</td>
<td>15 hr</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>HSC 0003</td>
<td>Fundamentals of Allied Health Occupations</td>
<td>16 hr</td>
<td>0.5 cr.</td>
</tr>
</tbody>
</table>

**PSAV • Diesel Systems Technician**  
VOC.DIESEL.MECH (1800 Clock Hours)

This program provides entry level skills in heavy truck service and systems operation. The topics covered include shop safety, OSHA rules, applied math and science principles, identification and proper use of shop tools and equipment, heavy truck component identification, use of electronic service information, proper use of measuring tools, EPA rules on hazardous waste handling and disposal. Instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.

**Program Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIM 0101</td>
<td>Diesel Engine Mechanic Technician Helper</td>
<td>150 hr</td>
<td>5 cr.</td>
</tr>
<tr>
<td>DIM 0102</td>
<td>Diesel Electrical and Electronics Technician</td>
<td>300 hr</td>
<td>10 cr.</td>
</tr>
<tr>
<td>DIM 0103</td>
<td>Diesel Engine Preventative Maintenance Technician</td>
<td>150 hr</td>
<td>5 cr.</td>
</tr>
<tr>
<td>DIM 0104</td>
<td>Diesel Engine Technician</td>
<td>300 hr</td>
<td>10 cr.</td>
</tr>
<tr>
<td>DIM 0105</td>
<td>Diesel Brakes Technician</td>
<td>300 hr</td>
<td>10 cr.</td>
</tr>
<tr>
<td>DIM 0106</td>
<td>Diesel Heating and A/C Technician</td>
<td>150 hr</td>
<td>5 cr.</td>
</tr>
<tr>
<td>DIM 0107</td>
<td>Diesel Steering and Suspension Technician</td>
<td>150 hr</td>
<td>5 cr.</td>
</tr>
<tr>
<td>DIM 0108</td>
<td>Diesel Drivetrain Technician</td>
<td>150 hr</td>
<td>5 cr.</td>
</tr>
<tr>
<td>DIM 0109</td>
<td>Diesel Hydraulics Technician</td>
<td>150 hr</td>
<td>5 cr.</td>
</tr>
</tbody>
</table>

**PSAV • Fire Fighter/Emergency Medical Technician (Combined)**  
VOC.FIRE.EMT (698 Clock Hours)

**Program Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 0110</td>
<td>Emergency Medical Technician</td>
<td>300 hr</td>
<td>10 cr.</td>
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<tr>
<td>FFP 0010</td>
<td>Firefighting I</td>
<td>206 hr</td>
<td>6.9 cr.</td>
</tr>
<tr>
<td>FFP 0020</td>
<td>Firefighting II</td>
<td>192 hr</td>
<td>6.4 cr.</td>
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</table>

**PSAV • Fire Fighting**  
VOC.FF (398 Clock Hours)

Graduates are eligible to take the state certification examination administered by the Florida Bureau of Fire Standards and Training to become a certified fire fighter in Florida. Please call the Fire Fighter Program Manager at 253-7628 for more information.

**Program Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FFP 0010</td>
<td>Firefighting I</td>
<td>206 hr</td>
<td>6.9 cr.</td>
</tr>
<tr>
<td>FFP 0020</td>
<td>Firefighting II</td>
<td>192 hr</td>
<td>6.4 cr.</td>
</tr>
</tbody>
</table>
### Program Requirements

**PSAV • Heavy Equipment Service Technician**

VOC.HEQUIP.TECH (1800 Clock Hours)

This program provides entry level skills in heavy equipment service and systems operation. The topics covered include shop safety, OSHA rules, applied math and science principles, identification and proper use of shop tools and equipment, heavy equipment component identification, use of electronic service information, proper use of measuring tools, and EPA rules on hazardous waste handling and disposal. Instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIM 0101</td>
<td>Diesel Engine Mechanic Technician Helper</td>
<td>150 hr</td>
<td>5 cr.</td>
</tr>
<tr>
<td>DIM 0102</td>
<td>Diesel Electrical and Electronics Technician</td>
<td>300 hr</td>
<td>10 cr.</td>
</tr>
<tr>
<td>DIM 0103</td>
<td>Diesel Engine Preventive Maintenance Technician</td>
<td>150 hr</td>
<td>5 cr.</td>
</tr>
<tr>
<td>DIM 0104</td>
<td>Diesel Engine Technician</td>
<td>300 hr</td>
<td>10 cr.</td>
</tr>
<tr>
<td>DIM 0106</td>
<td>Diesel Heating and A/C Technician</td>
<td>150 hr</td>
<td>5 cr.</td>
</tr>
<tr>
<td>DIM 0107</td>
<td>Diesel Steering and Suspension Technician</td>
<td>150 hr</td>
<td>5 cr.</td>
</tr>
<tr>
<td>DIM 0108</td>
<td>Diesel Drivetrain Technician</td>
<td>150 hr</td>
<td>5 cr.</td>
</tr>
<tr>
<td>DIM 0110</td>
<td>Diesel Power Train Technician</td>
<td>150 hr</td>
<td>5 cr.</td>
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<tr>
<td>DIM 0130</td>
<td>Diesel Brakes and Fluid Technician</td>
<td>300 hr</td>
<td>10 hr.</td>
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</table>

**PSAV • Law Enforcement**

VOC.LAWE.GENR (770 Clock Hours)

This program prepares students for employment as a law enforcement officer. Please call the Criminal Justice Training Institute Public Service Program Manager at 253-7927 to obtain an application handbook. The program has specified admission criteria that students must meet to be considered for admission to an academy.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJK 0001</td>
<td>Introduction to Law Enforcement</td>
<td>10 hr</td>
<td>0.33 cr.</td>
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<tr>
<td>CJK 0012</td>
<td>Legal</td>
<td>62 hr</td>
<td>2.06 cr.</td>
</tr>
<tr>
<td>CJK 0013</td>
<td>Interactions in a Diverse Community</td>
<td>40 hr</td>
<td>1.33 cr.</td>
</tr>
<tr>
<td>CJK 0014</td>
<td>Interviewing and Report Writing</td>
<td>56 hr</td>
<td>1.86 cr.</td>
</tr>
<tr>
<td>CJK 0020</td>
<td>CMS Law Enforcement Vehicle Operations</td>
<td>48 hr</td>
<td>1.6 cr.</td>
</tr>
<tr>
<td>CJK 0031</td>
<td>CMS First Aid</td>
<td>40 hr</td>
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</tr>
<tr>
<td>CJK 0040</td>
<td>CMS Criminal Justice Firearms</td>
<td>80 hr</td>
<td>2.7 cr.</td>
</tr>
<tr>
<td>CJK 0051</td>
<td>CMS Defensive Tactics</td>
<td>80 hr</td>
<td>2.7 cr.</td>
</tr>
<tr>
<td>CJK 0064</td>
<td>Fundamentals of Patrol</td>
<td>35 hr</td>
<td>1.16 cr.</td>
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<tr>
<td>CJK 0065</td>
<td>Calls for Service</td>
<td>36 hr</td>
<td>1.2 cr.</td>
</tr>
<tr>
<td>CJK 0077</td>
<td>Criminal Investigations</td>
<td>50 hr</td>
<td>1.66 cr.</td>
</tr>
<tr>
<td>CJK 0078</td>
<td>Crime Scene to Court Room</td>
<td>35 hr</td>
<td>1.16 cr.</td>
</tr>
<tr>
<td>CJK 0084</td>
<td>DUI Traffic Stops</td>
<td>24 hr</td>
<td>0.8 cr.</td>
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<td>CJK 0087</td>
<td>Traffic Stops</td>
<td>30 hr</td>
<td>1.0 cr.</td>
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<tr>
<td>CJK 0088</td>
<td>Traffic Crash Investigation</td>
<td>32 hr</td>
<td>1.06 cr.</td>
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<tr>
<td>CJK 0092</td>
<td>Critical Incidents</td>
<td>44 hr</td>
<td>1.46 cr.</td>
</tr>
<tr>
<td>CJK 0096</td>
<td>Criminal Justice Officer Physical Fitness</td>
<td>60 hr</td>
<td>2.0 cr.</td>
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<tr>
<td>CJK 0422</td>
<td>Dart-Firing Stun Gun</td>
<td>8 hr</td>
<td>0.26 cr.</td>
</tr>
</tbody>
</table>

**PSAV • Private Investigator Intern**

VOC.PI (40 Clock Hours)

This program is for individuals who are interested in becoming a licensed Class C Private Investigator. Florida Statutes 493 requires these individuals to take and successfully pass a Private Investigator Intern course, make a contractual obligation with a Class C licensed Private Investigator to become their mentor for the two (2) year period of their internship and then apply for their Class C license. Students must be 18 years of age, a U.S. Citizen or Legal Resident and be able to pass a criminal background check.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
</table>
SCY 0051  Private Investigation I ................................................................. 24 hr. .................. 0.8 cr.
SCY 0052  Private Investigation II ............................................................. 16 hr. .................. 0.5 cr.

**PSAV • Welding Technology**

**VOC.WELDING.TECH (1050 Clock Hours)**

This program is designed to prepare students for a career in the welding technologies field. Students will learn basic entry level welding skills in SMAW, GMAW, FCAW, and GTAW welding processes. They will also learn welding safety, symbols, and blueprint reading for welders.

Program Requirements

<table>
<thead>
<tr>
<th>PMT</th>
<th>Clock hr.</th>
<th>Voc. cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0070</td>
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</tr>
<tr>
<td>0071</td>
<td>150 hrs.</td>
<td>5.0 cr.</td>
</tr>
<tr>
<td>0072</td>
<td>150 hrs.</td>
<td>5.0 cr.</td>
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<tr>
<td>0073</td>
<td>150 hrs.</td>
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<tr>
<td>0074</td>
<td>450 hrs.</td>
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</table>
Program Placement Rates

In accordance with Florida House Bill 167, enacted as of July 1, 1992, the following are the graduate placement rates for the last three reported academic years.

### Associate in Science Degrees

<table>
<thead>
<tr>
<th>Program Title</th>
<th>CIP*</th>
<th>17/18 Placement Rates</th>
<th>16/17 Placement Rates</th>
<th>15/16 Placement Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS - Accounting Technology</td>
<td>1552030201</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>AS - Aquaculture</td>
<td>1101030301</td>
<td>100%</td>
<td>50%</td>
<td>33%</td>
</tr>
<tr>
<td>AS - Architectural Design &amp; Construction Technology</td>
<td>1604090100</td>
<td>81%</td>
<td>100%</td>
<td>89%</td>
</tr>
<tr>
<td>AS - Biotechnology Laboratory Technology</td>
<td>1626120100</td>
<td>87%</td>
<td>100%</td>
<td>71%</td>
</tr>
<tr>
<td>AS - Business Administration</td>
<td>1552020102</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>AS - Computer Engineering Technology</td>
<td>1615120100</td>
<td>100%</td>
<td>100%</td>
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<tr>
<td>AS - Computer Information Technology</td>
<td>1511010307</td>
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<td>100%</td>
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<tr>
<td>AS - Computer Programming &amp; Analysis</td>
<td>1511020101</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>AS - Criminal Justice Technology</td>
<td>1743010302</td>
<td>87%</td>
<td>89%</td>
<td>86%</td>
</tr>
<tr>
<td>AS - Culinary Management</td>
<td>1612050400</td>
<td>92%</td>
<td>100%</td>
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</tr>
<tr>
<td>AS - Database Technology</td>
<td>1511010308</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>AS - Dental Hygiene</td>
<td>1351060200</td>
<td>92%</td>
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</tr>
<tr>
<td>AS - Diagnostic Medical Sonography Technology</td>
<td>151091004</td>
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<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>AS - Dietetic Technician</td>
<td>1351310301</td>
<td>92%</td>
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</tr>
<tr>
<td>AS - Digital Media/Multimedia Technology</td>
<td>1611080102</td>
<td>100%</td>
<td>100%</td>
<td>71%</td>
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<tr>
<td>AS - Digital Television and Media Production</td>
<td>1609070213</td>
<td>71%</td>
<td>50%</td>
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<tr>
<td>AS - Early Childhood Management</td>
<td>1419070802</td>
<td>95%</td>
<td>88%</td>
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<tr>
<td>AS - Electronics Engineering Technology</td>
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<tr>
<td>AS - Emergency Medical Services</td>
<td>1351090402</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
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<tr>
<td>AS - Engineering Technology</td>
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<tr>
<td>AS - Environmental Science Technology</td>
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<td>100%</td>
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<tr>
<td>AS - Fire Science Technology</td>
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<tr>
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<tr>
<td>AS - Human Services</td>
<td>1351100400</td>
<td>90%</td>
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<td>96%</td>
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<tr>
<td>AS - Industrial Management Technology</td>
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<td>100%</td>
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<tr>
<td>AS - Internet Services Technology</td>
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<td>75%</td>
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<tr>
<td>AS - Network Systems Technology</td>
<td>1511100112</td>
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<tr>
<td>AS - Nuclear Medicine Technology</td>
<td>1351090502</td>
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<td>100%</td>
<td>67%</td>
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<tr>
<td>AS - Nursing</td>
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<td>96%</td>
<td>98%</td>
<td>97%</td>
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<tr>
<td>AS - Office Administration</td>
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<tr>
<td>AS - Optician</td>
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<td>90%</td>
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<tr>
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<td>0351180202</td>
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<tr>
<td>AS - Paralegal (Legal Assisting)</td>
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<tr>
<td>AS - Radiography</td>
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<td>AS - Radiation Therapy</td>
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<td>AS - Respiratory Care</td>
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<td>100%</td>
<td>100%</td>
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<tr>
<td>AS - Restaurant Management</td>
<td>1252090500</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>AS - Sign Language Interpretation</td>
<td>1713100301</td>
<td>100%</td>
<td>100%</td>
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<tr>
<td>AS - Veterinary Technology</td>
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<tr>
<td>College Credit Certificates</td>
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<td>17/18</td>
<td>16/17</td>
<td>15/16</td>
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<td>--------------------------------------</td>
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</tr>
<tr>
<td>CCC - Accounting Technology Management</td>
<td>0552030205</td>
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</tr>
<tr>
<td>CCC - Accounting Technology Operations</td>
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<tr>
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<tr>
<td>CCC - AutoCAD Foundations</td>
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<td>CCC - Automation</td>
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<td>CCC - Biotechnology Specialist</td>
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<td>100%</td>
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<td>CCC - Broadcast Production</td>
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<tr>
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<tr>
<td>CCC - Business Operations</td>
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<td>CCC - Cable Installation</td>
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<td>CCC - Cisco CCNA</td>
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<td>ATC – Computed Tomography Advanced Imaging</td>
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<td>57%</td>
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<td>0743010304</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>CCC - Culinary Arts</td>
<td>0612050301</td>
<td>83%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>CCC – Database &amp; E-Commerce Security</td>
<td>0511100311</td>
<td>N/A</td>
<td>No Grads</td>
<td>100%</td>
</tr>
<tr>
<td>CCC – Digital Forensics</td>
<td>0511100119</td>
<td>100%</td>
<td>100%</td>
<td>N/A</td>
</tr>
<tr>
<td>CCC - Digital Media/Multimedia Authoring</td>
<td>0690702009</td>
<td>100%</td>
<td>100%</td>
<td>91%</td>
</tr>
<tr>
<td>CCC - Digital Media/Multimedia Instructional Technology</td>
<td>0690702111</td>
<td>100%</td>
<td>100%</td>
<td>75%</td>
</tr>
<tr>
<td>CCC - Digital Media/Multimedia Production</td>
<td>0610010507</td>
<td>100%</td>
<td>75%</td>
<td>89%</td>
</tr>
<tr>
<td>CCC - Digital Media/Multimedia Video Production</td>
<td>0690702110</td>
<td>75%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>CCC - Digital Media/Multimedia Web Production</td>
<td>0650010208</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>CCC - Digital Video Fundamentals</td>
<td>0610030414</td>
<td>71%</td>
<td>100%</td>
<td>0%</td>
</tr>
<tr>
<td>CCC - Drafting Design</td>
<td>0615130101</td>
<td>67%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>CCC - Electronics Technician</td>
<td>0615030309</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>CCC - Emergency Medical Technician</td>
<td>0351090400</td>
<td>84%</td>
<td>89%</td>
<td>86%</td>
</tr>
<tr>
<td>CCC – Engineering Technology Support Specialist</td>
<td>0615000007</td>
<td>No Match</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>CCC - Event Planning Management</td>
<td>0252090905</td>
<td>100%</td>
<td>100%</td>
<td>70%</td>
</tr>
<tr>
<td>CCC - Eye Care Technician</td>
<td>0351180302</td>
<td>100%</td>
<td>83%</td>
<td>100%</td>
</tr>
<tr>
<td>CCC – Food and Beverage Management</td>
<td>0252090503</td>
<td>100%</td>
<td>100%</td>
<td>67%</td>
</tr>
<tr>
<td>CCC - Food and Beverage Operations</td>
<td>0252090508</td>
<td>93%</td>
<td>No Grads</td>
<td>No Grads</td>
</tr>
<tr>
<td>CCC - Help Desk Support Technician</td>
<td>0511010313</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>CCC - Homeland Security Specialist</td>
<td>0743010306</td>
<td>96%</td>
<td>92%</td>
<td>100%</td>
</tr>
<tr>
<td>CCC – Information Technology Management</td>
<td>0511010304</td>
<td>No Grads</td>
<td>No Grads</td>
<td>100%</td>
</tr>
<tr>
<td>CCC - Information Technology Support</td>
<td>0511010311</td>
<td>No Match</td>
<td>No Grads</td>
<td>100%</td>
</tr>
<tr>
<td>CCC - Information Technology Analysis</td>
<td>0511010312</td>
<td>No Grads</td>
<td>No Grads</td>
<td>100%</td>
</tr>
<tr>
<td>CCC - Information Technology Technician</td>
<td>0511010303</td>
<td>No Grads</td>
<td>No Grads</td>
<td>No Grads</td>
</tr>
<tr>
<td>CCC - Laser and Photonics Technician CCC</td>
<td>0615030411</td>
<td>100%</td>
<td>91%</td>
<td>N/A</td>
</tr>
<tr>
<td>CCC - Lean Manufacturing</td>
<td>0615061302</td>
<td>100%</td>
<td>No Grads</td>
<td>100%</td>
</tr>
</tbody>
</table>
## Placement Rates

### CCC – Linux System Administrator
- CCC – Mechatronics: 0615000013
- CCC - Medical Information/Coder/Biller: 0351070107
- ATC – Medical Laboratory Technology: 0351100466
- CCC – Medical Office Management: 0551071605
- CCC - Microcomputer Repairer/Installer: 0647010406
- CCC – Network Enterprise Administration: 0511100113
- CCC – Network Infrastructure: 1511100114
- CCC – Network Security: 0511100118
- CCC – Network Server Administration: 0511100112
- CCC – Network Support Technician: 0511100121
- CCC - Office Management: 0552020401
- CCC - Office Specialist: 0552100403
- CCC - Office Support: 0552020403
- CCC - Ophthalmic Laboratory Technician: 0351100600
- ATC - Optician: 0317070166
- CCC - Oracle Certified Database Administrator: 0511020307
- ATC - Paralegal (Legal Assisting): 0722030266
- CCC - Paramedic: 0351100405
- CCC - Pneumatics, Hydraulics & Motors for Manufacturing: 0615061303
- CCC - Radiation Therapy Specialist: 0351109070
- ATC – Radiography: 0351090045
- CCC – Sustainable Design: 0630330106
- CCC – Television Studio Production: 0610100113
- CCC - Unix/Linux System Administration: 0511090106
- CCC - Video Editing & Post Production: 0609040217
- CCC - Water Quality Technician: 0703010404
- CCC - Web Development Specialist: 0511080103
- CCC - Wireless Communications: 0615030508
- CCC - Wireless IP Communications Technician: 0615030505

### CCC - Mechatronics
- No Match

### CCC - Medical Information/Coder/Biller
- N/A

### ATC – Medical Laboratory Technology
- No Grads

### CCC – Medical Office Management
- N/A

### CCC - Microcomputer Repairer/Installer
- N/A

### CCC – Network Enterprise Administration
- No Grads

### CCC – Network Infrastructure
- No Grads

### CCC – Network Security
- No Grads

### CCC – Network Server Administration
- No Grads

### CCC – Network Support Technician
- No Grads

### CCC - Office Management
- No Grads

### CCC - Office Specialist
- No Grads

### CCC - Office Support
- No Grads

### CCC - Ophthalmic Laboratory Technician
- No Grads

### ATC - Optician
- No Grads

### CCC - Oracle Certified Database Administrator
- No Grads

### ATC - Paralegal (Legal Assisting)
- No Grads

### CCC - Paramedic
- No Grads

### CCC - Pneumatics, Hydraulics & Motors for Manufacturing
- No Grads

### CCC - Radiation Therapy Specialist
- No Grads

### ATC – Radiography
- No Grads

### CCC – Sustainable Design
- No Grads

### CCC – Television Studio Production
- No Grads

### CCC - Unix/Linux System Administration
- No Grads

### CCC - Video Editing & Post Production
- No Grads

### CCC - Water Quality Technician
- No Grads

### CCC - Web Development Specialist
- No Grads

### CCC - Wireless Communications
- No Grads

### CCC - Wireless IP Communications Technician
- No Grads

## Postsecondary Adult Vocational Certificates

<table>
<thead>
<tr>
<th>Program Title</th>
<th>CIP*</th>
<th>Placement Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSAV – Advanced Water Treatment Technologies</td>
<td>0715050606</td>
<td>100%   67%  100%</td>
</tr>
<tr>
<td>PSAV – Applied Welding Technologies</td>
<td>0648050802</td>
<td>--     0%   No Grads</td>
</tr>
<tr>
<td>PSAV - Automotive Collision Repair and Refinishing</td>
<td>0647060300</td>
<td>69%     92%  94%</td>
</tr>
<tr>
<td>PSAV - Automotive Service Technology</td>
<td>0647060405</td>
<td>85%     100% No Grads</td>
</tr>
<tr>
<td>PSAV - Auxiliary Law Enforcement Officer</td>
<td>0743010701</td>
<td>88%     0%    100%</td>
</tr>
<tr>
<td>PSAV - Bail Bond Agent</td>
<td>0743010902</td>
<td>46%     76%  71%</td>
</tr>
<tr>
<td>PSAV - Correctional Officer</td>
<td>0743010200</td>
<td>97%     100% 100%</td>
</tr>
<tr>
<td>PSAV - Dental Assisting</td>
<td>0351060112</td>
<td>78%     67%  64%</td>
</tr>
<tr>
<td>PSAV - Fire Fighter</td>
<td>0743020300</td>
<td>90%     71%  81%</td>
</tr>
<tr>
<td>PSAV - Law Enforcement Officer</td>
<td>0743010700</td>
<td>94%     96%  No Grads</td>
</tr>
<tr>
<td>PSAV - Private Investigator Intern</td>
<td>0743010907</td>
<td>77%     57%  69%</td>
</tr>
<tr>
<td>PSAV - Transit Technician I</td>
<td>0647061307</td>
<td>0%      82%  50%</td>
</tr>
<tr>
<td>PSAV - Transit Technician II</td>
<td>0647061308</td>
<td>0%      82%  50%</td>
</tr>
<tr>
<td>PSAV - Transit Technician III</td>
<td>0647061309</td>
<td>100%    75%  100%</td>
</tr>
</tbody>
</table>
Apprenticeship Programs

<table>
<thead>
<tr>
<th>Program Title</th>
<th>CIP*</th>
<th>17/18</th>
<th>16/17</th>
<th>15/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Conditioning, Refrigeration and Heating Technician</td>
<td>0847020103</td>
<td>No Grads</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Carpentry</td>
<td>0846020105</td>
<td>No Grads</td>
<td>No Grads</td>
<td>No Grads</td>
</tr>
<tr>
<td>Electrician</td>
<td>0846030204</td>
<td>100%</td>
<td>98%</td>
<td>100%</td>
</tr>
<tr>
<td>Fire Sprinkler System Service Technician</td>
<td>0846080202</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Industrial Pipefitter</td>
<td>0846050303</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Sheet Metal Fabrication</td>
<td>0848050600</td>
<td>No Grads</td>
<td>No Grad</td>
<td>100%</td>
</tr>
</tbody>
</table>

*CIP (Classification of Instructional Programs) is a code used for State reporting to classify instructional programs. Placement rates are reported by the State-recognized CIP number for each program. Individual program options are not reported separately.

“N/A” signifies that no placement rates available-new program

“No Grads” signifies that no placement rates available - there were no graduates located in the follow-up process.

“No Match” signifies that the graduates did not match state job placement records.

“Not Related” student completers found but their job is not related to training received here.
Course Information

Florida’s Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida’s Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 27 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 SCNS 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 SCNS. The list of prefixes and associated courses is referred to as the “SCNS taxonomy.” Descriptions of the content of courses are referred to as “statewide course profiles.”

### Example of Course Identifier

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Level Code</th>
<th>Century Digit (first digit)</th>
<th>Decade Digit (third digit)</th>
<th>Unit Digit (fourth digit)</th>
<th>Lab Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>No laboratory component in this course</td>
</tr>
<tr>
<td>English Composition</td>
<td>Lower (Freshman) Level at this institution</td>
<td>Freshman Composition Skills</td>
<td>Freshman Composition Skills I</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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 Equivalency.

For example, a freshman composition skills course is offered by 59 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 I.”

In the sciences and certain other areas, a “C” or “L” after the course number is known as a lab indicator. The “C” represents a combined lecture and laboratory course that meets in the same place at the same time. The “L” represents a laboratory course or the laboratory part of a course that has the same prefix and course number but meets at a different time or place.

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 example, 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 at a Florida College System institution is guaranteed to receive transfer credit for 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 transfers 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 subcategory 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 (7), Florida Statute 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 non-public postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or non-public control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency

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 courses that must be evaluated individually or 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.

A. Courses not offered by the receiving institution.
B. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
C. Courses in the _900-999 series are not automatically transferable and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Theses and Dissertations.
D. College preparatory and vocational preparatory courses.
E. Graduate courses.
F. Internships, apprenticeships, practicals, clinical experiences and study abroad courses with numbers other than those ranging from 900-999.
G. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (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 SCNS makes available on its home page (https://scns.fldoe.org) a report entitled “Courses at Non-regionally Accredited Institutions” that contains a comprehensive listing of all non-public 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 SCNS and appeals regarding course credit transfer decisions should be directed to Millie Garrido, mgarridocaminero@hccfl.edu Curriculum Coordinator at the HCC-GWS District Administration Center or to the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the SCNS office at (850) 245-0427 or at https://scns.fldoe.org.
### Course Offerings by Prefix

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG</td>
<td>Accounting: General</td>
</tr>
<tr>
<td>AEB</td>
<td>Agricultural Economics and Business</td>
</tr>
<tr>
<td>AER</td>
<td>Automotive/Engine Repair</td>
</tr>
<tr>
<td>AFA</td>
<td>Afro American Studies</td>
</tr>
<tr>
<td>AFR</td>
<td>Aerospace Studies</td>
</tr>
<tr>
<td>AMH</td>
<td>American History</td>
</tr>
<tr>
<td>AML</td>
<td>American Literature</td>
</tr>
<tr>
<td>ANT</td>
<td>Anthropology</td>
</tr>
<tr>
<td>APA</td>
<td>Applied Accounting</td>
</tr>
<tr>
<td>ARC</td>
<td>Architecture</td>
</tr>
<tr>
<td>ARH</td>
<td>Art History</td>
</tr>
<tr>
<td>ARR</td>
<td>Autobody Repair and Refinishing</td>
</tr>
<tr>
<td>ART</td>
<td>Art</td>
</tr>
<tr>
<td>ASL</td>
<td>American Sign Language</td>
</tr>
<tr>
<td>AST</td>
<td>Astronomy</td>
</tr>
<tr>
<td>ATE</td>
<td>Animal Science Technology</td>
</tr>
<tr>
<td>BCN</td>
<td>Building Construction</td>
</tr>
<tr>
<td>BCT</td>
<td>Building Construction Trades</td>
</tr>
<tr>
<td>BRC</td>
<td>Banking: Related Course</td>
</tr>
<tr>
<td>BSC</td>
<td>Biological Science</td>
</tr>
<tr>
<td>BUL</td>
<td>Business Law</td>
</tr>
<tr>
<td>CAP</td>
<td>Computer Applications</td>
</tr>
<tr>
<td>CCJ</td>
<td>Criminology and Criminal Justice</td>
</tr>
<tr>
<td>CEN</td>
<td>Computer Engineering</td>
</tr>
<tr>
<td>CET</td>
<td>Computer Engineering Tech</td>
</tr>
<tr>
<td>CGS</td>
<td>Computers: General Studies</td>
</tr>
<tr>
<td>CHD</td>
<td>Child Development</td>
</tr>
<tr>
<td>CHM</td>
<td>Chemistry</td>
</tr>
<tr>
<td>CHS</td>
<td>Chemistry: Specialized</td>
</tr>
<tr>
<td>CIS</td>
<td>Computer and Information System</td>
</tr>
<tr>
<td>CJC</td>
<td>Corrections</td>
</tr>
<tr>
<td>CJE</td>
<td>Law Enforcement</td>
</tr>
<tr>
<td>CJJ</td>
<td>Juvenile Justice</td>
</tr>
<tr>
<td>CJK</td>
<td>Criminal Justice Basic Training</td>
</tr>
<tr>
<td>CJL</td>
<td>Law and Process</td>
</tr>
<tr>
<td>CLP</td>
<td>Clinical Psychology</td>
</tr>
<tr>
<td>CNT</td>
<td>Computer Networks</td>
</tr>
<tr>
<td>COM</td>
<td>Communication</td>
</tr>
<tr>
<td>COP</td>
<td>Computer Programming</td>
</tr>
<tr>
<td>CRW</td>
<td>Creative Writing</td>
</tr>
<tr>
<td>CTS</td>
<td>Computer Technology and Skills</td>
</tr>
<tr>
<td>CVT</td>
<td>Cardiovascular Technology</td>
</tr>
<tr>
<td>DAA</td>
<td>Dance Activities</td>
</tr>
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<td>DAN</td>
<td>Dance</td>
</tr>
<tr>
<td>DEA</td>
<td>Dental Assisting</td>
</tr>
<tr>
<td>DEH</td>
<td>Dental Hygiene</td>
</tr>
<tr>
<td>DEP</td>
<td>Developmental Psychology</td>
</tr>
<tr>
<td>DES</td>
<td>Dental Support</td>
</tr>
<tr>
<td>DIE</td>
<td>Dietetics</td>
</tr>
<tr>
<td>DIM</td>
<td>Diesel Mechanics</td>
</tr>
<tr>
<td>DSC</td>
<td>Domestic Security</td>
</tr>
<tr>
<td>EAP</td>
<td>English Academic Purposes</td>
</tr>
<tr>
<td>ECO</td>
<td>Economics</td>
</tr>
<tr>
<td>EDF</td>
<td>Education: Foundations</td>
</tr>
<tr>
<td>EDP</td>
<td>Educational Psychology</td>
</tr>
<tr>
<td>EEC</td>
<td>Education: Early Childhood</td>
</tr>
<tr>
<td>EET</td>
<td>Electronic Engineering Technology</td>
</tr>
<tr>
<td>EGN</td>
<td>Engineering: Support</td>
</tr>
<tr>
<td>EME</td>
<td>Education: Technology and Media</td>
</tr>
<tr>
<td>EMS</td>
<td>Emergency Medical Services</td>
</tr>
<tr>
<td>ENC</td>
<td>English Composition</td>
</tr>
<tr>
<td>ENG</td>
<td>English: General</td>
</tr>
<tr>
<td>ENL</td>
<td>English Literature</td>
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<tr>
<td>ENT</td>
<td>Entrepreneurship</td>
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<tr>
<td>EPI</td>
<td>Educator Prep Institute</td>
</tr>
<tr>
<td>ESC</td>
<td>Earth Science</td>
</tr>
<tr>
<td>ETD</td>
<td>Engineering Tech: Drafting</td>
</tr>
<tr>
<td>ETI</td>
<td>Engineering Tech: Industrial</td>
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**Course Offerings by Subject Matter**

Accounting: General ........................................................... ACG
Accounting: Occupational/Technical ................................. ACO
Aerospace Studies .......................................................... AFR
Afro American Studies .................................................. AFA
Agricultural Economics and Business ................................. AEB
American History ........................................................ AMH
American Literature ...................................................... AML
American Sign Language ................................................ ASL
Animal Science Technology ............................................... ATE
Anthropology ........................................................................ ANT
Applied Accounting ......................................................... APA
Aquacultural Science ...................................................... FAS
Architecture ........................................................................ ARC
Art History ................................................................. ARH
Art .................................................................................... ART
Astronomy ........................................................................ AST
Autobody Repair and Refinishing .................................... ARR
Automotive/Engine Repair ................................................. AER
Banking: Related Course ................................................ BRC
Biological Science .......................................................... BSC
Building Construction Trades ......................................... BCT
Building Construction ..................................................... BCN
Business Law ....................................................................... BUL
Cardiovascular Technology ............................................ CVT
Chemistry ........................................................................ CHM
Chemistry: Specialized ..................................................... CHS
Child Development .......................................................... CHD
Clinical Psychology ........................................................ CLP
Communications ............................................................. COM
Computer and Information Systems .................................. CIS
Computer Applications ..................................................... CAP
Computer Engineering Technology .................................... CET
Computer Engineering ..................................................... CEN
Computer Networks ........................................................ CNT
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Ornamental Horticulture ..................................................... ORH
Paralegal/Legal Asst./Legal Administration ......................... PLA
Philosophy............................................................................ PHI
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Physical Education: Object Centered .................................. PEL
Physical Education: Performance Centered....................... PEM
Physical Education: Tai Chi................................................ PEO
Physical Education: Water.................................................. PEN
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Theatre................................................................. THE
Zoology............................................................................... ZOO
Credit Course Descriptions

**ACG 2021**  
**Introduction to Financial Accounting**  
3 Credits  
Covers theory and logic that underlie accounting procedures. Course content includes an introduction to accounting concepts, procedures for reading business transactions, preparation of financial statements, accounting for merchandising concerns, corporations, bonds, and other procedures to calculate and maintain accounting information. Prerequisites: College level reading, writing and math skills are required.

**ACG 2021H**  
**Honors Introduction to Financial Accounting**  
3 Credits  
The same course description as ACG 2021 with honors content.

**ACG 2030**  
**Capstone Review for Accounting Principles**  
3 Credits  
This course guides the student in dealing with ethics, internal control, fraud and financial statement analysis in the accounting environment, including confronting and resolving accounting problems by integrating and applying skills and techniques acquired in their previous courses, aiding students in developing a personal code of ethics by exploring ethical dilemmas and pressures that they will face as accountants, and helping the student understand financial statement analysis and its relationship to fraud and fraud detection. College level reading, writing, and math skills required. Prerequisites: ACG 2021, ACG 2071, ACG 2104, ACG 2450, ACG 2061.

**ACG 2061**  
**Computers and Accounting**  
3 Credits  
This course teaches various computerized accounting applications, including the use of Excel, to prepare accounting records and reports and interpret accounting information. College reading, writing, and math skills required. Prerequisites: ACG 2021, ACG 2071

**ACG 2071**  
**Managerial Accounting**  
3 Credits  
Focuses on analyzing accounting records and using the results in making management decisions. College level reading, writing and math skills are required. Prerequisite: ACG 2021

**ACG 2071H**  
**Honors Managerial Accounting**  
3 Credits  
The same course description as ACG 2071 with honors content. Honors Program permission required. Prerequisite: ACG 2021

**ACG 2104**  
**Intermediate Accounting I**  
3 Credits  
This course reviews accounting procedures and then expands into the specialized treatment of financial statements, current assets, current liabilities, long-term plant assets and tax procedures. College level reading, writing, and math skills required. Prerequisite: ACG 2021, ACG 2071

**ACG 2450**  
**Microcomputers in Accounting**  
3 Credits  
This course introduces the student to the use of computers for preparing and analyzing accounting records. Prerequisites: ACG 2021, ACG 2071, CGS 1000

**ACG 2681**  
**Financial Investigation**  
3 Credits  
This course examines the field of fraud examination and how fraud occurs and is detected within financial statements. College level reading, writing, and math skills required. Prerequisite: ACG 2021

**ACG 2949**  
**Cooperative Education Internship in Accounting**  
3 Credits  
This course provides the student with a practical application of knowledge acquired in the classroom, including: experience in a business setting; provide real-life situations and applications of accounting; encourage critical thinking and problem-solving; and develop teamwork and interpersonal communication skills. College level reading, writing, and math skills required. Prerequisites: ACG 2021, ACG 2030, ACG 2071, ACG 2104, ACG 2450

**ACG 2961**  
**Comprehensive Examination – Tax Option**  
3 Credits  
This course guides the student in dealing with ethical and tax accounting issues of individuals and businesses. In addition, students utilize their knowledge of the tax law, integrating and applying skills and techniques acquired in their previous courses to pass the Accredited Tax Preparer (ATP) certification exam. College level reading, writing, and math skills required. Prerequisites: ACG 2021, ACG 2071, ACG 2104, ACG 2681, TAX 2000, TAX 2010.

**ACG 2960**  
**Comprehensive Examination – Financial Option**  
3 Credits  
This course guides the student in dealing with accounting theory, internal control and error correction in the accounting environment, including confronting and resolving accounting problems by integrating and applying skills and techniques acquired in their previous courses. College level reading, writing, and math skills required.

AFA 1000
Introduction to Black Studies
3 Credits
Includes the nature and meaning of the Afro-American experience from its beginning to the present, with an emphasis on visual arts, music, literature, philosophic thought and social history.

AFA 1001
Introduction to Black Culture
3 Credits
Examines the black person’s interactions in the American culture, with emphasis on social values, attitudes, behaviors and processes that identify black Americans as an ethnic group.

AFR 1101
The Foundation of the U.S. Air Force, Part I
1 Credit
This course serves as an introduction to the Air Force Reserve Officer Training Corps (AFROTC) and U.S. Air Force (USAF) lessons in officership/professionalism and an introduction to communications skills. Enrollment is limited to students who are also enrolled in the USF ROTC program.

AFR 1120
The Foundation of the U.S. Air Force, Part II
1 Credit
A study of Air Force installations, core values, leadership, team building, and diversity within the armed forces. Enrollment is limited to students who are also enrolled in the USF ROTC program.

AFR 2001
Air Force ROTC Leadership Laboratory
0 Credit
This course is required for each of the AFR courses. Instruction is conducted within the framework of an organized cadet corps with progression of experiences designed to develop each student’s leadership potential. Leadership laboratory involves a study of Air Force customs and courtesies; drill and ceremonies; career opportunities in the Air Force; and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical laboratory which typically includes field trips to Air Force installations. Enrollment is limited to students who are also enrolled in the USF ROTC program.

AFR 2130
The Evolution of USAF Aerospace Power, Part I
1 Credit
A study of air power from balloons and dirigibles through the jet age. Emphasis is on the employment of air power in WWI and WWII and how it affected the evolution of air power concepts and doctrine. Enrollment is limited to students who are also enrolled in the USF ROTC program.

AFR 2140
The Evolution of USAF Aerospace Power, Part II
1 Credit
An historical review of air power employment in military and non-military operations in support of national objectives. Emphasis is placed on the period from post WWII to present. Enrollment is limited to students who are also enrolled in the USF ROTC program.

AMH 2010
Early American History
3 Credits
Provides an overview of United States history including discovery, colonial foundations, movement for independence, and the early years of the republic through the Civil War and Reconstruction, with an emphasis on North American geography. Prerequisites: College level reading and writing skills are required.

AMH 2020
Modern American History
3 Credits
Provides a study of United States development from the period of Reconstruction to the present. Topics include politics, economics, geography, social issues and reforms as related to contemporary society. Prerequisites: College level reading and writing skills are required.

AMH 2020H
Honors Modern American History
3 Credits
Same as AMH 2020 with honors content. Honors Program permission required. Prerequisites: College level reading and writing skills are required.

AMH 2051
U.S. Military History
3 Credits
Examines the conflicts of the nation from its beginning to the present with an emphasis on military action, political aspects and historical significance. Prerequisites: College level reading and writing skills are required.

AMH 2090
History of Women in the United States
3 Credits
This course explores the history of women’s experience in American Society. The focus will be to examine the construction of womanhood throughout United States history and the experience of gender, ethnicity, class and sexual orientation from/upon women’s experiences. Students will study the contribution of various individual women and groups of women in creating the modern United States, and will analyze social, political, economic and cultural forces affecting women to both join and resist movements for social change from pre-contact
to the present. Prerequisites: College level reading and writing skills are required.

**AML 2010**
**American Literature to 1885**
3 Credits
Focuses on American writers from the Colonial, Federal and Romantic periods. Topics include major trends in Puritanism, Transcendentalism and Romanticism.
Prerequisites: College level reading and writing skills are required.

**AML 2020**
**American Literature: 1885 to Present**
3 Credits
Focuses on American writers since 1865. Topics include major trends in realism, naturalism and primitivism in the 19th and 20th centuries.
Prerequisites: College level reading and writing skills are required.

**AML 2020H**
**Honors American Literature: 1885 to Present**
3 Credits
Same as AML 2020 with honors content. Honors Program permission required.
Prerequisites: College level reading and writing skills are required.

**AML 2600**
**African-American Literature**
3 Credits
Provides an overview of African-American literature and cultural expression in the United States from the pre-discursive period to the present. Through reading, discussion, lectures, and films the historical forces that have influenced the voice of African-American literature will be discussed. The politics of African-American literature will also be explored.
Prerequisite: ENC 1101

**AML 2600H**
**Honors African-American Literature**
3 Credits
Same as AML 2600 with honors content. Honors Program permission required.
Prerequisites: College level reading and writing skills are required.

**ANT 2000H**
**Honors Introduction to Anthropology**
3 Credits
Same as ANT 2000 with honors content. Honors Program permission required.
Prerequisites: College level reading and writing skills are required.

**ANT 2410**
**Cultural Anthropology**
3 Credits
Presents the social science and humanities aspects of anthropology in contrast to physical anthropology. Human behavior, customs, and the values and goals of various cultures are examined.
Prerequisite: ANT 2000

**ANT 2511**
**Introduction to Biological Anthropology**
3 Credits
This course will trace the origins of humanity from very early primates through extinct hominins to arrive at modern people. Students in this course will learn the basics of evolutionary theory and genetics, investigate human evolutionary history through the fossil record, observe contemporary non-human primates, and apply this knowledge to a bio-cultural understanding of human variation, past and present.

**ANT 2511L**
**Introduction to Biological Anthropology Laboratory**
1 Credit
This is a lab companion to an overview of Biological Anthropology. The student will be doing laboratories which are relevant to the class topics covered in the lecture and material in ANT 2511.

**ANT 2930**
**Special Topics in Anthropology**
3 Credit
Topics evaluated in the course will demonstrate the holistic and interdisciplinary approach of anthropology and highlight evidence spanning across all times and places. The course will analyze concepts, theories, terminology, methods, and data related to the selected topic.

**APA 1111**
**Basic Accounting**
3 Credits
Covers basic accounting procedures and concepts and business terminology; designed for students with no financial training.

**ARC 1180**
**Introduction to Digital Architecture**
3 Credits
An introduction to digital design software and visualization concepts for communicating architectural design intent. Practical skills and design theories will be explored through the
creation of portfolio pages, design presentations, and 3D visualization projects. Software will include Photoshop, Illustrator, In-Design, SketchUp, and 3ds Max.
ARC 1301  
**Architectural Design I**  
4 Credits  
Provides an introduction to architectural design, with an emphasis on the tools of architectural communications.  
Prerequisite: College level reading, writing skills are required.  
Co-requisite: ARC 1701

ARC 1302  
**Architectural Design II**  
4 Credits  
Focuses on organizational systems and space, with an emphasis on freehand drawing, mechanical drawing, one point perspectives and model making. College level reading, writing and math skills are required.  
Prerequisites: ARC 1301, ARC 1701

ARC 1701  
**Survey of Architectural Design I**  
3 Credits  
Focuses on the effects of social, political and cultural forces on architecture from the earliest times through the Baroque era, with an emphasis on design and architectural expression.  
Prerequisites: College level reading and writing skills are required.  
Co-requisite: ARC 1301

ARC 2201  
**Theory of Architecture**  
3 Credits  
Focuses on the critical study of architecture with an emphasis on gaining an educated perspective of design methods. College level reading, writing and math skills are required.  
Prerequisites: ARC 1301, ARC 1701  
Co-requisite: ARC 2303

ARC 2303  
**Architectural Design III**  
5 Credits  
Focuses on diagramming, design response and decision making. College level reading, writing and math skills are required.  
Prerequisites: ARC 1301, ARC 1302 and ARC 1701  
Co-requisite: ARC 2201

ARC 2304  
**Architectural Design IV**  
5 Credits  
Focuses on how human action, structure, enclosure systems, geography and history influence architectural design. Completion of ARC 1301, ARC 1701, ARC 2201 and ARC 2303 strongly recommended. Completion of BCN 1250, TAR 170C and TAR 1171C strongly recommended for A.S./ADCT program. Enrollment in ARC 2501 strongly recommended.

ARC 2461  
**Materials and Methods I**  
3 Credits  
Provides an introduction to building materials, systems and the construction process in residential and commercial scale projects. Study of the environmental impact of material and system selection using LEED and Sustainable Design criteria explored. College level reading and writing skills are required.

ARC 2501  
**Architectural Structures I**  
4 Credits  
An introduction into structural theory and analysis for trusses, beams and columns subjected to gravity loads. Topics include shear and moment diagrams and the determination of section properties, internal stresses, deflection and internal forces. Completion of ARC 2461 strongly recommended. Enrollment in ARC 2304 strongly recommended.

ARH 1000  
**Understanding Visual Art**  
3 Credits  
Designed for the non-art major; provides a foundation for understanding the visual arts.  
Prerequisites: College level reading and writing skills are required.

ARH 1000H  
**Honors Understanding Visual Art**  
3 Credits  
Same as ARH 1000 with honors content. Honors Program permission required.  
Prerequisites: College level reading and writing skills are required.

ARH 1050  
**Art History I**  
3 Credits  
Presents a historical review of Western art from prehistory through the Middle Ages with an examination of works in painting, sculpture, architecture and the minor arts. Students are NOT required to take ARH 1050 either prior to or in conjunction with ARH 1051.  
Prerequisites: College level reading and writing skills are required.

ARH 1051  
**Art History II**  
3 Credits  
Presents a historical review of Western art from the start of the Renaissance to the present with an examination of works in painting, sculpture, architecture and the minor arts. Students are NOT required to take ARH 1050 either prior to or in conjunction with this class.  
Prerequisites: College level reading and writing skills are required.

ARH 1500  
**Non-Western Art History**  
3 Credits
This course presents a general introduction to the visual arts of Asian, African, pre-Columbian, Native American, and Oceanic cultures from ancient times to the present. Prerequisite: College level reading and writing skills required.

**ART 1201C**  
**Visual Studies Foundations I**  
3 Credits  
This is an introduction to basic visual art studio concepts. This course includes fundamentals of art making, the elements of two dimensional forms, modes of representation and visual art theory. Studio assignments are supplemented by class critique, discussion and hands-on experimentation with various media. Emphasis is placed on creative expression and examination of visual elements.

**ART 1203C**  
**Visual Studies Foundations II**  
3 Credits  
This course builds upon the fundamental principles and elements of art making, form and composition introduced in ART 1201C, and builds on their application to three dimensional space, both implied and practical. The nature of this transition inherently focuses on light and shadow. The student will be subjected to many lectures and projects concerning these effects. Studio assignments are supplemented by class critique discussion and hands-on experimentation with various media. Prerequisite: ART 1201C

**ART 1300C**  
**Drawing I**  
3 Credits  
Covers the basic principles of drawing tangibles such as still life, landscape and the nude figure. The course deals with black and white media such as pencil and charcoal. The class topics include composition, line, value, volume, negative space, directional forces, perspective and proportion. Drawing I is recommended before taking upper level courses: painting, computer graphics, photography, sculpture, ceramics and printmaking.

**ART 2301C**  
**Drawing II**  
3 Credits  
Covers advanced problems in color media and the exploration of a variety of media and formats. Topics include investigation of contemporary personal direction and the development of a portfolio. Prerequisite: ART 1300C

**ART 2400C**  
**Printmaking I**  
3 Credits  
Provides an introduction to printmaking, including the basic techniques of lithography, etching and silk screen. A special fee for face-to-face sections will be charged for this course. Prerequisite: ART 1201C

**ART 2401C**  
**Printmaking II**  
3 Credits  
Covers advanced printmaking techniques, such as multiple printing, registration and chemical reversals, with an emphasis on creativity and the development of a personal style. A spe
ART 2500C
Painting I
3 Credits
Covers basic painting techniques with an emphasis on classic and contemporary applications of oil and acrylic media. Topics include the use of composition, color, texture, form and value through still life, landscape, portrait, figure and old masters reproduction.
Prerequisite: ART 1300C

ART 2501C
Painting II
3 Credits
Emphasizes the development of a personal and creative use of painting media through an exploration of contemporary imagery. Students will pursue personal imagery or select eight options from contemporary art movements.
Prerequisite: ART 2500C

ART 2600C
Digital Art
3 Credits
This course is intended to introduce students to basic digital imaging manipulation skills within the fine art context of creative expression. Focus on digital imaging manipulation techniques learned within a raster-based environment, primarily including the fundamentals of various special effects, filters, layers and masks used to explore the creation of artistically expressive images. Students will use current computer imaging software to create original art in a variety of final output formats. Hardware and image input processes are also discussed.
Prerequisite: ART 1201C or PGY 2801C

ART 2701C
Sculpture I
3 Credits
Covers the problems and techniques of applied three-dimensional design, with an emphasis on the use of materials and tools. Topics include clay, plaster, stone, wood, metal and wax.
A special fee for face-to-face sections will be charged for this course.
Prerequisite: ART 1203C

ART 2702C
Sculpture II
3 Credits
Provides continued experience with expression in three-dimensional forms. This course will require students to conduct independent investigations in the design and creation of several sculpture projects. Techniques may include metal fabrication, glass casting, stone carving, woodworking, installations, wax and metal casting. A special fee for face-to-face sections will be charged for this course.
Prerequisite: ART 2701C or permission of instructor.
ART 2750C
Ceramics I
3 Credits
An introductory course emphasizing the total ceramic process from moist clay to fired ware. A special fee for face-to-face sections will be charged for this course.

ART 2751C
Ceramics II
3 Credits
Emphasizes the processes of casting, wheel-thrown forms, hand building and glaze formulation. A special fee for face-to-face sections will be charged for this course.
Prerequisite: ART 2750C

ART 2901
Directed Independent Study: Ceramics
3 Credits
This course is designed to establish a framework for further self-learning in various areas of ceramics for the advanced student. The student will shape the course to fit their needs by planning activities and preparing a contract coordinated with an art faculty member. The contract will specifically outline a specific project, or a particular set of goals and requirements that the student wishes to achieve. The contract must be satisfactorily completed and reviewed by the assigned faculty member. May be taken four times for credit.

ART 2902
Directed Independent Study: Drawing
3 Credits
This course is designed to establish a framework for further self-learning in various areas of drawing for the advanced student. The student will shape the course to fit their needs by planning activities and preparing a contract coordinated with an art faculty member. The contract will specifically outline a specific project, or a particular set of goals and requirements that the student wishes to achieve. The contract must be satisfactorily completed and reviewed by the assigned faculty member. May be taken four times for credit.

ART 2903
Directed Independent Study: Painting
3 Credits
This course is designed to establish a framework for further self-learning in various areas of painting for the advanced student. The student will shape the course to fit their needs by planning activities and preparing a contract coordinated with an art faculty member. The contract will specifically outline a specific project, or a particular set of goals and requirements that the student wishes to achieve. The contract must be satisfactorily completed and reviewed by the assigned faculty member. May be taken four times for credit.

ART 2904
Directed Independent Study: Sculpture
3 Credits
This course is designed to establish a framework for further self-learning in various areas of sculpture for the advanced student. The student will shape the course to fit their needs by planning activities and preparing a contract coordinated with an art faculty member. The contract will specifically outline a specific project, or a particular set of goals and requirements that the student wishes to achieve. The contract must be satisfactorily completed and reviewed by the assigned faculty member. May be taken four times for credit.

ART 2905
Directed Independent Study: Art
3 Credits
Designed to establish a framework for further self-learning in various areas of visual arts for the advanced student. The student will shape the course to fit their needs by planning activities and preparing a contract coordinated with an art faculty member. The contract will specifically outline a specific project, or a particular set of goals and requirements that the student wishes to achieve. The contract must be satisfactorily completed and reviewed by the assigned faculty member. May be taken four times for credit.

ART 2930C
Selected Topics in Art
3 Credits
Selected Topics in Art is a studio course centered around topics of special interest to the class and professor. Topics or focus will be based on the needs and areas of interest, which may vary from semester to semester. Exceptions to the prerequisite will be considered by the instructor. Transfer credit is the prerogative of the receiving institution. May be taken eight times for credit.
Prerequisites: ART 1201C or ART 1300C or ART 2500C

ART 2950C
Professional Art Practices
3 Credits
This class is designed to provide students with the opportunity to learn professional art practices through hands-on experience. Skill sets taught will revolve around the development of a personal artist’s portfolio, intended as an aid for college placement submissions as well as for proposals for personal exhibitions. Additional skill sets will also revolve around learning the practices of gallery operations.
Prerequisite: ART 1201C

ASL 1140C
American Sign Language I
3 Credits
This course provides an overview of the American Sign Language and the deaf community in America with an emphasis on the linguistics and vocabulary of ASL, and the development of conversational sign language skills and deaf culture. Prerequisites: College level reading and writing skills are required.

**ASL 1150C**  
**American Sign Language II**  
3 Credits  
This course continues the development ASL skills for students who have successfully completed ASL 1140C. This course focuses more on the ASL vocabulary, grammatical principles, and cultural protocols that students need to function at a basic level in the work place and socially. Prerequisites: ASL 1140C

**AST 1002C**  
**Astronomy**  
3 Credits  
An introductory course in astronomy which presents a survey of the current knowledge of our universe as well as the contemporary, prevailing scientific viewpoint of its nature, its origins, and the evolution and development of its constituents. Topics include our own solar system, other star systems (including planetary systems), stars in general, galaxies, quasars, the universe itself, and the prospects of intelligent life elsewhere. Where appropriate, lectures will be supplemented by hands-on student activities as well as demonstrations and audio visual presentations. A special fee for face-to-face sections will be charged for this course. Prerequisites: College level reading, writing and math skills required.

**ATE 1001**  
**Introduction to Veterinary Technology**  
1 Credit  
This course presents an overview of veterinary technology including ethical, legal, and safety issues in veterinary medicine, practice management, and effective communication within the veterinary practice. Career opportunities in the veterinary field are also addressed. Prerequisites: College level reading, writing and math skills required.

**ATE 1031**  
**Applied Mathematics for Veterinary Technicians**  
1 Credit  
This course will cover basic conversions, dose calculations, dilutions/solutions, compounding, and continuous rate infusion calculations, among other topics. Prerequisites: College level reading, writing and math skills required.

**ATE 1100**  
**Animal Anatomy**  
3 Credits  
This course covers the basic gross and microscopic anatomy of domestic animals, especially the canine and feline with emphasis on locating and identifying anatomical regions and landmarks and applications. The student will be introduced to the descriptive and topographical terms needed to communicate to the professional staff. Prerequisites: Admission to the Veterinary Technology program. College level reading, writing and math skills required. Co-requisites: ATE 1110L, ATE 1211

**ATE 1110L**  
**Animal Anatomy Laboratory**  
1 Credit  
This course is designed to acquaint the student with the fundamental techniques involved in anatomic dissection as well as necropsy procedures. This laboratory will correlate with ATE 1110 lecture material and will help visualize concepts. Prerequisites: College level reading, writing and math skills required.

**ATE 1112**  
**Animal Anatomy and Physiology I**  
3 Credits  
This course covers the basic gross and microscopic anatomy of domestic animals, especially the canine and feline with emphasis on locating and identifying anatomical regions and landmarks and applications. The student will be introduced to the descriptive and topographical terms needed to communicate to the professional staff. This course covers the basic physiology of domestic animals, especially the canine and feline. It includes basic chemistry and organic chemistry for physiology, cell biology, and tissue types of the skeletal, integumentary, muscular, cardiovascular, blood, lymph, immune, and respiratory system. Prerequisite: College level reading, writing, and math skills are required.

**ATE 1113**  
**Animal Anatomy and Physiology II**  
3 Credits  
This course covers the basic gross and microscopic anatomy of domestic animals, especially the canine and feline with emphasis on locating and identifying anatomical regions and landmarks and applications. The student will be introduced to the descriptive and topographical terms needed to communicate to the professional staff. This course covers the basic physiology of domestic animals, especially the canine and feline. It includes basic chemistry and organic chemistry for physiology, cell biology, and tissue types of the digestive, nervous, sense organ, endocrine, urinary, and reproductive system. Prerequisite: ATE 1112, College level reading, writing, and math skills are required.

**ATE 1211**  
**Animal Physiology**  
3 Credits  
This course is designed to acquaint the student with physiology of domestic animals. Emphasis is placed on the functions of organ systems relevant to veterinary technology. Aspects of
physiology relating to the pathogenesis of certain diseases will be discussed.
Prerequisite: Admission to the Veterinary Technology program.
Co-requisites: ATE 1110, ATE 1110L

ATE 1311L
Veterinary Office Procedure Lab
1 Credit
Designed to acquaint the student with office procedures, client education, mathematics and veterinary computer applications.
Prerequisite: Admission to the Veterinary Technology program.

ATE 1501
Veterinary Professional Development and Ethics
1 Credit
This course presents laws and agencies governing the care, use, and movement of animals. Other areas of focus include resume writing, employment skills, veterinary medical ethics, and current trends in veterinary practice.
Prerequisite: College level reading, writing, and math skills are required.

ATE 1650L
Veterinary Clinical Practice Laboratory I
1 Credit
Acquaints the student with basic laboratory sample collection and nursing skills, including restraint, history taking, exam room techniques, and administration of medicine.
Prerequisite: Admission to the Veterinary Technology program.

ATE 1652L
Veterinary Clinical Practice Laboratory II
2 Credit
Acquaints the student with the basic knowledge of skills used in veterinary practice for anesthesia induction and monitoring, patient preparation for surgery, aseptic technique, and surgical assistance.

ATE 1741
Veterinary Medical Terminology
1 Credit
This course presents veterinary medical terminology including word parts, medical terms related to anatomical structures and physiology, body systems terminology, and abbreviations used in veterinary medical practice.
Prerequisites: College level reading, writing and math skills required.

ATE 1943
Veterinary Work Experience I
1 Credit
A course consisting of supervised clinical experience in a workplace approved and monitored by the instructor. Skills emphasized in curriculum up to this point will be reinforced.

ATE 1944
Veterinary Work Experience II
1 Credit
A course consisting of supervised clinical experience in a workplace approved and monitored by the instructor. Skills emphasized in curriculum up to this point will be reinforced.

ATE 2020C
Contemporary Clinical Issues
3 Credits
Focuses on the contemporary and anticipated developments in veterinary technology and clinical application of those developments in medicine, surgery, dentistry, radiology and behavior through lectures. Students will become familiar with related medical terms, protocols and needed materials and supplies. Students will engage in lectures and then utilize and put into application skills learned during the program.

ATE 2050
Small Animal Breeds and Behavior
1 Credit
This is a lecture-based course on canine and feline breed identification, as well as behavior and training. Discussion topics will include normal canine and feline behavior, behavior development, and causes of behavior problems in dogs and cats. The student will be exposed to training methods, will discuss or apply canine good citizen test components or corrections for common behavioral problems, and will identify numerous canine and feline breeds.

ATE 2611
Animal Medicine I
3 Credits
This course is designed to introduce veterinary technician students to immunology, vaccinology and infectious diseases.

ATE 2614
Animal Medicine II
3 Credits
The course is designed to introduce veterinary technician students to pathologies of body systems with an emphasis on non-infectious diseases.

ATE 2630
Pharmacology for Veterinary Technicians
2 Credits
Designed to explain the drug classifications pertaining to animal use, methods of calculating appropriate drug dosage, routes of administration and evaluation of drug efficacy.

ATE 2631
Small Animal Nursing I
3 Credits
This course presents technical skills of drug administration, radiography, veterinary dentistry and bandaging. This course also covers nursing care of veterinary patients including intravenous catheterization and fluid therapy, blood transfusion, enteral nutrition, bandaging, and wound management.
Co-requisite: ATE 2631L.
ATE 2631L  
Small Animal Nursing Laboratory  
2 Credits  
This course is designed to acquaint the student with treatment techniques, anesthesia, diagnostic imaging, dentistry, and bandaging procedures used in small animal veterinary patients. 
Co-requisite: ATE 2631.

ATE 2634  
Small Animal Nursing II  
3 Credits  
Advanced nursing concepts relative to patients with specified disease states will be presented. Techniques covered include alternative diagnostic imaging, jugular and peripheral central line placement, parenteral nutrition, critical care ventilation, fluid acquisition, arterial catheterization, and chest tube placement. College level reading, writing and math skills required.

ATE 2636C  
Large Animal Clinical and Nursing Skills  
2 Credits  
This course presents large animal breed identification, concepts in production animal health and housing, husbandry, restraint and common clinical procedures utilized in the practice of large animal veterinary medicine.

ATE 2638  
Animal Clinical Pathology I  
3 Credits  
This course is designed to introduce the veterinary technician to hematology, immunology, and parasitology. 
Co-requisite: ATE 2638L.

ATE 2638L  
Animal Clinical Pathology Laboratory I  
2 Credits  
This course is designed to acquaint the student with clinical laboratory procedures covered in ATE 2638. Areas of emphasis include parasitology, hematology, coagulation studies, serology, and general laboratory etiquette. 
Co-requisite: ATE 2638.

ATE 2639  
Animal Clinical Pathology II  
3 Credits  
This course is designed to introduce veterinary technician students to blood chemistry, urinalysis and cytology. 
Co-requisite: ATE 2639L.

ATE 2639L  
Animal Clinical Pathology Laboratory II  
2 Credits  
This course is designed to acquaint the student with clinical laboratory procedures covered in ATE 2639. Areas of emphasis include urinalysis, blood chemistry and gas analysis, microbiology, and cytology. 
Co-requisite: ATE 2639.

ATE 2661  
Large Animal Diseases  
2 Credit  
This course is designed to acquaint the student with the fundamentals of preventive medicine and common diseases present in large animals.

ATE 2671C  
Medicine of Laboratory Animals  
2 Credits  
A study of the technical and clinical aspects of laboratory animal care, including restraint and handling, common diseases, and nutrition.

ATE 2710  
Animal Emergency Medicine  
2 Credits  
This course is designed to acquaint the student with fundamentals of emergency veterinary medicine, including veterinary first aid, toxicology and specialized medical techniques and procedures.

ATE 2722  
Avian and Exotic Pet Medicine  
1 Credit  
Describes exotic animal and avian medical care. Veterinary technicians will understand the idiosyncrasies of these species in order to become proficient and useful to the exotic and avian practitioner.

ATE 2945  
Veterinary Work Experience III  
1 Credit  
A course consisting of supervised clinical experiences in a workplace approved and monitored by the instructor. Skills emphasized in curriculum up to this point will be reinforced.

ATE 2946  
Veterinary Work Experience IV  
1 Credit  
A course consisting of supervised clinical experiences in a workplace approved and monitored by the instructor. Skills emphasized in curriculum up to this point will be reinforced.

BCN 1210  
Construction Materials and Processes  
3 Credits  
Provides a basic understanding of materials and manufacturing processes consistent with sound engineering principles; focuses on the most prevalent sources of building materials, including wood, concrete, masonry, metals, plastics, glass and composites. Materials are evaluated with respect to relevant codes and trade publications, including the AISC, ACI, APA, ASTM and UL. Elements of sustainable design explored.
BCN 1250
Introduction Graphic Technology
3 Credits
Introduces the principles of industrial graphics. Topics include the care and use of drawing instruments, lettering, multi-view projections and sketching techniques. Designed for the student without drawing experience.
BCN 2272
Blueprint Reading
3 Credits
Includes the principles of interpreting blueprints and specifications common to the building trades. Focuses on reading details for grades, foundations, floor plans, elevations, walls, doors, windows and roofs of residential, light and heavy construction.

BCN 2291C
Construction Materials Testing
3 Credits
A hands-on laboratory involving industry standard techniques for testing construction materials to determine their physical properties with an emphasis on soils, Portland cement, concrete and asphalt. Completion of BCN 1210 strongly recommended. A special fee for face-to-face sections will be charged for this course.

BCN 2939C
Construction Capstone
3 Credits
The construction capstone course will allow the student to demonstrate the required skill sets acquired throughout the AS degree Architectural Design and Construction Technology program and will prepare the student for transition into the designing and construction industries. All aspects of design, material and building component selection, estimating and use of computer-aided design and drafting will be evaluated. This course is presented in an independent study format with assigned due dates and meeting times.

BCN 2942C
Construction Internship
3 Credits
Student works a minimum of 140 hours during one term in a pre-approved industrial job; also prepares a resume and CD-ROM portfolio of program course work.
Prerequisites: ARC 2461, BCN 2291C, TAR 2054

BCT 2770C
Construction Estimating
3 Credits
Deals with the computation of building costs for typical construction projects and the computation of labor and materials from take-off to the final estimates. Completion of BCN 1210 and ARC 2461 strongly recommended. Enrollment in ARC 2304 and ARC 2501 strongly recommended.

BRC 1301
Introduction to Financial Institutions
3 Credits
An introduction to the U.S. banking system, the role of banks, credit unions and thrifts as financial service providers. Banking principles, various products/services, and the laws and regulatory agencies governing the different types of financial institutions will be discussed.

BSC 1005
Biological Foundations
3 Credits
Designated for non-science majors. Topics include the introduction of general biological concepts, genetics, and a brief survey of living organisms.
Prerequisites: College level reading, writing and math skills are required.
Co-requisite: BSC 1005L

BSC 1005H
Honors Biological Foundations
3 Credits
Same as BSC 1005 with honors content. Honors Program permission required.

BSC 1005L
Biological Foundations Lab
1 Credit
Laboratory intended to accompany BSC 1005 lecture. A special fee for face-to-face sections will be charged for this course.
Prerequisites: College level reading, writing and math skills are required.

BSC 1025C
Nutrition and Drugs
3 Credits
Primarily intended for non-science majors. Focuses on basic nutrients and their roles in human nutrition. Topics include the problems and possible solutions of deficiency diseases, world food shortages, obesity, commonly used drugs, drug effects on the body and drug addiction. Combined and integrated with a hands-on laboratory component. A special fee for face-to-face sections will be charged for this course.
Prerequisites: College level reading, writing and math skills required.

BSC 1026C
Reproductive Biology and Inheritance
3 Credits
Focuses on the various aspects of reproductive biology and inheritance. Topics include the male and female reproductive systems, embryology/development, birth control, fertility, sexually transmitted infections (STI’s), certain effects of aging, heredity and evolution. Combined and integrated with a hands-on laboratory component to enhance the subject matters. This course is intended for students not majoring in the biological sciences or allied health. College level reading, writing, and math skills required.

BSC 1092
Human Biology
3 Credits
Intended for those not majoring in the biological sciences or allied health fields. Provides introductory material in human anatomy and physiology to focus on understanding the body organization and the interrelations of body organs systems.
Prerequisites: College level reading, writing and math skills required. Co-requisite: BSC 1092L

**BSC 1092L**

**Human Biology Lab**

1 Credit

Laboratory to accompany BSC 1092. A special fee for face-to-face sections will be charged for this course.

Prerequisites: College level reading, writing and math skills required.

Co-requisite: BSC 1092

**BSC 1420C**

**Introduction to Biotechnology**

3 Credits

This course provides an introduction to the basic foundations of biotechnology, and the techniques used in research and industry environments. This course will integrate historical background, current concepts, and techniques in DNA and RNA technology and their role in cell and genetic disorders. Students will demonstrate knowledge of the scientific method, lab safety, and best laboratory practices. Students will demonstrate competency with various instrumentation, including pH meters, centrifuge, spectrophotometer, chromatography, and gel electrophoresis.

**BSC 2010**

**Biological Science I**

3 Credits

Intended for science majors. Introduces students to the science of biology. Topics include aspects of biochemistry, cytology, cellular metabolism, and genetics.

Prerequisites: College level reading, writing and math skills are required.

Co-requisite: BSC 2010L, CHM 2045, CHM 2045L

**BSC 2010L**

**Biological Science I Lab**

1 Credit

A special fee for face-to-face sections will be charged for this course. College level reading writing and math skills are required.

Prerequisites: College level reading, writing and math skills are required.

Co-requisite: BSC 2010, CHM 2045, CHM 2045L

**BSC 2011**

**Biological Science II**

3 Credits

Intended for science majors. Emphasizes a phylogenetic survey of the five kingdoms of living organisms, together with an introduction to ecology and behavior.

Prerequisites: BSC 2010, BSC 2010L

Co-requisite: BSC 2011L

**BSC 2011H**

**Honors Biological Science II**

3 Credits

Same as BSC 2011 with honors content. Honors Program permission required.

Prerequisites: BSC 2010, BSC 2010L

Co-requisite: BSC 2011L

**BSC 2011L**

**Biological Science II Lab**

1 Credit

College level reading skills required. A special fee for face-to-face sections will be charged for this course.

Prerequisite: BSC 2010L

Co-requisite: BSC 2011

**BSC 2085**

**Human Anatomy and Physiology I**

3 Credits

Intended for Allied Health and science majors. Encompasses both anatomy and physiology; includes cell structure and function. Focuses on the study of human systems, particularly the integumentary, skeletal, muscular and nervous systems.

Prerequisites: College level reading, writing and math skills required.

Co-requisite: BSC 2085L

**BSC 2085L**

**Human Anatomy and Physiology Laboratory**

1 Credit

A special fee for face-to-face sections will be charged for this course.

Prerequisites: College level reading and writing and math skills are required.

Co-requisite: BSC 2085

**BSC 2086**

**Human Anatomy and Physiology II**

3 Credits

Focuses on cardiovascular, respiratory, digestive, endocrine, immune, lymphatic, urinary and reproductive systems.

Prerequisite: BSC 2085

Co-requisite: BSC 2086L

**BSC 2086L**

**Human Anatomy and Physiology II Laboratory**

1 Credit

College level reading and writing skills are required. A special fee for face-to-face sections will be charged for this course.

Prerequisite: BSC 2085L

Co-requisite: BSC 2086

**BSC 2419C**

**Plant and Animal Cell Culture**

3 Credits

This course will introduce the skills used in the biotechnology industry for plant, and animal cell culture. This course emphasizes on hands-on training in the principles and practices of cultivation, maintenance and preservation of established cell lines, including implementation of these practices in project design, and management. Students will gain extensive knowledge of how to grow bacteria, plant and animal cells in culture flasks and plates using aseptic techniques. Students will also learn to operate and maintain laboratory equipment
such as centrifuges, pH meters, analytical balances, laminar flow hoods, spectrophotometers, microscopes, and CO2 incubators.
tors; prepare cell growth media, reagents, buffers, and stains following standard operating procedures (SOPs).
Prerequisites: BSC 2427, BSC 2427L

**BSC 2420**
**Biotechnology I**
3 Credits
This course will focus on recombinant DNA and RNA technology, and genetic engineering. The course will present the basics of genomics and proteomics with DNA protein structure function relationship. This course will introduce biomedical biotechnology, pharmacogenomics, regenerative medicine, gene therapy, cloning and stem cell applications. Practical applications of biotechnology will be explored.
Prerequisites: BSC 2010, BSC 2010L, CHM 2045, CHM 2045L Co-requisite: BSC 2420L

**BSC 2420L**
**Biotechnology I Laboratory**
2 Credits
This laboratory course will provide practical hands-on experience in basic biotechnology laboratory methods and techniques.
Prerequisites: BSC 2010, BSC 2010L, CHM 2045, CHM 2045L Co-requisite: BSC 2420

**BSC 2427**
**Biotechnology II**
3 Credits
This course will provide a relatively in-depth exploration of modern biotechnology as required for the study, development, and application of genetic engineering and biomedical biotechnology. There will be emphasis on pharmacoeconomics, stem cell technology, and immune-biology. The practical applications of forensics, bioremediation, and medical, animal, plant biotechnology will be examined.
Prerequisites: BSC 2420, BSC 2420L Co-requisite: BSC 2427L

**BSC 2427L**
**Biotechnology II Laboratory**
2 Credits
This laboratory course will continue the study of modern molecular and cell biology with focus on advanced methods and techniques of biotechnology, emphasizing genomics, proteomics, genetic engineering and recombinant DNA technology.
Prerequisites: BSC 2420, BSC 2420L Co-requisite: BSC 2427

**BSC 2435C**
**Bioinformatics**
3 Credits
Students will gain hands on experience in performing bioinformatics analysis using both nucleic acids and protein sequences. Use of open source software and publicly available databases such as NCBI will be demonstrated and conceptual understanding of associated algorithms and statistics will be applied to resulting data analysis. Specific topics to be covered include file formatting and management; retrieval, submission, and alignment of sequences using the most current tools, gene expression; phylogenetics; and primary literature searches.
Prerequisites: BSC 2420, BSC 2420L

**BSC 2943**
**Biotechnology Internship**
3 Credits
The objective of this course is to provide students with meaningful work experience. This is a practical application of procedures and professionalism in real world settings with biotechnology and closely related fields.
Prerequisites: BSC 2427, BSC 2427L

**BUL 2241**
**Business Law I**
3 Credits
Covers the main concepts of legal institutions, the legal environment, business ethics, public and private business law, contracts, business regulations the UCC (Uniform Commercial Code) and related laws.
Prerequisites: College level reading and writing skills required.

**BUL 2242**
**Business Law II**
3 Credits
Covers commercial paper, agency, partnerships, corporations, secured transactions, bankruptcy, securities regulations, real and personal property, trusts, wills and associated legal problems. Prerequisite: BUL 2241

**CAP 1023**
**Introduction to Game Development**
3 Credits
Survey of the various aspects of game development including: game programming and scripting, design, modeling and rendering. Students will work on projects involving design and storyboarding, computer programming and scripting, as well as multimedia presentations and artwork. Aspects of the gaming industry will be covered to include human computer interaction, mathematical and physics consideration, and the business of game production and distribution.
Prerequisites: CGS 1000

**CAP 2042**
**Game Design and Development - Modeling**
3 Credits
In this hands-on course the student will practice creating 3D models using game and simulation software. The student will perform polygonal as well as NURBS modeling to create programmable 3D objects capable of being rendered for simulation software and computer games.
Prerequisite: CAP 1023

**CAP 2043**
**Game Design and Development - Rigging**
3 Credits
In this hands-on course the student will practice rigging 3D models using game and simulation software. The student will
develop skeletons, joints and animation points to create 3D objects capable of being animated for simulation software and computer games.
Prerequisite: CAP 1023

**CAP 2041**  
**Game Design and Development - Animation**  
3 Credits  
In this hands-on course the student will practice animating 3D models using game and simulation software. The student will develop animations along paths, practice complex timing, and enhance animations with graphics editors to create 3D objects capable of being rendered for simulation software and computer games.
Prerequisite: CAP 1023

**CAP 2044**  
**Game Design and Development - Special Effects**  
3 Credits  
In this hands-on course the student will practice enhancing 3D objects and scenes using game and simulation software. The student will apply lighting effects and camera angles to objects in a 3D scene, create special effects like smoke, dust and rain, and apply complex textures to 3D objects capable of being rendered for simulation software and computer games.
Prerequisite: CAP 1023

**CAP 2816**  
**Database Management II**  
1 Credit  
Focuses on advanced data file techniques.
Prerequisite: CGS 1540

**CAP 2905-35**  
**Special Topics in Multimedia**  
3 Credits  
This course is designed to allow flexibility for presenting a variety of topics related to multimedia design and development. College level reading and writing skills are required. The course may be taken twice for up to six credits.
Prerequisite: CGS 1000

**CAP 2939**  
**Digital Media/Multimedia Technology Capstone**  
3 Credits  
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project based experience. The student's project requirements will be designed in concern with his/her area of curriculum emphasis. Permission from instructor required.

**CCJ 1010H**  
**Honors Introduction to Criminology**  
3 Credits  
Same as CCJ 1010 with honors content. Honors Program permission required.
Prerequisites: College level reading and writing skills are required.

**CCJ 1020**  
**Introduction to Criminal Justice**  
3 Credits  
Covers the historical and philosophical backgrounds of criminal justice agencies and examines the development of the courts, correctional agencies, and law enforcement processes. Topics include the Supreme Court, the 14th Amendment, individual rights, and requirements and opportunities in the law enforcement and correctional fields.

**CCJ 1488**  
**Ethics in Criminal Justice**  
3 Credits  
This course is a practical overview of key issues, questions, and concepts in applied ethics in the field of criminal justice. The course will include the historical development of ethical theories, morality and law, and ethical decision making in law enforcement, courts, and corrections.

**CCJ 2013**  
**Introduction to Victimology**  
3 Credits  
This course is about victims of crime. It provides an introductory level review of the many facets of criminal victimization and the efforts to assist crime victims. The course covers a wide range of topics including trends and interpretations of victimization research, laws, programs, and services, the emotional and social impact of crime, victim rights and restitution and the extent of participation by victims in the criminal justice process.

**CCJ 2111**  
**Introduction to Theories of Criminal Behavior**  
3 Credits  
This course presents the major theoretical explanations of crime and criminal behavior. It focuses on the historical development of criminological theory based on various definitions of crime. The primary purpose of this course is to provide a clear overview of the major academic explanations (or theories) that dominate criminology in an effort to clarify what is known about crime based upon empirical research. To this end, this course is designed to provide students with a basic understanding of historical and current criminological perspectives, as these are the foundations upon which both criminological research and public policy are based.

**CCJ 2191**  
**Crisis Intervention in Criminal Justice**  
3 Credits
This course provides a study of human nature and the peculiarities of human behavior and how it relates to crime and delinquency with emphasis on how this behavior relates to the duties and responsibilities of the criminal justice practitioner. The course will emphasize abnormal behavior and how criminal justice practitioners should react with primary emphasis on the behavioral aspects of people in crisis situations and how criminal justice practitioners should respond. The course will deal with issues of police crisis intervention and crisis management.

CCJ 2618
Forensic Psychology
3 Credits
This course is an examination of the psychology of human behavior as it relates to crime. The student will be introduced to psychopathology, the sexually violent offender, and serial murderers. The student will also examine violent juvenile offenders and the process of psychological conditioning which allows them to commit violent criminal acts. The student will also be introduced to criminal profiling. It is recommended that the student complete PSY 2012 before taking CCJ 2618.

CCJ 2509
Introduction to Street Gangs
3 Credits
This course will examine the history of gangs, how to identify gang activity, including gang specific colors, clothing, symbols and signs. Traditional gang patterns as well as non-traditional hybrid gangs will be included into this curriculum along with their use of violence, drugs and guns. Topics will include a national overview of major types of gang activity around the United States. Students will study reasons why youth join gangs and discuss community gang assessments and responses. In addition, this class will provide information on appropriate prevention, intervention and suppression responses to gangs.

CCJ 2600
Criminal Deviant Behavior in Society
3 Credits
Studies the various deviant behaviors with which criminal justice practitioners interact daily. Topics include the nature of deviance, sexual deviance, alcoholism, drug addiction, mental illness, violence, and suicide.

CCJ 2610
Introduction to Criminal Typologies
3 Credits
The primary goal of this course is for students to recognize and understand the utility of constructing typologies as a precursor to understanding criminal behavior. Students will review the differences in varying patterning of criminality.

CCJ 2686
Introduction to Victim Advocacy
3 Credits
This course introduces the students to the responsibilities of victim advocates working within the criminal justice system. The course will cover the roles of the victim advocate when dealing with crime victims, victim families, the police, the prosecution, and the court system. Topics will include the background and history of victim advocacy, laws governing victim rights and victim compensation, and techniques victim advocates utilize when dealing with victims of abuse, sexual assault, domestic violence, and other violent crimes as well as when dealing with the families of homicide victims. This course will also cover the role of the victim advocate in areas involving suicide prevention and crisis intervention.
CCJ 2720  
**Introduction to Criminal Justice Research Methods**  
3 Credits  
The primary goal of this course is for students to recognize and understand the basics of research structure within the criminal justice and criminology disciplines. Upon successful completion of this course, students will have an understanding of the social scientific approach which includes the fundamental concepts of ethics, research design, data collection and analysis, and finally interpretation.

CCJ 2910  
**Guided Independent Research**  
3 Credits  
An individualized study project which applies the objective approach in the observation and reporting of information relating to social problems, with a focus on understanding and interpreting data, as well as basic statistics. Documented research paper required and must relate to a criminal justice subject area. College level reading and writing skills required. Prerequisites: Restricted to Criminal Justice majors only.

CCJ 2935-9  
**Seminar on Criminal Justice Issues**  
3 Credits  
Focuses on selected topics and issues not usually covered in other courses.

CCJ 2940  
**Criminal Justice Internship**  
3 Credits  
Provides an opportunity for the student with no criminal justice experience to observe the criminal justice system in operation. The student will be expected to compare classroom theory with the day-to-day operation of the criminal justice agency and the roles and responsibilities of the professional in the field. The student will be required to spend a total of 100 clock hours, spread over the semester, in the agency. Prerequisites: Restricted to Criminal Justice majors only.

CET 1112C  
**Basic Digital Systems**  
3 Credits  
This course is an introduction to basic digital electronics and is for the student who has previously taken EET 1083C or will be taking both classes in the same semester. Topics covered in this course are computer number systems, Boolean algebra, combinational logic circuits, logic family characteristics, and flip flops. Laboratory exercises will be assigned to reinforce the major concepts covered in the lecture segment of the courses. Prerequisites: College level reading, writing and math skills required.

CET 1123C  
**Introduction to Microprocessors/Microcontrollers**  
3 Credits  
This introductory course presents material on microprocessing. Topics include the microprocessor/microcontroller chip and its architecture, bus systems, memory map, input/output devices, interface devices, machine and assembly languages, instructions, and addressing modes. Laboratory exercises are included. Prerequisite: CET 1112C

CET 1172C  
**PC Upgrading and Repair: Hardware**  
3 Credits  
Covers the knowledge and skills necessary for upgrading and repairing the hardware of a typical personal computer (PC). Includes the study of microprocessors, basic bus architectures, input/output (I/O) interface types, PC storage, printers, various types of semiconductor memories found in a typical PC, basic networking and network cabling concepts. Also studied is the layout of the drives set up by a disk operating system and how the operating system works with the hardware. This course will further prepare the student for the A+ Certification test. Laboratory exercises are included. Prerequisite: CGS 1000 or permission of instructor.

CET 1174C  
**PC Upgrading and Repair: Software**  
3 Credits  
This course covers advanced PC software, both operating systems and system software. Concepts are introduced that provide the student with a complete, step-by-step approach for learning the fundamentals of supporting and troubleshooting computer software. Computer service business concepts are also introduced. This course will further prepare the student for the A+ Certification test. Laboratory exercises are included. Prerequisite: CGS 1000 or permission of instructor.

CET 1600  
**Cisco Network Fundamentals**  
3 Credits  
Prepares a student to apply and understand the basics of networking hardware. Course covers the OSI model and industry
standards; network topologies; IP addressing, including subnet masks; and basic network design. This is the first of a four-part series designed to prepare students for the Cisco Certified Networking Associate examination.
Prerequisite: CTS 1305.

CET 1610
Cisco Switching, Routing, and Wireless Essentials
3 Credits
Designed to prepare a student to apply and understand the basics of networking hardware. The course covers beginning router configurations; routed and routing protocols; and introduction to LAN switching. This is the second of a four-part series to prepare students for the Cisco Certified Networking Associate examination. The first part of this series is covered in CTS 1305.
Prerequisite: CET 1600

CET 2113C
Digital Systems Analysis
3 Credits
This course is a continuation of the basic digital electronics covered in CET 1112C. The analysis of combinational logic and sequential logic circuits is covered in the lecture segment of the course. Circuits include adder/subtractor, registers, counters, multiplexors, and others. Laboratory exercises will be assigned to reinforce these major concepts and circuits.
Prerequisite: CET 1112C

CET 2152C
Advanced Microprocessors
3 Credits
Covers the communications between the microprocessor and external devices. Topics include writing and debugging communications programs, analyzing and building interface circuits. Laboratory exercises are included.
Prerequisites: CET 1123C, CET 2113C

CET 2335C
Total Microcomputer Systems
3 Credits
This course covers the total microcomputer system, including system construction (architecture), programming and hardware, I/O interfacing, diagnostic testing, maintenance and troubleshooting.
Prerequisites: CET 2113C

CET 2615
Cisco Enterprise Networking, Security, and Automation
3 Credits
Designed to prepare a student to apply and understand the advanced principles and applications of networking hardware. The course covers advanced router configurations; LAN switching; network management; and advanced network design. This is the third of a four-part series to prepare students for the Cisco Certified Networking Associate examination.
Prerequisites: CET 1610

CET 2620
Cisco WAN Technologies
3 Credits
Designed to prepare a student to apply and understand the advanced principles, applications, and implementation of networking hardware. The course covers advanced network design projects and advanced network management projects. This is the fourth of a four-part series to prepare students for the Cisco Certified Networking Associate examination.
Prerequisites: CET 2615

CET 2620
Cisco WAN Technologies
3 Credits
Designed to prepare a student to apply and understand the advanced principles, applications, and implementation of networking hardware. The course covers advanced network design projects and advanced network management projects. This is the fourth of a four-part series to prepare students for the Cisco Certified Networking Associate examination.
Prerequisites: CET 2615

CET 2939
Computer Engineering Technology Capstone
3 Credits
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project-based experience. The student's project requirements will be designed in concert with his/her area of curriculum emphasis. Permission from instructor required.

CGS 1000
Introduction to Computers and Technology
3 Credits
Provides students with an introductory overview of the Internet, World Wide Web, impact of computers on society and business, historic development of data processing, basic functions and use of word processing, spreadsheet, database, and presentation system and desktop publishing software applications, basic skills using a Web browser and search engine, and careers in the field of computer science.

CGS 1000H
Honors Introduction to Computers and Technology
3 Credits
Same as CGS 1000 with honors content. Honors Program permission required.

CGS 1103
Project Management
3 Credits
This course introduces the student to project management concepts, practices, and terminology. Topics include project life cycle, project management processes, managing projects, procurement management, quality, human resource management, and risk assessment.
Prerequisites: CGS 1000

CGS 1107
Introduction to Computers
1 Credit
An introductory computer literacy course for the general student population with emphasis on current technology and the implications for and the effects on our society. Topics will include cyber space; communications, including the impact of the Internet and World Wide Web; ethical, privacy, environmental, and health related issues. Software applications will include a brief introduction to Windows, word processing, spreadsheets, and graphics. Students will complete a variety of
short cross curricular projects, integrating critical thinking skills and cooperative learning.

**CGS 1160**
**Desktop Information Management**
1 Credit
A general introduction to the basic capabilities of a desktop information management program, such as Outlook. Topics covered include organizing information, managing your time and schedule, and communicating with other people.

**CGS 1500**
**Applied Word Processing**
1 Credit
Focuses on basic word processing applications, with an emphasis on term papers, reports and resumes. Prerequisite for this course are OST 1142 or ability to type 20 wpm or permission of instructor.

**CGS 1510**
**Spreadsheet Applications I**
1 Credit
Focuses on basic spreadsheet applications such as replication, automatic recalculation, financial modeling, analysis and projection, and general mathematical calculations. Prerequisites: CGS 1000 or OST 1142 or permission of the instructor.

**CGS 1520**
**Electronic Presentations I**
1 Credit
Focuses on creating electronic presentations using text, graphic images, charts, sound, video and animation. Different types of presentations will be created to communicate information in an organized manner for educational and professional business settings. Prerequisites: CGS 1000

**CGS 1521**
**Adobe Photoshop Elements**
1 Credit
Introduces Adobe Photoshop Elements program. Focuses on simple editing techniques and manipulating and modifying objects. Prerequisite: CGS 1000

**CGS 1540**
**Database Management I**
1 Credit
Teaches how to work effectively with a data management application, with an emphasis on assembling and organizing data in manageable records and files. Prerequisites: CGS 1000

**CGS 1544**
**Internet Basics**
1 Credit
An introductory course designed to teach the basics of navigating the Internet and the World Wide Web. Topics include internet etiquette, using search engines and file transfer protocols. A special fee for face-to-face sections will be charged for this course. Prerequisite: CGS 1000
CGS 1555  
**Introduction to the Internet**  
3 Credits  
An introductory course designed to teach the basics of navigating the Internet and the World Wide Web. Students participate in online and off-line activities such as accessing the Internet, sending electronic mail, browsing newsgroups, and completing research activities. Also discussed is internet etiquette acceptable behaviors and standards of conduct.  
A special fee for face-to-face sections will be charged for this course.  
Prerequisite: CGS 1000

CGS 1577  
**Presentation Systems**  
3 Credits  
Students in this course learn how to design and develop multimedia presentations using linear design. Students learn the differences between a presentation program and an authoring program. Project components will include text, graphics, sound, video, and animation. Students will learn to create, import, and scan these components.  
Prerequisite: CGS 1000

CGS 1761  
**Computer Operating Systems**  
3 Credits  
This course provides an overview of computer operating systems. Basic theories, concepts and terminology, and evolution of computer operating systems are covered. Development, function, and comparisons of common mobile, desktop, and server operating systems are discussed. In particular, this class is meant to introduce concepts such as user interfaces, file systems, process management, memory management, input/output management, and communication.  
Prerequisite: CGS 1000

CGS 1871  
**Multimedia Authoring I**  
3 Credits  
Introduces the student to multimedia basics, application structure, and organization. Focus is on the conceptual elements of multimedia implementation and authoring basics.  
Prerequisites: CGS 1000

CGS 2091  
**Information Technology: Ethical and Legal Issues**  
3 Credits  
After taking this course the student will be able to identify different types of computer crime and distinguish the various types of law applicable. Existing and emerging legislation pertaining to computer crime will be presented. The student will be exposed to various types of incidents and the proper evidence handling techniques. Ethics codes will be presented and discussed.
CGS 2105  
**IT Project Management Software Applications**  
3 Credits  
This course will introduce students to software applications used in project management and project planning. Topics will include planning, work breakdown structure, task time estimations, cost, and baseline project plan evaluation and adjustments. Prerequisite: CGS 1000, College level reading, writing, and math skills are required.

CGS 2108  
**Advanced Computer Applications**  
3 Credits  
An advanced applications course which covers and integrates word processing, spreadsheets, database, and presentation software.  
Prerequisite: CGS 1000

CGS 2301  
**Management Information Systems**  
3 Credits  
Focuses on the role of information systems in the management process, with emphasis on the various aspects of processing data, characteristics of communication and information, and problem solving.  
Prerequisite: CGS 1000

CGS 2511  
**Spreadsheet Applications II**  
1 Credit  
Emphasizes advanced spreadsheet techniques.  
Prerequisite: CGS 1510

CGS 2512  
**Spreadsheets III**  
1 Credit  
This is a continuation of CGS 2511, Spreadsheets II. More advanced concepts and macro programming are emphasized.  
Prerequisite: CGS 2511

CGS 2525  
**Electronic Presentations II**  
1 Credit  
This is a continuation of CGS 1520, Electronic Presentations I. Advanced concepts are emphasized.  
Prerequisite: CGS 1520

CGS 2541  
**Database Design**  
3 Credits  
Focuses on the use and development of a database program, with an emphasis on loading, modifying and querying capabilities. Topics include storage devices, data design, administration, analysis and implementation, data structures, indexed and direct file organizations, and hierarchical network and relational models. Students enrolled in a degree or college credit certificate program must complete all prerequisites.  
Prerequisite: CGS 1000

CGS 2585  
**Desktop and Internet Publishing**  
3 Credits  
Covers principles and techniques of document and internet publishing using an industry standard software program(s). Topics include design principles, document creation and layout, and publishing techniques for print and the Web.  
Prerequisite: CGS 1000

CGS 2786  
**Web 2.0 Applications**  
3 Credits  
This course will cover various Web 2.0 applications. Topics include forms, blogs, wikis, calendars, slideshows and Web hosting.  
Prerequisite: CGS 2822

CGS 2804  
**Vector Graphic Applications**  
3 Credits  
This course concentrates on the methods and computer applications used in two-dimensional vector-based software applications. Topics include illustration and design strategies.  
Prerequisite: CGS 1000

CGS 2820  
**WEB Authoring HTML**  
3 Credits  
Introduces the student to the fundamentals of Web page authoring. Students will learn how to use HTML to create Web pages. They will learn how to generate HTML links, add graphics, create image maps, tables, frames, and forms. Advanced techniques include new HTML tags, virtual reality, audio, and video and presentation of other non-standard data. They will also learn how to use FTP to upload and download files.  
Prerequisite: CGS 1000

CGS 2821  
**Graphics Design Multimedia and Internet**  
3 Credits  
Introduces graphic design for the Internet and multimedia projects. Focus is on instructional design process, effective page design, and scanning techniques. Students will use digital imaging software such as Photoshop to create effective computer screen design elements. Color theory and visual communication is introduced.  
Prerequisite: CGS 1000

CGS 2822  
**Web Site Creation**  
3 Credits  
This course is designed to introduce the student to software application tools necessary to create a website. The student will use and apply a website creation program such as FrontPage, Dreamweaver, Cold Fusion, etc. They will have the opportunity to develop a website from initial concept to publication.
Prerequisite: CGS 2820

**CGS 2827**  
Advanced Graphics Design for Multimedia and Internet  
3 Credits  
A continuation of CGS 2821. Focus is on advanced graphic design techniques. Students use digital imaging software to prepare graphics for use in effective design elements.  
Prerequisites: CGS 2821

**CGS 2874**  
Multimedia Authoring II  
3 Credits  
A continuation of CGS 1871 Multimedia Authoring I, with emphasis on advanced authoring skills. Students will develop in-depth projects using video, audio, text, hypertext, and graphics while controlling the program direction.  
Prerequisites: CGS 1871

**CGS 2876**  
Digital Audio/Video Design  
3 Credits  
Introduces the student to the essential software, tools, and techniques commonly used by Web and multimedia designers to produce digital audio and video. Various audio/video programs such as Real Player, MusicMatch, CakeWalk, Adobe Premiere, and After Effects may be used in this course.  
Prerequisite: CGS 1871

**CGS 2877**  
Digital Animation Design  
3 Credits  
Introduces the student to the essential software, tools, and techniques commonly used by Web and multimedia authors and designers to produce digital animation effects. Various animation programs such as gif animators, 3D animation applications, Adobe Fireworks, Flash, and Shockwave may be used in this course as well as multimedia authoring programs such as Adobe Director or Toolbook.  
Prerequisites: CGS 1871

**CGS 2930-35**  
Special Topics in Internet Services Technology  
3 Credits  
This course is designed to allow flexibility for presenting a variety of topics related to Internet services technology. The course may be taken twice for up to six credits. College level reading and writing skills are required.  
Prerequisite: CGS 1000

**CHD 1800**  
Introduction to Early Childhood Administration  
3 Credits  
Designed to provide potential and current early child administrators with the opportunity of satisfying one of the educational requirements for the Foundational Level Child Care and Education Administrator Credential and one of the three courses required for the Level Two Administrator Credential as defined by the State of Florida. It is intended to introduce the needed skills and information in the following areas: developmentally appropriate childcare environments, leadership for childcare settings, financial and legal issues of childcare, and developmentally appropriate education curriculum.  
Prerequisites: High School Diploma or equivalent, 30 hour Florida Introduction Child Care Course, 10 hours DAP Special Needs, CDA or equivalent.

**CHM 1020C**  
Chemistry and Society  
3 Credits  
A study of how chemicals directly affect our lives, including drugs, biocides, food additives, detergents, cosmetics, and plastics. Laboratory experimentation will be included. A special fee for face-to-face sections will be charged for this course.  
Prerequisites: College level reading, writing and math skills are required.

**CHM 1025**  
Introductory Chemistry  
3 Credits  
Covers an elementary treatment of mathematical tools of the chemist, atomic theory, periodic arrangement of the elements, chemical bonding, nomenclature of compounds, chemical reactions, and stoichiometry. Designed for students with no chemistry background.  
Prerequisites: College level reading, writing and math skills are required.  
Co-requisite: CHM 1025L, MAC 1105

**CHM 1025H**  
Honors Introductory Chemistry  
3 Credits  
Same as CHM 1025 with honors content. Honors Program permission required.  
Prerequisites: College level reading, writing and math skills are required.  
Co-requisite: CHM 1025L

**CHM 1025L**  
Introductory Chemistry Laboratory  
1 Credit  
Accompanies CHM 1025. Topics include laboratory techniques, measurement, chemical reactions, abbreviated qualitative analysis, and quantitative chemistry techniques. College level reading, writing and math skills are required. A special fee for face-to-face sections will be charged for this course.
Prerequisites: College level reading, writing and math skills are required.
Co-requisite: CHM 1025

**CHM 1032**
**Chemistry for Health Sciences**
3 Credits
A chemistry course designed for allied health programs. Focuses on basic chemical and physical principles applied to the life process. Topics include inorganic, organic, and physiological chemistry. Mathematics applications are minimal.
Prerequisites: College level reading, writing and math skills are required.
Co-requisite: CHM 1032L

**CHM 1032L**
**Chemistry for Health Sciences Laboratory**
1 Credit
Accompanies CHM 1032. Topics include laboratory techniques, measurement, chemical bonding, radioactivity, gases, and examples of common inorganic, organic, and biological reactions. A special fee for face-to-face sections will be charged for this course. Prerequisites: College level reading, writing and math skills are required.
Co-requisite: CHM 1032

**CHM 2045**
**General Chemistry I**
3 Credits
First part of a two-semester sequence. Topics include advanced treatment of stoichiometry, atomic theory, chemical bonding, liquid, solid, and gaseous behavior, solutions and thermodynamics. College level reading, writing and math skills are required.
Prerequisites: CHM 1025 or CHM 1032 or satisfactory grade on the chemistry placement test and MAC 1105.
Co-requisite: CHM 2045L

**CHM 2045L**
**General Chemistry I Laboratory**
1 Credit
Accompanies CHM 2045. Topics include analytical techniques, physical property determinations, gas laws and thermochemical processes. College level reading, writing and math skills are required. A special fee for face-to-face sections will be charged for this course.
Prerequisite: CHM 1025L or CHM 1032L or satisfactory grade on the chemistry placement test and MAC 1105.
Co-requisite: CHM 2045

**CHM 2046**
**General Chemistry II**
3 Credits
Second part of a two-semester sequence. Topics include liquid and solid behavior, physical properties of solutions, kinetics, chemical equilibria, electrochemistry and chemical thermodynamics. College level reading, writing and math skills are required.
Prerequisite: CHM 2045 and CHM 2045L with a minimum grade of C.
Co-requisite: CHM 2046L

**CHM 2046L**
**General Chemistry II Laboratory**
1 Credit
This course accompanies CHM 2046. Topics include spectrophotometric determinations, chemical kinetics, electrochemistry, inorganic qualitative analysis and chemistry equilibria. College level reading, writing and math skills are required. A special fee for face-to-face sections will be charged for this course.
Prerequisite: CHM 2045L
Co-requisite: CHM 2046

**CHM 2210**
**Organic Chemistry I**
4 Credits
First part of a two-semester sequence. Focus is on the chemistry of hydrocarbons. Topics include nomenclature, chemical bonding, synthetic methods, characteristic reactions, spectroscopic analyses, reaction mechanisms and structure determinations. College level reading, writing and math skills are required.
Prerequisites: CHM 2046, CHM 2046L
Co-requisite: CHM 2210L

**CHM 2210L**
**Organic Chemistry I Laboratory**
1 Credit
Accompanies CHM 2210. Topics include organic separations, synthesis, spectroscopy, chromatography and identification of organic compounds. College level reading, writing and math skills are required. A special fee for face-to-face sections will be charged for this course.
Prerequisites: CHM 2046, CHM 2046L
Co-requisite: CHM 2210

**CHM 2211**
**Organic Chemistry II**
4 Credits
Second part of a two-semester sequence. Focus is on the chemistry of hydrocarbon derivatives. College level reading and math skills are required.
Prerequisites: CHM 2210, CHM 2210L
Co-requisite: CHM 2211L

**CHM 2211L**
**Organic Chemistry II Laboratory**
1 Credit
Accompanies CHM 2211. Topics include the analysis of NMR spectra, multi-step synthesis and organic qualitative analysis. College level reading and math skills are required. A special fee for face-to-face sections will be charged for this course.
Prerequisite: CHM 2210L
Co-requisite: CHM 2211
CHM 2910L
Guided Undergraduate Research
1 Credit
This course is intended for students majoring in STEM areas who desire to gain experience with research techniques, methods and procedures. It is intended to create supervised study through guided design of laboratory experiments, study of relevant literature, and achievement in specific research skills. Students will develop independence in the laboratory regarding their research project and will learn how to write a scientific communication.
Prerequisites: CHM 2046, CHM 2046L

CHS 2440
General Chemistry for Engineers
3 Credits
This course is intended to provide engineering students with a background in important concepts and principles of chemistry, including atomic theory, chemical bonding and its consequences to materials structure and bulk properties, thermodynamics, equilibria, kinetics and electrochemistry. Qualitative and quantitative problem-solving of current engineering and technological applications will be emphasized. This course is for engineering students only, and is NOT for chemical engineers.
Prerequisites: MAC 1105, CHM 1025
Co-requisite: CHS 2440L

CHS 2440L
General Chemistry for Engineers Laboratory
1 Credit
This course accompanies CHS 2440. Topics include inorganic qualitative and quantitative analysis, gas laws, chemical kinetics, chemical equilibria, thermodynamics, and electrochemistry. A special fee for face-to-face sections will be charged for this course.
Prerequisites: CHM 1025, CHM 1025L
Co-requisite: CHM 2440

CIS 2321
Systems Analysis
3 Credits
Focuses on the systems development life cycle, with an emphasis on identifying and assessing system requirements, analyzing and designing new systems in relation to use in business.
Prerequisites: CGS 2301, CGS 2541

CIS 2352C
Information Assurance Local Systems
3 Credits
Hands-on course teaches students how to hack into information systems using ethical standards. The student will learn local system vulnerabilities, the tools and techniques used to exploit vulnerabilities such as social engineering, buffer overflows, etc., and how to defend against attacks. Suggested prerequisite: CTS 2301C.
Prerequisite: CNT 1401

CIS 2353
Security Management and Penetration Testing
3 Credits
In this course the student will learn the steps necessary to perform penetration testing. The student will create an audit project plan based on various information technology scenarios and then practice performing fieldwork, analyzing data to draw conclusions and preparing an audit report offering recommendations. Suggested prerequisite: CTS 2301C
Prerequisite: CNT 1401

CIS 2359C
Information Assurance Network Systems
3 Credits
Hands-on course teaches students how to hack into information systems using ethical standards. The student will learn network system vulnerabilities, the tools and techniques used to exploit vulnerabilities such as SQL Injection, Denial of Service, etc., and how to defend against attacks.
Prerequisite: CNT 1401

CIS 2381C
Computer Forensics and Incident Response
3 Credits
The student will design and develop strategies for inspecting potentially corrupted servers, networks and workstations. In this hands-on course the student will practice detecting possible intrusion inspecting log files, tracking violators. Students will practice computer forensic exercises using detection tools and tracking methodologies.
Suggested prerequisite: CTS 2301C
Prerequisites: CNT 1401

CIS 2598
Cybersecurity Capstone
3 Credits
This course is designed for students to demonstrate their knowledge and skills applicable to the area of cyber security and its core competencies. The course is designed as a project based experience to develop a portfolio quality product. The students project requirements will be designed along with instructor input to demonstrate curriculum expertise.
Prerequisites: College level reading, writing and math skills required.

CIS 2621
Cybersecurity Operations Implementation
3 Credits
This course is the second of two advanced cybersecurity courses where students learn core network security concepts and techniques that are needed in today’s Security Operations Center (SOC) to monitor, detect, analyze, and respond to threats on a network using a variety of security tools. Students will acquire hands-on experience on how to detect and respond to security incidents while preparing for the CCNA Cybersecurity Operations certification. College level, reading, writing and math skills required.
Prerequisite: CIS 2772
CIS 2772
Cybersecurity Operations Fundamentals
3 Credits
This course is the first of two advanced cybersecurity courses where students learn core network security concepts and techniques that are needed in today’s Security Operations Center (SOC) to monitor, detect, analyze, and respond to threats on a network using a variety of security tools. Students will acquire hands-on experience on how to detect and respond to security incidents while preparing for the CCNA Cybersecurity Operations certification. College level reading, writing and math skills required.
Prerequisites: CET 1600, CNT 1401

CIS 2900 - 2904
Special Topics in IT Project Management
3 Credits
This course is designed to allow flexibility for presenting a variety of topics related to IT Project Management. The course may be taken twice for up to six credits. College level reading and writing skills are required.
Prerequisite: CGS 1000

CIS 2905, 2932-36
Special Topics in Computer Administration
3 Credits
This course is designed to allow flexibility for presenting a variety of topics related to computer administration. The course may be taken twice for up to six credits. College level reading and writing skills are required.
Prerequisite: CGS 1000

CIS 2939
Computer Information Administrator Capstone
3 Credits
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project-based experience. The student’s project requirements will be designed in concern with his/her area of curriculum emphasis. Permission from instructor required.

CJE 1000
Introduction to Law Enforcement
3 Credits
This course covers the history and philosophy of law enforcement in America including the organization and objectives of local, state and federal agencies. Areas covered will include contemporary problems facing modern law enforcement. The course will also cover the various approaches to modern law enforcement and the selection of and training of career officers to enforce the laws in a democratic society. Topics covered will include law enforcement as a balance of social, historical, political, legal, individual and organizational forces.

CJE 1640
Introduction to Criminalistics
3 Credits
This course explains and discusses the crime laboratory and its procedures, functions and duties. Crime scene procedures and techniques for locating, preserving and security evidence will also be discussed. Selected laboratory techniques and procedures such as comparison and identification of tool markings, blood, hair, fibers, drugs, chemicals, photographs, firearms, ballistics and documents will be explained.

CJC 2162
Probation and Parole
3 Credits
Explores the history, functions, purposes and operations of community corrections programs within the criminal justice system which provide diversion, supervision and treatment of offenders. This course reviews the theories and practices of probation and parole within a community setting. The principles and methods of probation and parole systems at federal, state and local levels, court procedures, the role of the probation and parole officers and their associates in the rehabilitation process will be covered.

CJC 2940
Criminal Justice Practicum – Basic Corrections Academy
9 Credits
Articulated credits granted to students who successfully completed an FDLE state mandated certification training program in law enforcement.

CJC 1000
Introduction to Corrections
3 Credits
Provides an introduction to the historical, theoretical and objective understanding of crime, the offender and the correctional process in society. Topics include custodial procedures and theory, correctional treatment, and basic social systems in relation to crime problems.
techniques used by the crime scene investigator to collect, protect, process, and analyze crime scene evidence will be explored.

CJE 1643C  
**Advanced Crime Scene Technology**  
3 Credits  
This course explains and discusses advanced principals and theories in crime scene technology. This course will cover specialized collection procedures for biological evidence, weapons, traffic crash evidence, arson evidence; gunshot residue, blood spatter and bodies.  
Prerequisite: CJE 1642C

CJE 1653  
**Introduction to Crime Analysis and Intelligence**  
3 Credits  
This course involves an introduction to the field of crime analysis. The course will provide the student with an overview of basic criminal intelligence and investigative analysis techniques in modern law enforcement. The course will include geographic information systems and crime mapping techniques.

CJE 1680  
**Introduction to Computer Crimes**  
3 Credits  
Provides the student with an overview of crimes involving the use of computer technology and the Internet. It will cover how computer related crimes are committed and how they are investigated. Topics covered will include computer crime scene management and the legal issues involved in the prosecution of computer crimes.

CJE 2004  
**Career Choices Criminal Justice**  
3 Credit  
This course will expose the students to the diversity of requirements and career opportunities within the criminal justice system. This course will provide the students with an understanding of the different agencies within the criminal justice system including police, courts and corrections. This course will cover all levels of agencies including city, county, state and federal. The course will also cover careers related to criminal justice including juvenile justice, private investigation and security, and bail bonds agents. The course will cover the roles of these agencies and employment opportunities. The course will also provide students with information on law enforcement academies and strategies for job searching, resumes and job interviews.

CJE 2007  
**Introduction to Federal Law Enforcement and Investigations**  
3 Credit  
This course will examine criminal justice at the federal level with the emphasis on federal criminal law and its enforcement. The course will examine the role of the different federal law enforcement agencies. The course will review security, investigations, prosecutions, probations, and corrections within the federal criminal justice system. Major areas include an overview of federal crimes, elements of the United States code, and the role of federal agents in the support of prosecutions. This course will include the mission of and interrelationships between individual agencies. Topics will also include mail fraud, official bribery and corruption, organizational crime, drug enforcement, criminal civil rights violations, human trafficking, federal vs. state prosecution, and the UCMJ.

CJE 2233  
**Drug Abuse and Crime**  
3 Credits  
This course will introduce students to the negative effects of drugs, alcohol, and other substance abuse. This course will cover the problems created by the illegal use of narcotics and other dangerous substances and its relationship to criminal behavior. This course will emphasize the criminal implications and control of drug and substance abuse as well as touching on the social and historical implications.

CJE 2300  
**Police Administration and Organization**  
3 Credits  
Provides an introduction to the principles of law enforcement, organization and supporting services as they apply to staff functions, personnel recruiting, training, promotions, planning, research, inspection, control, and policy formation. Topics include functions of patrol, criminal investigation, vice control units, juvenile bureau, intelligence, sections, detention facilities, supply and transportation.

CJE 2600  
**Criminal Investigation**  
3 Credits  
Covers methods of investigation, interviews, interrogation, electronic equipment, surveillance and sources of information, with an emphasis on case preparation and problems in criminal investigations.

CJE 2614  
**Serial Killers**  
3 Credits  
This course involves an examination of serial killers and mass murderers, including the history, profiling of the offenders, and techniques for the investigation. Special issues that will be covered include media coverage and punishment.

CJE 2664  
**Advanced Crime and Intelligence Analysis**  
3 Credits  
This course is an advanced course in crime and intelligence analysis. The course will build upon the principles learned in CJE 1653 and will give the student an in-depth look into crime analysis computer applications and GIS mapping software.  
Prerequisite: CJE 1653

CJE 2671C  
**Latent Fingerprint Development**  
2 Credits
This course explains and discusses the techniques involving detection, enhancement and recovery of latent fingerprints from physical evidence. This course will cover mechanical and chemical methods and surfaces will be analyzed and evaluated for application in both theory and practice.

Prerequisite: CJE 2672C

**CJE 2672C**  
**Fingerprint Classification**  
2 Credits  
This course explains and discusses the Henry modified system of fingerprint classification. This course will deal with all aspects of fingerprint classification, identification, and filing systems and will prepare the student to conduct inked fingerprint examinations.

**CJE 2704**  
**Introduction to Child Protective Investigation**  
3 Credits  
This course introduces the students to the responsibilities of Child Protective Service investigators, the various types of child maltreatment, the characteristics of the perpetrators, and the indicators of child abuse. The course will also cover the roles of the child protective investigator, of the police, of the court system in matters of child abuse and neglect, the multidisciplinary team approach, and the laws of procedures of the dependency court system.

**CJE 2770C**  
**Forensic Photography**  
3 Credits  
This course explains and covers basic crime scene photography skills, including camera operation, exposure control, proficiency in relational photos, and flash control for crime scene and evidentiary documentation. The course will also cover special light sources and the use of filters, specialized equipment, digital cameras, and hand held video camera recorders.

Prerequisite: CJE 1642C

**CJJ 1002**  
**Juvenile Delinquency**  
3 Credits  
Focuses on the history, nature, causes and scope of juvenile crimes with an examination of the justice system and treatment facilities.

**CJJ 1004**  
**Introduction to Juvenile Justice**  
3 Credits  
This course will examine juvenile delinquency and the juvenile justice system including its legal and social history, its definitions and procedures, and an assessment of delinquency prevention and control.

**CJE 2940**  
**Criminal Justice Practicum – Basic Police Academy**  
12 Credits  
Articulated credits granted to students who successfully completed an FDLE state mandated certification training program in law enforcement.

**CJE 2941**  
**Criminal Justice Practicum – 911 Public Safety Telecommunicator**  
3 Credits  
This course will grant articulated credit as mandated by Florida’s Gold Standard Certification Articulation Agreement to students who successfully complete a State approved 911 Public Safety Telecommunicator state mandated certification training program.

**CJJ 1002**  
**Juvenile Delinquency**  
3 Credits
CJL 1000
Introduction to Law and Legal Issues
3 Credits
This course will cover the evaluation, debate, and critical analysis of law and legal issues that affect individuals, their families, and communities. Students will learn about practical aspects of criminal, civil, and constitutional law as well as domestic, immigration, and consumer law in a diverse society. The course will use case studies, simulated legal exercises, small group exercises, and analytical thought problems.

CJL 1062
Constitutional Law
3 Credits
Provides an in-depth study of criminal law, with an emphasis on the role of the Supreme Court and constitutional law as it applies to law enforcement and civil rights.

CJL 1070
Legal Rights of Prisoners
3 Credits
Survey the legal rights of inmates in correctional facilities, with an emphasis on specific cases and decisions affecting correctional practices.

CJL 1100
Criminal Law
3 Credits
Focuses on the classification and analysis of criminal acts, such as homicide, rape, assault, robbery, larceny, burglary, and auto thefts, with an emphasis on specific cases and selected court decisions. Topics include court organization, court orders, writs, warrants, and other papers.

CJL 1500
Introduction to the Court System
3 Credits
This course examines the history, traditions and philosophy of the American court system. Emphasis will be placed on the roles of the prosecutor, the judge, the defense attorney, the jurors, the defendants and the public. The course will focus on the general themes of law on the books, law in action and law in controversy. Course content will include an overview of the structure and operations of the court system with special emphasis on the Florida Court System.

CJL 2072
Civil Rights and Liability in Criminal Justice
3 Credits
This course will provide students with an overview of federal civil rights legislation and state federal tort law as it applies to criminal justice. Topics covered will include practitioner and supervisor liability, 1983 actions, 241 crimes, wrongful death actions, and various personnel laws including ADA, EEOC, age and sex discrimination and sexual harassment.
CJL 2130
Criminal Evidence and Procedure
3 Credits
Provides an introduction to criminal procedures such as arrest, search and seizure, use of force and handling evidence. Topics include the legal use and degree of force, rights of suspects and arrested persons, types of evidence, admissibility, proof and competence of evidence as related to criminal law and recent court decisions.

CJL 2610
Courtroom Presentation of Scientific Evidence
3 Credits
This course explains and discusses how to present physical, documentary, and scientific evidence in the courtroom. The course will cover proper dress, speaking, listening, and stress. The student will understand how to present courtroom testimony, especially in areas of scientific evidence. The course will also include how to prepare and present visual aids and exhibits collected at crime scenes. The course will include mock trial exercises.

CLP 1000
Psychology of Personal Growth
3 Credits
Covers the origin and development of individual needs and personality patterns, approaches to self-management, and self-control and assessment of personal value systems. Emphasis is on personal awareness and experientially based activities. Is not acceptable as a prerequisite for other psychology courses.

CLP 2140
Abnormal Psychology
3 Credits
This course examines the historical and current perspectives of the science of abnormal behavior. Topics include classification, diagnosis, theories, assessment methods, treatment, prevention, and legal and ethical issues. The course will also discuss the importance of empirically-based treatments. The impact of mental illness on the individual, family, and society are explored. Prerequisites: PSY 2012 or permission of instructor. College level reading and writing skills are required.

CNT 1401
Introduction to Network Security
3 Credits
Basic computer and network security theory, concepts and terminology are presented. The CIA triad, basic threats, intrusion techniques, vulnerabilities and their various counter measures are included. Students will also discuss ethical behaviors and basic security practices for authentication, encryption and secure network topologies. Prerequisites: CET 1600 or CTS 1305

CNT 2510
Wireless Networking
3 Credits
This course presents an overview of common wireless technologies including theories, concepts of their operation, installation, and basic troubleshooting. Basic computing and common wireless technologies are discussed as well as new trends as they develop. Wireless local area networks and integration with wired networks are also included. Prerequisite: CTS 1305.

COM 1000
Introduction to Communications
3 Credits
This course introduces students to the study of human communication and includes surveys of communication theories, perspectives, processes, concepts, roles and contexts. Students will improve basic and practical communications skills and increase active awareness and best practices for effective and ethical communication. Prerequisite: College level reading and writing skills required.

COP 1000
Programming Logic
3 Credits
Introduces programming logic, with an emphasis on problem definition, flow charts, tables, control breaks, and multi-record single processing programs. Topics include read process write-loops, array creation and retrieval, and documentation standards. Prerequisite: CGS 1000

COP 1030
Introduction to Python Programming
3 Credits
An introduction to programming using the Python language. Students will learn how basic programming ideas, such as variables, data, loops, and functions are used in Python to create useful programs. Other topics include program design, style, documentation, and working with files and text. College level reading, writing and math skills required. Prerequisite: COP 1000

COP 1120
COBOL, Beginning
3 Credits
Introduces the computer programming for business, with an emphasis on program design and development, generating reports and creating files. Topics include structured programming, testing, implementation and documentation, file structures, input and output devices, table processing and operating system facilities. A special fee for face-to-face sections will be charged for this course. Prerequisite: COP 1000

COP 1220
Programming in "C"
3 Credits
Introduces programming in the "C" language with an emphasis on basic input/output functions. Topics include interactive programming, style and methodology, top-down design and structured programming.
Prerequisite: COP 1000.

**COP 1332**  
**Visual BASIC, Beginning**  
3 Credits  
Provides a basic overview of Windows programming and applications. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: COP 1000

**COP 1812**  
**Introduction XML Authoring**  
3 Credits  
This course teaches students how to use XML to create customized tags for Web pages and to work effectively with XML. Students will develop websites integrating XML into their projects.
Prerequisite: COP 1000

**COP 2050**  
**R Programming**  
3 Credits  
R Programming is an introductory course in the R programming language. The student will learn how to install and configure the R software, use R for statistical analysis, and graphics visualization of data. This course will include reading data into R, accessing R packages, writing R functions, debugging; commenting; and code organization, applied statistical analysis using R and how to generate graphs and charts for data visualization.
Prerequisite: CGS 1000, COP 1000, STA 2023, College level reading, writing and math skills required.

**COP 2224**  
**Programming in C++**  
3 Credits  
Basic C++ programming with a survey of advanced C++ topics, including inheritance, generics (templates), modular and object-oriented programming, dynamic memory, using the standard library, and proper programming best practices including an introduction to design, testing, documentation, and deployment. Course focuses on how C++ is used for systems and embedded programming.
Prerequisites: COP 1000, and either COP 1220 or COP 2360

**COP 2344**  
**Shell Scripting**  
3 Credits  
This course is intended for students who have mastered the basic Linux/Unix operating environment and who would like to read and understand the various administrative scripts, and to write scripts to automate day to day tasks. This course is designed to teach students skills they need to effectively read, write and debug shell scripts. This course explores in detail the Bash shell scripting language. Major topics covered include reading, writing, modifying, and debugging shell scripts, the shell environment, regular expressions, text filtering with grep, sed, and the awk commands, conditional control statements and loops, interactive scripts, the use of other shell features such as variables, parameters, argument lists, shell functions, shell traps.
Prerequisites: COP 1000, CTS 1106

**COP 2360**  
**Programming in C#**  
3 Credits  
An introductory course to programming in the C# language. Emphasis is placed on the basic data, methods and classes of the C# language. Additionally, object oriented programming concepts will be introduced. Programming style and object oriented methodology will be stressed throughout the course.
Prerequisite: COP 1000

**COP 2654**  
**Mobile Platform Application Development**  
3 Credits  
This is an introductory course in application development for popular tablet and smartphone mobile platforms. Students will learn about hardware, software, and programming environments for the major types of mobile devices in current use. Students will also examine the different models for application development and distribution on these devices, plus design, code, test, and execute a mobile application.
Prerequisite: COP 1220 or COP 2224 or COP 2360 or COP 2800

**COP 2800**  
**Java Programming**  
3 Credits  
Introduces programming in Java. This course will cover the basic features of Java, including procedural programming (datatypes, variables, operators, control structures, etc.), an introduction to object-oriented programming concepts (objects and classes, abstraction, encapsulation, and inheritance), GUI programming, error handling with exceptions, and other Java techniques.
Prerequisite: COP 1000 or permission of instructor.

**COP 2805C**  
**Java Advanced**  
3 Credits  
A continuation of COP 2800. The focus is on software development workflow tasks (requirements, design, testing, deployment). Topics include advanced object orientated and functional programming in Java, collections, multi-threading, files, database use, and other features of modern Java.
Prerequisite: COP 2800

**COP 2830**  
**Scripting for the Web**  
3 Credits  
Introduces scripting languages used to enhance Web documents. Focus is on the use of scripts and how they relate to the Web environment. Students will develop applications using a
scripting language such as Visual Basic, Java Script, and/or Perl.
Prerequisites: CGS 2820, COP 1000.

COP 2833
Database-driven Web Programming: Client
3 Credits
The student will be introduced to techniques for coding Web pages that interact with back-end databases. The emphasis in this class is to develop code that runs on the client computer and to develop techniques for balancing the client-side code with server-side code. Topics covered will be specific programming language fundamentals and logic, and an introduction to data maintenance using data manipulation coding techniques. Other topics include writing secure Web code, error handling and data validation.
Prerequisite: COP 2836, Database-driven Web Programming: Server

COP 2836
Database-driven Web Programming: Server
3 Credits
The student will be introduced to techniques for coding Web pages that interact with back-end databases. The emphasis in this class is to develop code that runs on back-end servers with back-end database. Topics covered will be specific programming language fundamentals and logic, and an introduction to data maintenance using data manipulation code such as SQL, as well as an introduction to back-end DBMS concepts and terminology. Other topics include writing secure Web code, error handling and data validation.
Prerequisites: CGS 2820, COP 1000

COP 2930-35
Special Topics in Programming
3 Credits
This course is designed to allow flexibility for presenting a variety of topics related to programming. The course may be taken twice for up to six credits. College level reading and writing skills are required.
Prerequisite: CGS 1000.

COP 2939
Computer Programming Capstone
3 Credits
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project-based experience. The student's project requirements will be designed in concern with his/her area of curriculum emphasis. Permission from instructor required.

CRW 1001
Creative Writing I
3 Credits
Focuses on analyzing creative writing through class discussions and readings. Works by students and others will be critiqued. Participation on the staff of the College's literary magazine is encouraged. Prerequisite waiver by permission of instructor required.
Prerequisite: ENC 1101

CRW 1001H
Honors Creative Writing I
3 Credits
The same course description as CRW 1001 with honors content. College level writing is required. Honors Program permission required.

CRW 1002
Creative Writing II
3 Credits
Further critical analyses of both the student's own writings and the writings of others combined with the readings and discussions of the process of creative writing. Continuation of the skills developed from CRW 1001. College level reading and writing skills are required.
Prerequisite: CRW 1001

CTS 1106
Introduction to Unix
3 Credits
This course is designed to teach the Unix operating system. Emphasis will be on the Unix utility commands, the kernel software, and the shell programs. The two Unix text editors will be covered. This course will be project oriented. Additional topics include Linux and using the X Window GUI.
Prerequisite: CGS 1000.

CTS 1302
Microsoft Intermediate Server
3 Credits
Provides students with the knowledge and skills necessary for advanced Windows server services such as advanced configuring tasks necessary to deploy, manage, and maintain a Windows server infrastructure.
Prerequisite: CTS 1303 or CTS 1306 or permission of instructor.

CTS 1303
Microsoft Beginning Server I
3 Credits
This course is designed to provide students with the knowledge and skills necessary to install and configure a Microsoft server infrastructure in an enterprise environment.
Corequisite: CTS 1305 or permission of instructor.

CTS 1305
Introduction to Networking
3 Credits
Introduces the students to the basics of local area networks. Provides an overview of networking, including a history of development and the uses and benefits of networks. Students are introduced to major network components with a discussion of critical selection considerations. Covers the prerequisite concepts necessary for the Microsoft program and will provide background information for the Cisco certification program.
Prerequisites: CGS 1000 or permission of instructor.
CTS 1306
Microsoft Beginning Server II
3 Credits
This course provides students with the knowledge and skills necessary to manage and install network services, manage users and groups, manage network access, and data security, configure file and print services, and configure and manage DNS.
Prerequisite: CTS 1303 or permission of instructor.

CTS 1328
Microsoft Advanced Server
3 Credits
This course provides students with the knowledge and skills necessary to design, implement, and maintain a Windows server desktop infrastructure in an enterprise scaled, virtualized environment.
Prerequisite: CTS 1302 or CTS 1306 or permission of instructor.

CTS 2203
Introduction Adobe Acrobat
1 Credit
Provides students with the knowledge and skills necessary to create, post to the Internet, and distribute PDF files.
Prerequisite: CGS 1000

CTS 2301C
Unix/Linux Administration I
3 Credits
This course is a continuation of CTS 1106 (Introduction to Unix). The focus is on hands-on Linux system administration. Topics include system administration concepts, system installation and configuration. Additional topics include understanding the Unix file system, configuring basic system hardware and services, managing user accounts, basic system security and backups. Major Unix variants will also be covered. This course continues with CTS 2322, Unix/Linux Administration II. Student must have prerequisite or permission of instructor.
Prerequisite: CTS 1106

CTS 2311
Unix/Linux Security
3 Credits
This course covers the concepts and administration of system and network security on Unix and Linux systems. Students will gain the skills needed to protect Unix and Linux servers from various types of threats. Students will understand, plan and implement security on Linux servers including developing security policies, local system security, network security, monitoring systems and networks, basic firewall setup and the use of various security related tools (e.g., PAM, sudo). College level reading and writing skills are required.
Prerequisite: CTS 2322

CTS 2322
Unix/Linux Administration II
3 Credits
This course is a continuation of CTS 2301C, Unix Administration I. The focus is on Unix and Linux administration. Topics include software development tools, software licensing and open source issues, managing documentation and creating “man” pages, configuring network services including email, Web, and DNS. Also covered will be building and configuring custom kernels and kernel modules, patching and updating the kernel and applications, system and service monitoring and logging, and basic system security. Students will gain hands-on experience installing, configuring and using Linux.
Prerequisite: CTS 2301C

CTS 2333
Unix/Linux Networking
3 Credits
This course covers the concepts and administration of networking services on Unix and Linux systems. Topics include Windows network integration with SMB (Samba), DNS, email services and other common network services such as DHCP, FTP, LDAP and NTP (network time protocol). Students will receive basic network concepts such as network models and LANs, IPv4, IPv6 and PPT. Students will also gain hands-on experience with basic network security, and network configuration and troubleshooting using common network management tools.
Prerequisites: CTS 1305, CTS 2322. College level reading and writing skills are required.

CTS 2440
Database Programming - SQL
3 Credits
This course covers the concepts of both relational and object relational databases using the SQL programming language. Students are taught to create and maintain database objects and to store, retrieve and manipulate data. Students learn to retrieve data by using advanced techniques, grouping operations and navigational retrieval. They also learn to write SQL queries to generate report-like output. Hands-on practice using assigned projects reinforce the fundamental concepts.
Prerequisite: CGS 2541

CTS 2441
Database Administration I
3 Credits
Provides students with the knowledge and skills required to install, configure, administer and troubleshoot a specific database management system (DBMS) in a client/server environment. Topics such as backing up and restoring a database, as well as scheduling, monitoring and performance will be covered. Sizing database objects such as tables and indexes will be covered, as well as database securities. The course may be repeated one time for purposes of preparing the student as an administrator on a second database platform. Permission of instructor is required.
Prerequisite: CGS 2541

CTS 2442
Database Administration II
3 Credits
Provides students with the knowledge and skills required to install, configure, administer and troubleshoot a specific database management system (DBMS) in a client/server as well as web-based environment. Topics such as complex restoring of a database will be covered. Advanced concepts such as data warehousing, data mining and transaction processing will be covered. The course may be repeated one time for purposes of preparing the student as an administrator on a second database platform. Permission of instructor is required.
Prerequisite: CTS 2441

CTS 2445
Database Programming Advanced
3 Credits
This course covers advanced coding concepts of a specific DBMS. For example, if the student is studying MS Access, this course covers coding using Visual Basic for Applications (VBA). If the student is studying MS SQL Server, this course introduces advanced concepts using Transact SQL (TSQL). If the student is studying Oracle DBMS, the student will code in PL/SQL. Students will be taught to code programs to perform error handling and create triggers. Students will program stored procedures and custom functions, and learn to call those reusable programs. The course may be repeated one time for purposes of preparing the student as an administrator on a second database platform. Permission of instructor is required.
Prerequisite: CTS 2440

CTS 2930-35
Special Topics in Database Administration
3 Credits
This course is designed to allow flexibility for presenting a variety of topics related to database administration. The course may be taken twice for up to six credits. College level reading and writing skills are required.
Prerequisite: CGS 1000

CTS 2939
Database Technology Capstone
3 Credits
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project based experience. The student’s project requirements will be designed in concern with his/her area of curriculum emphasis. Permission from instructor required.

CVT 1000
Introduction to Cardiovascular Technology and Patient Care
3 Credits
This course should introduce the student to the field of sonography and cardiovascular. The role of a cardiovascular technologist in the health care environment. Topics also cover professionalism and health care provider. Medical and ethical issues that may affect a cardiovascular technologist will be discussed. Emphasis is placed on the foundations and origins of cardiovascular technology, orientation to sonography, learning methods, basic patient care techniques, sonographic techniques and communication skills.
Prerequisites: Admission to Cardiovascular Technology Program.
Corequisite: CVT 1261

CVT 1001
Introduction to Invasive Cardiovascular Technology
3 Credits
This course is an overview of the profession including basic skills and terminology related to historical development, current profession trends, professionalism, and professional code of ethics, professional organizations, patient confidentiality, infection control, asepsis, and basic cardiopulmonary patient assessment using electrocardiography, chest roentgenography, clinical laboratory tests, and vital signs.
Prerequisites: BSC 2085, BSC 2085L

CVT 1191
Introduction to Cardiovascular Practicum I
3 Credits
This course provides hands-on experience in the lab for the diagnostic procedure (scanning) in non-invasive echocardiography based on didactic class topics. Standard echocardiographic views in 2D, M mode, and Doppler modalities as well as basic scanning techniques will be emphasized.
Prerequisite: Admission to Program
Corequisite: CVT 1000

CVT 1220
Cardiovascular Pharmacology
2 Credits
This course is designed to provide the cardiovascular technology student with a foundation of the pharmacology needed to function in clinical experiences. This includes classifications of medications, modes of action, indications, contraindications, and their effect on the cardiovascular system and cardiac patients. The course also prepares the student to recognize basic cardiac arrhythmias, understand basic radiographic theory, safety protection, and cardiac catheterization laboratory equipment.
Prerequisite: CVT 1001
Corequisites: CVT 1800L, CVT 1260

CVT 1260
Cardiopulmonary Anatomy and Physiology
3 Credits
This course covers cardiopulmonary anatomy and physiology in detail, diffusion and transport of cardio-respiratory gases, blood gas, renal and acid base physiology, EC and basic hemodynamic analysis, cardiopulmonary exercise testing, and human gestational development of the cardiopulmonary system. The physiologic calculations related to quantification of cardiopulmonary performance are also emphasized.
Prerequisite: CVT 1001
Corequisites: CVT 1800L, CVT 1220
CVT 1261
Cardiovascular Anatomy and Physiology
3 Credits
This course is divided into four units: normal cardiovascular anatomy and physiology, embryology, congenital heart disease, and acquired cardiac and vascular diseases. The essentials of diagnosis and treatment are incorporated in these units.
Prerequisite: Admission to Program
Corequisite: CVT 1000

CVT 1800L
Invasive Cardiovascular Pre-Clinical I
3 Credits
Supervised clinical practice in the on-campus cardiac catheterization laboratory. Areas of concentration in this pre-clinical course are orientation to clinical activities that are performed in the program’s clinical affiliates’ cardiology and cardiovascular technology departments. The cardiovascular technology students will practice in the holding area and in the cardiovascular catheterization laboratory on campus. The cardiovascular areas of focus include cardiac catheterization, arrhythmias, 12-lead electrocardiography, patient care, patient education and radiation safety.
Prerequisite: CVT 1001
Corequisites: CVT 1220, CVT 1260

CVT 1801L
Invasive Cardiovascular Pre-Clinical II
3 Credits
Supervised clinical practice continues in the on-campus cardiac catheterization laboratory. This course builds on the knowledge and skills from CVT 1800L. Areas of concentration in this pre-clinical course include diagnostic left heart catheterization, diagnostic right heart catheterization, pre-and post-cardiac catheterization patient care and 12-lead ECG acquisition and clinical observation.
Prerequisites: CVT 1800L, CVT 1220, CVT 1260

CVT 2110L
Invasive Cardiovascular Clinical II
3 Credits
Clinical experience in procedures performed in the cardiovascular laboratories, including use of equipment, performing tests and patient care as it relates to the cardiovascular areas with emphasis on cardiac catheterization, ECG, stress testing, Holter monitoring, and an introduction to echocardiography.
Prerequisite: CVT 1801L
Corequisites: CVT 2420C, CVT 2805C, CVT 2660C

CVT 2211
Clinical Care Applications
2 Credits
This course presents an in-depth study of critical care hemodynamic measurements for medical, surgical, and emergency patients. Intra-aortic balloon pumping, Swan-Ganz monitoring, artificial airways, oxygen delivery devices, cardiovascular pharmacology, and basic ACLS algorithms are also presented.
Prerequisite: CVT 2420C

CVT 2320
Vascular Ultrasound I
3 Credits
This course provides an introduction to vascular imaging and peripheral vascular angiography. The student will review cerebrovascular anatomy and the peripheral vascular systems.
Prerequisites: CVT 1000
Corequisite: CVT 2320L

CVT 2320L
Introduction to Cardiovascular Practicum II
3 Credits
During this laboratory training, the student gains skills in the use of fundamental ultrasonic equipment designed to detect blood flow in peripheral arteries. It will be a lab component and a clinical component. Practice of basic vascular exams: carotid arteries, upper and lower extremity venous studies. Basic cardiac echocardiography exam.
Prerequisites: CVT 1000
Corequisite: CVT 2320

CVT 2321
Vascular Ultrasound II
3 Credits
This course introduces the characteristics of abnormalities in blood flow. Disease states, etiologies and treatments are explored. Testing modalities used to diagnose vascular diseases in the extremities and abdomen are presented.
Prerequisites: CVT 2320
Corequisite: CVT 2840L

CVT 2420C
Invasive Cardiology I
6 Credits
This course introduces the student to the specific procedures performed in the cardiac catheterization laboratory and the use of the resulting data for patient diagnosis. Additional topics include aseptic techniques, sterilization, patient assessment, radiography pharmacology, cardiac wave forms, coronary artery anatomy, equipment and tools utilized in cardiac catheterization, hemodynamic data and analysis, right and left heart catheterization, and complications and treatments including dysrhythmias that may occur during cardiac catheterization procedures. Students will practice cardiac catheterization procedures in the cardiac catheterization lab on campus.
Prerequisite: CVT 1801L
Corequisites: CVT 2660C, CVT 2805C, CVT 2110L

CVT 2421C
Invasive Cardiovascular II
3 Credits
This course is designed to tie together cardiac disease processes with diagnostic and interventional cardiac catheterization procedures. Students will be presented with classifications and the use of equipment, and techniques used in invasive cardiology. An in-depth presentation of various cardiac diseases including coronary artery disease, angina, myocardial infarction, heart failure, valve diseases, cardiomyopathies, pericardial disorders, arrhythmias, congenital anomalies, pharmacology, and repair procedures is also presented. Additionally, students learn the various calculations performed in the catheterization lab including cardiac outputs, vascular resistance, valve areas and stunts.

Prerequisite: CVT 2420C
Corequisite: CVT 2211

CVT 2500
Cardiovascular ECG
3 Credits
This course relates electrophysiological principles of EKG components to heart function. Students identify the individual components of the EKG complex and discuss the best lead placement for a diagnostic EKG versus lead placement for intra-procedural monitoring. After identifying rhythm rules, students differentiate between normal and abnormal rhythm strips and paced rhythms, in correlation with known pathologies. Students demonstrate the ability to identify heart rhythms and arrhythmias and gain the ability to set up a 12-lead EKG.

Prerequisites: Admission to the program
Corequisite: CVT 1000

CVT 2620
Cardiac Ultrasound I
3 Credits
This first course in the non-invasive cardiology series deals with the theory, rationale, application, performance and interpretation of a standard 2D echocardiogram. Standard views recommended by the American Society of Echocardiography will be performed. Measurements from M-mode and 2D will be discussed and demonstrated. This course will cover fundamentals of color flow imaging and spectral Doppler. Normal and abnormal values will be discussed.

Prerequisite: CVT 1000
Corequisite: SON 1210

CVT 2621
Cardiac Ultrasound II
3 Credits
This companion course to CVT 2620, presents an in-depth view of the diagnosis of common cardiac and vascular disease states. Instruction is provided in the application of theory, techniques, and interpretation of 2-dimensional echocardiography, M-mode, color flow imaging, and pulsed and continuous wave doppler. Advanced techniques in echocardiography are also discussed, such as stress and pharmacologic echocardiography, transesophageal echocardiography and contrast echocardiography.

Prerequisite: CVT 2620
Corequisite: CVT 2621L

CVT 2621L
Cardiac Ultrasound II Laboratory
3 Credits
This laboratory course allows the student to apply the techniques and interpretation modalities in echocardiography as it related to the cardiac abnormalities taught in CVT 2621.

Prerequisite: CVT 2620
Corequisite: CVT 2621

CVT 2660C
Non-Invasive Cardiology
2 Credits
This course presents an introduction to non-invasive cardiology and those tests performed in this area. In addition, normal and abnormal heart rhythms, ECG acquisition and analysis, patient safety, stress testing. Holter monitoring and an introduction in echocardiography are presented.

Prerequisite: CVT 1801L
Corequisites: CVT 2420C, CVT 2805C, CVT 2110L

CVT 2805C
Cardiovascular Interventional Pre-Practicum
3 Credits
Supervised clinical practice continues in the on-campus cardiac catheterization laboratory. This course builds on the knowledge and skills from CVT 1801L. Areas of concentration in this pre-clinical course include interventional cardiac catheterization, balloon angioplasty, rotational atherectomy and intracoronary stenting.

Prerequisite: CVT 1801L
Corequisites: CVT 2420C, CVT 2660C, CVT 2110L

CVT 2840
Cardiovascular Practicum I
3 Credits
This laboratory course introduces the student to non-invasive cardiology by hands-on experience with modalities discussed in CVT 2620. This course has a lab component and a clinical practicum component.

Prerequisite: CVT 2500
Co-requisite: CVT 2321

CVT 2841
Cardiovascular Practicum II
3 Credits
Students participate in clinical education at an affiliate hospital, performing procedures in accordance with industry standards. Students acquire clinical experiences and proficiencies sufficient to demonstrate competency in a variety of procedures while providing the highest level of patient care.

Prerequisite: CVT 2840
Corequisite: CVT 2621L

CVT 2842L
Cardiovascular Practicum III
4 Credits
This course is the final practicum and provides a more in-depth clinical experience to polish skills in the echocardiog-
raphy/vascular lab. There will be a lab component and a clinical practice covers cardiovascular techniques and procedures, hemodynamic monitoring, scrubbing with panning and manipulation of imaging clinical practice covers performance of 2-D echocardiography with more in-depth clinical experience in stress echocardiography, pharmacological stress, transesophageal echocardiography and other advanced techniques in non-invasive cardiology.

Prerequisite: CVT 2841
Corequisites: CVT 2920

CVT 2845L
Invasive Cardiovascular Clinical III
4 Credits
This course is designed for students to gain more in-depth clinical experience in invasive cardiology including pre- and post-cardiac catheterization activities, cardiovascular techniques, hemodynamic monitoring, intra-aortic balloon pumping, and cardiac output measurements. Clinical practice in the cardiac catheterization lab includes circulating, scrubbing, recording and manipulating the imaging equipment during both diagnostic and interventional catheterization procedures.

Prerequisite: CVT 2110L
Corequisites: CVT 2421C, CVT 2211

CVT 2846L
Invasive Cardiovascular Clinical IV
4 Credits
This course is designed for students to gain additional clinical experience and polish their skills in the cardiac catheterization laboratory performing all duties involved in diagnostic and interventional cases.

Prerequisite: CVT 2421C, CVT 2845L, CVT 2211
Corequisite: CVT 2921

CVT 2920
Seminar in Cardiac Ultrasound
3 Credits
This course is designed for students to integrate their academic knowledge with case studies observed in clinical practicum. This course will cover registry board exam preparation for the specialty in non-invasive cardiac ultrasound. This course also will cover resume preparation and job interview skills.

Prerequisite: CVT 2841
Corequisite: CVT 2842L

CVT 2921
Cardiovascular Technologist as a Professional
2 Credits
The professional relationship of the cardiovascular technologist to other health professional is presented along with a basic format for research. Resume preparation and interview skills are also discussed. Students also present case studies and receive instruction and testing in Advanced Cardiac Life Support (ACLS).

Prerequisites: CVT 2421C, CVT 2211
Corequisite: CVT 2846L

CVT 2930
Seminar in Vascular Ultrasound
3 Credits
This course covers a comprehensive review of all aspects of non-invasive vascular ultrasound and registry preparation for the specialty in non-invasive vascular ultrasound. This course is also designed for students to integrate their academic knowledge with case studies observed in clinical practicum. This will prepare students for task oriented testing.

Prerequisite: CVT 2321
Corequisite: CVT 2841

DAA 1100
Modern Dance Basics for Non-Majors
1 Credit
Modern Dance Basics is a studio course designed to introduce students with no training to the basic concepts of modern dance. The emphasis in this class will be placed upon attaining correct body alignment, learning the positions of the arms and feet, and the use of time, space, weight and energy. Students will learn basic dance vocabulary while developing flexibility, strength and musicality. This is a studio course and may be repeated 2 times for credit.

DAA 1101
Modern Dance I
2 Credits
Elementary level modern dance training is for those with entry level skills in modern dance. The course will offer students the opportunity to develop an understanding of the basic principles and concepts of modern dance technique through several movement experiences and explorations. Students explore and develop awareness of body alignment, dance vocabulary, self-awareness, coordination, strength and musicality. Attendance at and written critiques of dance performances provide an enhanced view of the scope of the dance field. This course may be taken twice for credit.

DAA 1102
Modern Dance Basics for Pre-Majors
1 Credit
Modern Dance Basics is a studio course designed to introduce students who plan to further pursue dance with a foundation knowledge of modern dance. The emphasis in this class will be placed upon attaining correct body alignment, ~ the use of time, space, weight and energy and the ability to accurately learn dance combinations and phrase work. Students will learn dance vocabulary while developing flexibility, strength and musicality. This is a studio course and may be repeated 2 times for credit.

DAA 1104
Modern Dance II
2 Credits
This studio course will serve as a continuation of Modern Dance I and will further explore basic principles of modern dance technique. It will broaden students’ awareness of dance
concepts such as momentum, weight shift, rebound and release. It will further develop dance vocabulary, body alignment, and develop an introductory framework for dance aesthetics. Attendance at and written critiques of dance performances will provide deeper insight into the dance field. This course may be taken twice for credit.

Prerequisite: Audition or Instructor Permission

DAA 1200
Ballet I
2 Credits
Elementary level ballet training for those with entry level skills in ballet. Emphasis is on correct placement and alignment of the body, a knowledge of basic ballet terminology, and the development of spatial awareness as it applies to the execution of ballet exercises, positions and steps. Attendance at written critiques of dance performances provide an enhanced view of the scope of the dance field. This is a studio course and may be repeated twice for credit.

Prerequisite: Audition or Instructor Permission

DAA 1201
Ballet Basics for Non-Majors
1 Credit
Ballet Basics is a studio course designed to introduce students with no training to the basic concepts of ballet technique. The emphasis in this class will be placed upon attaining correct body alignment, learning the positions of the arms and feet, and the understanding of the sequence of the ballet class. Students will learn basic dance vocabulary while developing strength and musicality. This is a studio course and may be repeated 2 times for credit.

DAA 1202
Ballet Basics for Pre-Majors
1 Credit
Ballet Basics is a studio course designed to introduce students who plan to further pursue dance with a foundation knowledge of ballet. The emphasis in this class will be placed upon attaining correct body alignment, positions of the arms and legs, and ability to properly execute ballet steps. Students will learn ballet vocabulary while developing flexibility, strength and musicality. This is a studio course and may be repeated 2 times for credit.

DAA 1204
Ballet II
2 Credits
Ballet II is a continuation of Ballet I. Student experiences an intensification of barre work through the use of more complex coordination of the arms and legs. Intensified center work includes more complex floor patterns to develop the use of space in movement sequences. Introduction to steps requiring an advanced beginning expertise in ballet. Leotards, tights and ballet shoes are required. Attendance at and written critiques of dance performances will provide deeper insight into the dance field. May be repeated for credit for a maximum of 4 credit hours.

DAA 1610L
Dance Composition I
2 Credits
This creative studio course examines basic tools of the choreographic craft. Students gain experience in structural movement from simple phrases to complex organizational units through motif development, exploration of shape, space, time, transitions and basic compositional forms. The student will explore solo, partner and group structures and use various devices to create their own artistic expressions. Reading, writing and critical analysis of dance included.
DAA 1680L  
Dance Ensemble  
1 Credit  
This creative studio course provides an opportunity for dance performers to work in a repertory company and to explore the various devices and skills of ensemble performance. Culminates in a stage performance. This course is repeatable for elective credit. Prerequisite: Audition required.

DAA 1900  
Dance Practicum  
1 Credit  
This activity/analysis course provides for the expansion of the student's range of expression and performance/production or pre-professional skills through a directed study experience. Working with a dance faculty advisor, the student will choose, refine, develop, document and present a project whose intent will be the increase of the student's mastery of selected skills from the coursework attempted to date. Prerequisite: Audition or consent of instructor.

DAA 1931-9  
Special Topics in Dance  
1 Credit  
This course is designed to allow flexibility for presenting a variety of selected topics related to dance. Topics will require both an applied and theoretical approach. Examples of topics include: labanotation, technology, dance pedagogy, etc.

DAA 2105  
Modern Dance III  
2 Credits  
This studio course is intended to further the understanding of the principles of modern dance technique through more complex exercises and exploration of movement dynamics while developing speed in movement analysis and synthesis. Intricate rhythmic structures and increased spatial awareness will challenge students. Continuing critical analysis will be expected, along with a sharpening of both the student's overall dance knowledge and aesthetic understanding of the dance form. This course may be taken twice for credit. Prerequisite: Audition or Instructor Permission

DAA 2205  
Ballet III  
2 Credits  
The continuation of ballet training at the beginning of the intermediate level. Emphasis is on strength and technical development through the skilled execution of intermediate level steps and center floor combinations. Uses the technical demands of ballet to further develop stamina and to increase expertise in spatial awareness. Attendance at and written critiques of dance performances increase the student observation and analytical skills. Prerequisite: Audition or Instructor Permission.

DAA 2206  
Ballet IV  
2 Credits  
Ballet IV is a continuation of Ballet III. Student experiences an intensification of barre work through the use of more complex coordination of the arms and legs. Intensified center work includes more complex floor patterns to develop the use of space in movement sequences. Introduction to steps requiring an advanced beginning expertise in ballet. Introduction of pointe work if student proficiency is met. Attendance at and written critiques of dance performances will provide deeper insight into the dance field. This course may be taken twice for credit. Prerequisite: Audition or Instructor Permission

DAA 2500L  
Jazz Dance  
1 Credit  
Jazz dance is a studio course designed to introduce the student to the historical development of modern jazz dance, its technique, and methods of expression through exercise, locomotion, and non-locomotion. Emphasis is placed on technique, terminology, movement combination and historical information. This course may be taken twice for elective credit.

DAA 2611  
Dance Improvisation  
2 Credits  
Dance Improvisation is a studio course that challenges students to explore movement through spontaneous problem-solving. The course will evoke the students' creative individuality and sense of ensemble. Students are guided through a series of exercises that uses sensorial and kinesthetic engagement. Essential tools of improvisation will be acquired. This course is repeatable twice for elective credit.

DAN 1600C  
Music for Dance  
2 Credits  
The study of music and its relationship to the dancer. In addition to basic rhythmic structures the student will learn to use them as a tool in teaching dance and in choreography. The student will further gain insight into the process of selecting appropriate music for various choreographic projects.
DAN 1750
Dance Conditioning
2 Credits
Conditioning for strength, tone, flexibility and posture in dance in order to enhance optimal performance. The class serves as a laboratory for movement theory, body alignment and somatic techniques. May be repeated with a change of modality (i.e., Pilates, Body Mind Centering, Yoga) up to six credits.

DAN 2100
Introduction to Dance
3 Credits
A lecture/activity course devoted to the study of dance in its many cultural and societal contexts. The course is designed to heighten student awareness of an appreciation of the aesthetic, socio cultural, and vocational roles played by dancers from the art form's historical roots to contemporary trends. Reading, writing, critical analysis and some physical activity are included. Prerequisites: College level reading and writing skills are required.

DEH 1002
Dental Hygiene Instrumentation
1 Credit
Dental Hygiene Instrumentation introduces the student to the theory and practical skills necessary for basic instrumentation. Laboratory sessions are included to demonstrate proficiency in utilizing dental hygiene instruments and dental charting. Additional topics that will be covered in lecture include professionalism and ethics, communication skills, asepsis and maintenance of hand instruments and hand pieces, patient assessment, oral prophylactic procedures, and dental charting. Co-requisites: DEH 1002L, DES 1020C

DEH 1002L
Dental Hygiene Instrumentation Laboratory
2 Credits
Dental Hygiene Instrumentation Lab introduces the student to the practical skills necessary for basic instrumentation. Laboratory sessions are included to demonstrate proficiency in utilizing dental hygiene instruments and dental charting. Additional topics that will be covered in laboratory include professionalism and ethics, communication skills, asepsis and maintenance of hand instruments and hand pieces, patient assessment, oral prophylactic procedures, and dental charting. Co-requisites: DEH 1002, DES 1020C

DEH 1130
Embryology and Histology
1 Credit
A comprehensive study of the embryonic, fetal, and postnatal development, and microanatomy of the cells and tissues that comprise the head, neck and oral cavity. Lecture topics include development and histology of the structures of the head, neck, and oral cavity; development and histology of teeth development and histology of the tooth supporting structures; and development and histology of orofacial structures.

DEH 1720
Preventive Dentistry
1 Credit
This is a one hour credit course designed to introduce the student to the practice and philosophy of preventive dentistry. The student will learn the roles of the dental hygienist, methods of dental biofilm control, formation of tooth deposits, stains, and dental caries, oral physiotherapy, inter dental care, oral health care products and the use of fluorides and sealants. Proper communication and behavior modification skills are emphasized to facilitate the role of the dental hygienist as an educator.

DEH 1800C
Clinical Dental Hygiene I
3 Credits
Clinical Dental Hygiene I is the first term for direct patient care. Students apply the principles and perform clinical activities for the prevention of oral disease, including data collection, prophylaxis, application of prevention agents, and oral home care instructions. This is a combined course with classroom interactions and clinical experience. Students are required to successfully complete a number of procedures. Prerequisites: DEH 1002, DEH 1002L, DES 1800 and DES 1800L

DEH 1802C
Clinical Dental Hygiene II
2 Credits
DEH 1802C is a continuation of DEH 1800C. It is a combined course that provides discussion of clinical activities along with clinical experience. This is the second term for direct patient care. Students apply the principles and perform clinical activities for the prevention of oral disease, including patient assessment, treatment planning, scaling, debridement, root planning, application of preventive agents, oral irrigation and antimicrobial agents, treatment of hypersensitivity, and oral home care instructions. Additional topics include oral communication skills, instrument sharpening, pulp vitality testing, special needs patients, nutritional counseling, ultra-sonics, and air polishing. Students are required to successfully complete a number of procedures. Prerequisite: DEH 1800C

DEH 1811
Dental Ethics, Jurisprudence
1 Credit
This course is designed to provide knowledge of professional ethics and legal responsibilities, professional organizations, state and dental practice acts and continuing education regulations and requirements. Dental office management will be introduced to provide dental hygiene students with the business and professional skills necessary to practice in an office and/or alternate practice setting. Emphasis will be placed on the student's ethical and legal roles as a dental hygienist and on the business aspects of the profession. In addition, preparation for the National Board examination and test taking skills will be covered. Prerequisites: DEH 2804C, DEH 2702
Co-requisite: DEH 2702L

DEH 2300
Pharmacology and Oral Medicine
3 Credits
Pharmacology, oral medicine, anesthesiaology, and dental emergencies introduces principles of basic pharmacology as they pertain to the practice of dentistry and dental hygiene. It emphasizes actions and reactions of medications commonly used in the dental office or taken by dental patients. Topics include terminology, pharmaceutical references, prescriptions and abbreviations, pharmacokinetics, drugs used in dentistry and their pharmacokinetics, drugs that may alter dental treatment and their pharmacokinetics, drugs used in dental emergencies, drug abuse, and nitrous oxide monitoring (as mandated in the Florida State Administrative Code Chapter 64B 14).
Prerequisites: DEH 1802C, DEH 2400
Co-requisites: DEH 2804C, DEH 2809

DEH 2400
General and Oral Pathology
3 Credits
General and Oral Pathology presents the principles of general pathology in relation to diseases of the teeth, soft tissue, and supporting structures of the oral cavity, as well as general pathologic conditions affecting the head and neck. Topics include terminology and diagnostic procedures, variants of normal conditions, benign conditions of unknown cause, inflammation and repair, caries and pulpal pathology, immune response, oral diseases with immunological pathogenesis, autoimmune diseases, infectious diseases, embryology of the head and neck, developmental disorders of the soft tissues and teeth, developmental cysts, neoplasia, odontogenic tumors, other tumors of oral structures, genetics, genetic syndromes and diseases of the head and neck, general pathologic conditions affecting the oral structures, TMJ disorders, and dental implants.
Prerequisites: DEH 1130, MCB 2000 and MCB 2000L
Co-requisites: DEH 1800C, DEH 2602

DEH 2602
Periodontology
2 Credits
This course provides information on the principles of periodontology pertinent to dental hygiene practice. Topics include periodontal care modifications for systemic conditions, decision making during treatment planning, helping patients change behavior, periodontal surgical concepts, periodontal maintenance, periodontal/endodontic emergencies, implantology and maintenance, and future directions of periodontal patients.
Prerequisite: DEH 2602

DEH 2702
Community Dental Health
2 Credits
This course is designed to provide knowledge of attitudes, skills, and behaviors necessary to promote dental health and prevent disease through organized community based programs. Students will be responsible for assessing, planning, implementing, and evaluating procedures in a community oral health program.
Prerequisite: DES 1830C
Co-requisites: DEH 2804C, DEH 2809

DEH 2804C
Clinical Dental Hygiene III
3 Credits
Clinical Dental Hygiene III, a continuation of DEH 1802C, is a combined course that provides discussion of clinical activities along with clinical experience. This is the third term for direct patient care. Students apply the principles and demonstrate improved patient care skills while performing clinical activities for the prevention of oral disease, including patient assessment, treatment planning, scaling, debridement, root planning, ultra-sonics, and air polishing application of preventive agents, oral irrigation and antimicrobial agents, and oral home care instructions.
Prerequisites: DEH 1802C, DES 1830C
Co-requisites: DEH 2300, DEH 2809

DEH 2806C
Clinical Dental Hygiene IV
4 Credits
Clinical Dental Hygiene IV is a continuation of DEH 2804C. This course combines advanced clinical activities with previous clinical experience. This is the fourth term for direct patient care, which emphasizes quality patient care, time constraints, and communication skills. Students will continue to perform clinical activities for the prevention of oral disease,
including patient assessment, treatment planning, scaling, debridement, root planning, ultra-sonics, and air polishing application of preventive agents, oral irrigation and antimicrobial agents, and oral home care instructions. Additional experience will include office management, legal aspects, ethics, dental hygiene practice settings, dentistry and dental hygiene regulation, and general office procedures. Students are required to successfully complete an advanced number of procedures. Prerequisites: DEH 2804C and DEH 2809

Co-requisites: DEH 1811 and DES 2502

DEH 2809
Advanced Clinical Procedures
2 Credit
Advanced Clinical Procedures is a lecture course that is a continuation of concepts and clinical procedures introduced in previous clinical courses. This course provides discussion of case-based studies and the application of specialized care treatment procedures. Students develop critical thinking skills-based on the application of theory and advanced dental hygiene procedures. Topics include dietary surveys, recall systems and applied techniques with an emphasis on patients having specialized needs and unusual case factors that may complicate routine care.
Prerequisites: DEH 1802C, DEH 2400
Co-requisites: DEH 2300, DEH 2804C

DEP 1004
Developmental Psychology of the Life Span
3 Credits
Emphasizes developmental and psycho social growth from conception to death. Topics include Piaget's stages of cognitive development, Erickson's "Eight Ages," the concept of maturity, changing personalities in later adulthood, theories of aging and death and dying.
Prerequisite: College level reading and writing skills are required.

DEP 1004H
Honors Developmental Psychology of the Life Span
3 Credits
Same as for DEP 1004 with honors content. Emphasizes developmental and psycho social growth from conception to death. Topics include Piaget's stages of cognitive development, Erickson's "Eight Ages," the concept of maturity, changing personalities in later adulthood, theories of aging and death and dying. Honors Program permission required. College level reading and writing skills are required.

DEP 2102
Child Development
3 Credits
Focuses on the development and psychosocial aspects of the child through adolescence. Topics include heredity, maturity and social determinants of child behavior. College level reading and writing skills are required.

DES 1020C
Oral, Head, and Neck Anatomy
2 Credits
Oral, Head and Neck Anatomy is a detailed study of the gross anatomy of the head and neck, and the external and internal morphology of the primary and permanent dentition. Anatomical models of the skull and teeth along with videos and workbooks allow the student to apply didactic information in the laboratory setting.
Co-requisites: DEH 1002, DEH 1002L

DES 1100
Dental Materials
2 Credits
Dental Materials focuses on the nature, qualities, composition, and manipulation used in dentistry. The primary goal of this course is to enhance the student's ability to make clinical judgments regarding the use and care of dental materials based on how these materials react in the oral environment. Lecture topics include dental material standards, dental material properties, impression materials, gypsum products, mouth guards and whitening systems, dental bases, liners and cements, temporary restorations, classifications for restorative dentistry, direct restorative materials, indirect restorative materials, polishing procedures for dental restorations, removable dental prostheses, sealants and implants. Students will have hands on laboratory experience in the proper manipulation of dental materials commonly employed in dentistry. Some of the material taught in DES 1100C provides didactic, practical, and clinical experience necessary for the dental hygiene student to perform expanded functions as required by, and outlined in Florida Statue Title XXXII, Chapter 466, Section 466.024, and in the Florida Administrative Code Chapter 64, Sections B5 16.001, B5 16.002, and B5 16.006 through B5 16.010.
Prerequisites: CHM 1032, CHM 1032L, MCB 2000, MCB 2000L
Co-requisites: DES 1100L

DES 1100L
Dental Materials Laboratory
1 Credit
This course is designed to provide basic knowledge and laboratory practice necessary for the proper manipulation of dental materials commonly employed in dentistry.
Prerequisites: CHM 1032, CHM 1032L
Co-requisites: DES 1100, DES 1830C

DES 1200
Dental Radiology
2 Credits
This course provides the student with fundamental knowledge of the nature, physics and biological effects of radiation to maximize understanding of proper control and safety precautions to be used in exposing, processing, mounting, and evaluating diagnostically acceptable radiographs.
Co-requisites: DES 1020C, DES 1200L

DES 1200L
Dental Radiology Laboratory
1 Credit
This course provides the student with laboratory experience in exposing, processing, mounting, and critiquing diagnostically acceptable intraoral and extra-oral radiographs.

Co-requisites: DES 1020C, DES 1200

**DES 1600**  
**Dental Office Emergencies**  
2 Credits  
This course is designed to teach students basic dental medical emergencies. Special emphasis will be placed on etiology, signs, treatment, prevention of medical emergencies and will provide students with an understanding of protocols, and use of equipment for emergencies in the dental environment.

**DES 1800**  
**Introduction to Clinical Procedures**  
2 Credits  
This core course introduces the dental hygiene student to the basic concepts of clinical practice. Topics include the history of dentistry, dental health team members, professional organizations, medical/dental history, vital signs, operation and maintenance of dental equipment, operator/patient, four-handed techniques, oral evacuation, dental charting, cleaning of removable appliances, coronal polishing, and fluoride application techniques.

Co-requisites: DES 1800L, DEH 1002 and DEH 1002L

**DES 1800L**  
**Introduction Clinical Procedures Lab**  
1 Credit  
This course is designed for the practical application of professionalism and clinical procedures. Development of introductory skills is practiced in the clinical setting. Demonstration of required procedures is evaluated using preset standards.

Co-requisites: DES 1800, DEH 1002, DEH 1002L

**DES 1830C**  
**Expanded Duties for Dental Hygienists**  
2 Credits  
Expanded Duties for Dental Hygienists is a combined lecture and clinical course designed to provide didactic, practical, and clinical experience necessary for the dental hygiene student to perform expanded functions as required by, and outlined in Florida Statue Title XXXII, Chapter 466, Section 466.024, and in Florida Administrative Code Chapter 64, Sections B5 16.001, B5 16.002, and B5 16.006 through B5 16.010.

Prerequisite: DEH 1800C  
Co-requisites: DES 1100, DES 1100L, DEH 1802C

**DES 2051**  
**Pain Control in Dentistry**  
2 Credits  
This course acquaints the dental hygienist with the academic and practical aspects of local anesthetics in dental patients. It provides the student with the required training and information to safely and effectively relieve pain and reduce anxiety in the dental patient. It requires that the student apply knowledge from pharmacology, biochemistry, physiology and anatomy. The student should also realize the competency and ultimate proficiency in the administration of local anesthesia requires repeated administration and self-reeducation. This course is specifically designed to obtain certification for local anesthesia in the State of Florida.

Prerequisites: DES 1020C  
Co-requisite: DES 2051L

**DES 2051L**  
**Pain Control in Dentistry Laboratory**  
1 Credit  
This course acquaints the dental hygienist with the academic and practical aspects of local anesthetics in dental patients. It provides the student with the required training and information to safely and effectively relieve pain and reduce anxiety in the dental patient. It requires that the student apply knowledge from pharmacology, biochemistry, physiology and anatomy. The student should also realize the competency and ultimate proficiency in the administration of local anesthesia requires repeated administration and self-reeducation. This course is specifically designed to obtain certification for local anesthesia in the State of Florida.

Prerequisites: DES 1020C  
Co-requisite: DES 2051

**DES 2502**  
**Office Management**  
1 Credit  
This course enables the student to gain knowledge and proficiency in all procedures necessary for office management. The course includes telephone techniques, ordering supplies, recall system, appointment control, bookkeeping, billing, and insurance procedures.

Prerequisites: DEH 2804C, DEH 2809  
Co-requisite: DEH 2702L

**DIE 2000**  
**Introduction to Dietetics**  
3 Credits  
This course provides an in-depth introductory study of dietetics, the normal nutritional principles and the application of these principles, the professional opportunities for registered dietitians (RDs), and dietetic technicians (DTRs) and the role of the American Dietetic Association in dietetics education and practice.

Prerequisite: HUN 2201

**DIE 2270**  
**Clinical Nutrition I**  
3 Credits  
This course provides an in-depth introductory study of dietetics; in depth review of nutrition science; the normal nutritional principles and the application of these principles throughout the life cycle.

Prerequisites: HUN 2201, DIE 2000

**DIE 2271**  
**Clinical Nutrition II**  
3 Credits
This course provides an advanced study of dietetics and the application of the science of nutrition to various disease states. Prerequisite: DIE 2270

**DIE 2401**
Nutritional Education and Interviewing
3 Credits
Provides information on the nutritional habits of various cultural groups, educational methods which have an impact on food purchases and interviewing techniques.
Prerequisite: DIE 2000, HUN 2201

**DIE 2419**
Nutritional Education and Counseling Practicum
2 Credits
Provides the student with a practical application of nutrition education counseling. Actual interviews and customer needs records will reinforce the theories taught and the development and planning of menus.
Prerequisite: DIE 2000, HUN 2201

**DIE 2533**
Clinical Practicum
2 Credits
This course provides a supervised practice experience in a clinical acute care setting. This course is coordinated with and taught concurrently with Clinical Nutrition II. Didactic instruction and the supervised practicum are coordinated to allow the student to apply medical nutrition therapy and develop the specific competencies of a dietetic technician in an acute care hospital clinical setting.
Prerequisite: DIE 2271

**DIE 2963**
DTR Exam Prep Capstone
1 Credit
This course is a capstone course intended for students at the completion of their Dietetic Technician program. The learner will build upon knowledge from previous courses and experience for the national Dietetic Technician, Registered (DTR) exam. Students will also prepare for entry-level by review and application of the core competencies expected of entry level DTRs. In addition, students will begin to plan for their professional careers as a DTR.
Co-requisite: DIE 2533

**DSC 1002**
Introduction to Terrorism
3 Credits
This course teaches the foundations of national security as it relates to international and domestic terrorism and the United States engagement in the war against terrorism. This course is a survey of the history and development of terrorist organizations and extreme political militancy both in the United States and the world.

**DSC 1003**
Introduction to Homeland Security
3 Credits
This course provides an introspective review of the history U.S. Homeland Defense Initiative and will explore the evolution of homeland security in the United States including an overview of the government agencies and laws involved.

**DSC 2033**  
_**Introduction to Terrorist Tactics and Weapons**_  
3 Credits  
This course introduces students to various types of weapons of mass destruction. The student will be introduced to basic principles of weapons of mass destruction, recognition, identification, decontamination, and treatment protocols. The student will understand the importance of personal protective equipment and its proper uses and understand the toxicology, physical and chemical properties associated with weapons of mass destruction.

**DSC 2242**  
_**Transportation and Border Security**_  
3 Credits  
This course provides an overview of modern border and transportation security challenges, as well as different methods employed to address these challenges. The course overs a time period from post 9-11 to the present. The course explores topics associated with border security and security for transportation infrastructure to include: seaports, ships, aircraft, airports, trains, train stations, trucks, highways, bridges, rail lines, pipelines, and buses. The course will include an exploration of technological solutions, employed to enhance security of borders and transportation systems. Students will be required to discuss the legal, economic, political, and cultural concerns and impacts associated with transportation and boarder security. The course provides students with a knowledge level understanding of the variety of challenges inherent in transportation and border security.

**DSC 2570**  
_**Introduction to Cyber-Terrorism**_  
3 Credits  
This course is designed to provide students with a general understanding of what cyber-terrorism is and the major issues associated with cyber-security. This course will cover the technological, social, and legal controls implemented by government and private entities to secure electronic communications and data networks from manipulation, theft and attack by enemies of the state, terrorists, hackers, competitors, and other adversaries. Students will learn basic computer terminology, history, policy, laws, and enforcement protocols as it related to home security.

**DSC 2590**  
_**Intelligence Analysis and Security Management**_  
3 Credits  
This course examines intelligence analysis and its indispensable relationship to the security management of terrorist attacks, man-made disasters and natural disasters. Students will discuss substantive issues regarding intelligence support of homeland security measures implemented by the United States and explore how the intelligence community operates.
DSC 2932-5
Seminar in Homeland Security and Terrorism
3 Credits
This course teaches current topics in homeland security and terrorism that are emerging and relevant. Topics include disaster response, incident command, public safety and security, terrorism, weapons of mass destruction, hazardous materials, emergency operations and security of public and private property.

EAP 0100
Speech/Listening I
3 Credits
A low beginning listening and speaking course in which students develop the ability to understand and participate in brief conversations on familiar topics and begin to develop their pronunciation. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: Required minimum score on placement test

EAP 0120
Reading I
3 Credits
A low beginning course for EAP students with emphasis on comprehension of limited written materials. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: Required minimum score on placement test

EAP 0140
Writing I
3 Credits
A low beginning writing course in which students develop the ability to write grammatically correct sentences and learn basic organizational skills for paragraph writing. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: Required minimum score on placement test

EAP 0160
Grammar I
3 Credits
Low beginning grammar course for EAP students with emphasis on basic verb tenses and simple sentence patterns. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: Required minimum score on placement test

EAP 0220
Reading II
3 Credits
A high beginning reading course for EAP students with emphasis on developing reading skills and vocabulary. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: EAP 0120.

EAP 0240
Writing II
3 Credits
A high beginning writing course in which students continue to develop writing skills in the context of guided discourse with an emphasis on logical organization and mechanics. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: EAP 0140

EAP 0260
Grammar II
3 Credits
A high beginning grammar course for EAP students with emphasis on basic grammatical structures and statement/question patterns. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: EAP 0160

EAP 0300
Speech/Listening III
3 Credits
A low intermediate listening/speaking course in which students continue to develop their ability to understand and participate in conversations and discussions, and further improve their pronunciation. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: EAP 0200

EAP 0320
Reading III
3 Credits
A low intermediate reading course for EAP students with emphasis on vocabulary expansion and application of critical reading skills. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: EAP 0220

EAP 0340
Writing III
3 Credits
A low intermediate writing course in which students continue to develop the writing skills necessary to produce organized paragraphs on a variety of academic topics. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: EAP 0240
EAP 0360
Grammar III
3 Credits
A low intermediate grammar course for EAP students with an emphasis on increasing the accuracy of grammatical structures appropriate to classroom discussion and the writing of academic paragraphs. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: EAP 0260

EAP 0400
Speech/Listening IV
3 Credits
A high intermediate listening/speaking course in which students continue to develop their ability to understand and participate in more complex classroom discussions. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: EAP 0300

EAP 0420
Reading IV
3 Credits
A high intermediate reading course for EAP students with emphasis on extensive reading and the enhancement of critical reading skills. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: EAP 0320

EAP 0440
Writing IV
3 Credits
A high intermediate writing course in which students further develop their writing skills by acquiring the ability to write more sophisticated structured academic paragraphs and essays. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: EAP 0340

EAP 0460
Grammar IV
3 Credits
A high intermediate grammar course for EAP students with emphasis on verb tenses and complex syntactic structures. Students must obtain a grade of "C" or better in order to advance to the next level of EAP coursework.
Prerequisite: EAP 0360

EAP 1500
Speech/Listening V
3 Credits
A low advanced college-level course in which students develop communication, organization, and pronunciation skills necessary for effective academic presentation and discussion with an introduction to lecture note taking.
Prerequisites: EAP 0400
Co-requisite: EAP 1500L

EAP 1520
Reading V
3 Credits
A low advanced college level reading skills course in which students will be equipped with the skills necessary for the efficient processing of general academic texts.
Prerequisite: EAP 0420
Co-requisite: EAP 1520L

EAP 1540
Writing V
3 Credits
A low advanced college-level writing course for EAP students in which students begin to write basic, structured academic essays with an emphasis on accuracy and cohesiveness. Students also learn to execute other related writing tasks.
Prerequisites: EAP 0440, EAP 0460
Co-requisite: EAP 1540L

EAP 1560
Grammar V
3 Credits
A low advanced college-level grammar course in which students will develop the ability to use complex grammatical structures appropriate to effective academic presentations, discussions and essays.
Prerequisite: EAP 0460
EAP 1620
Reading VI
3 Credits
A high advanced college-level reading skills course in which students will further develop the skills necessary for the efficient processing of general academic texts.
Prerequisites: EAP 1520, EAP 1520L
Co-requisite: EAP 1620L

EAP 1620L
Reading Lab VI
1 Credit
A high advanced college-level reading skills lab designed to further increase the active and passive vocabulary of the student.
Prerequisites: EAP 1520, EAP 1520L
Co-requisite: EAP 1620

EAP 1640
Writing VI
3 Credits
A high advanced college-level writing course for EAP students in which students develop the ability to write a variety of college level essays with sophistication, fluency, and accuracy and execute other academic writing tasks.
Prerequisites: EAP 1540, EAP 1540L
Co-requisite: EAP 1640L

EAP 1640L
Writing Lab VI
1 Credit
A high advanced college-level grammar lab for EAP students designed to comprehensively review and expand the grammatical structures necessary to write academic English.
Prerequisites: EAP 1540, EAP 1540L
Co-requisite: EAP 1640

ECO 2013
Principles of Macroeconomics
3 Credits
Introduction to the theory of national income determination with emphasis on fiscal and monetary policies. This course includes analysis of full employment, price stability and economic growth.
Prerequisites: College level reading, writing and math skills are required.

ECO 2023
Principles of Microeconomics
3 Credits
Introduction to the theory of the market system with emphasis on supply and demand. This course includes analysis of price and output decisions under different market structures.
Prerequisites: College level reading, writing and math skills are required.
EDF 1005
**Introduction to the Teaching Profession**
3 Credits
This is a survey course including historical, sociological and philosophical foundations of education, governance and finance of education, education policies, legal, moral and ethical issues and the professionalism of teaching. Students will be provided information on the Florida Educator Accomplished Practices, Florida Standards, and the Professional Educator Competencies. Students are required to complete a minimum of 15 hours of field-based experience with children and youth in schools or similar settings and not via virtual modes of film or Internet.
Prerequisites: College level reading and writing skills are required.

EDF 2085
**Introduction to Diversity for Educators**
3 Credits
Designed for the prospective educator, this course provides the opportunity to explore issues of diversity, including an understanding of the influence of exceptionalities, culture, family, gender, sexual orientation, and socioeconomic status, religion, languages of origin, ethnicity and age upon the education experience. Students will explore personal attitudes toward diversity and exceptionalities. Students will be provided information on the Florida Educator Accomplished Practices, Florida Standards, and the Professional Educator Competencies. A minimum of 15 hours of field-based experience working with diverse populations of children and youth in schools or similar settings is required. The field experience should not be via virtual modes of film or Internet. College level reading and writing skills are required.
Prerequisite: EDF 1005

EDP 2002
**Educational Psychology**
3 Credits
Focuses on the teaching/learning process, including the conditions and determinants necessary for efficiency and the application of related psychological principles. College level reading and writing skills are required.
Prerequisite: PSY 2012

EEC 1300
**Planning the Early Childhood Program**
3 Credits
Introduces planning strategies for creating significant learning experiences for children 3 to 5 years of age. Emphasis is on maturity levels, daily activities, assessment and development of personal teaching techniques.

EEC 1308
**Enhancing Intellectual Development in Early Childhood**
3 Credits
Covers the theory of specific teaching skills in languages, mathematics, social studies and problem solving.

EEC 1311
**Crafts in Early Childhood**
3 Credits
Focuses on using crafts to promote physical and mental development, with an emphasis on clay, paint, chalk and crayons.

EEC 1401
**The Family and Early Childhood Education**
3 Credits
Addresses professional responsibilities in working with parents, with an emphasis on sharing information, joint problem solving, home visits and parents meetings.

EEC 1521
**Early Childhood Center Management**
3 Credits
Covers the management and delivery of educational services, with an emphasis on planning, equipment, space, security, and educational goals.

EEC 1601
**Observing and Recording Children's Behavior**
3 Credits
This course is designed to provide the student with an overview of the importance of observation, screening and assessment in planning developmentally-appropriate programs for young children. The course covers the use of a variety of observational methods and developmentally appropriate assessment practices. Ten hours of observation in a licensed early childhood program is required.

EEC 1603
**Child Guidance**
3 Credits
This course provides child guidance and classroom management strategies to foster the psychosocial development of young children. Positive guidance is emphasized. Ten hours of observation in a licensed early childhood program is required.

EEC 1721
**Physical Development in the Early Childhood Setting**
3 Credits
Focuses on teaching techniques for helping students develop large and small motor coordination, and improve balance. Topics include maturational changes and growth patterns.

EEC 1941
**Child Care Practicum I**
3 Credits
Presents the opportunity to practice skills and translate theoretical knowledge into developmentally appropriate early childhood education experiences (240 clock hours).
Prerequisite waiver by permission of instructor required.
Prerequisite: EEC 1521
Co-requisite: EEC 1300
EEC 1943
Child Care Practicum II
3 Credits
A continuation of EEC 1941; presents the opportunity to practice skills and translate theoretical knowledge into developmentally appropriate early childhood education experiences (240 clock hours).
Prerequisites: EEC 1941.

EEC 2270
Meeting Special Needs of Children in Groups
3 Credits
Focuses on the special language and cultural needs of preschool disadvantaged students. Emphasis is on the strategies for increasing communication between children and adults, communication as part of the socialization process, and the pros and cons of English as a second language.

EEC 2271
Children with Special Needs
3 Credits
Focuses on identifying and understanding the needs of children with cultural differences, the handicapped, gifted and talented. Emphasis is on mainstreaming in the classroom setting.

EEC 2527
Legal and Financial Issues in Child Care
3 Credits
This course is designed to provide advanced-level Director credential training in early childhood management. The course focuses on financial planning, budgeting, compensation, financial resource development, marketing, record keeping, legal obligations and regulatory requirements.
Prerequisite: EEC 1521

EEC 2732
Health, Safety and Nutrition for Young Children
3 Credits
This course will provide students with knowledge of appropriate health, safety, and nutritional practices implemented in developmentally-appropriate educational programs for children ages birth through eight years. Health and safety regulations, legal issues, community resource and emergency procedures are addressed. Ten hours of observation in a licensed early childhood program is required.
Prerequisite: Current pediatric first aid and CPR certification.

EET 1036C
Basic AC and DC
3 Credits
This course is for the student who has previously taken EET 1083C, Electronic Orientation, or is taking both classes in the same semester. It covers voltage, current, resistance, and power concepts in DC and AC circuits. It also includes problems solving in AC and DC circuits using Ohm’s Law with an emphasis on constructing, measuring performance, troubleshooting, and repairing circuits. Laboratory exercises are included. College level reading, writing and math skills required. Prerequisites: MAC 1105.

EET 1037C
Circuit Analysis
3 Credits
Covers electronic filters, resonance, and RC and RL time constants concepts. Also covers AC and DC theorems used to analyze complex circuits. Laboratory activities such as constructing AC and DC circuits, verifying calculated circuit performance, and identifying and repairing circuit faults are included.
Prerequisites: EET 1036C.

EET 1083C
Electronics Orientation
3 Credits
Provides an introduction to computer operating systems, and to computer programs used in the analysis of electronic circuits. Also covers the use of electronics laboratory equipment such as digital multi meters, oscilloscopes, function generators, breadboards and trainers used in the program. Basic soldering skills included. Laboratory exercises are included.
Prerequisites: College level reading, writing and math skills required.

EET 1141C
Solid State Devices
3 Credits
Covers the basic concepts of solid state devices used in electronics with an emphasis on semiconductor materials, diodes, transistors, (bipolar and FET), thyristors, basic operational amplifiers and related test equipment. Laboratory exercises are included. Prerequisite: EET 1036C.

EET 1142C
Solid State Circuits
3 Credits
Covers the basic concepts of analog circuits. Topics include multistage amplifiers, linear integrated circuits, basic power supplies and filters, audio amplifiers, oscillators, motor controls, cathode ray tubes, optoelectronic devices and related test equipment.
Prerequisite: EET 1141C

EET 2155C
Linear Integrated Circuits
3 Credits
Covers analog integrated circuits, operational amplifiers, power supply regulator feedback, waveform generators, special amplifiers and frequency response. Laboratory exercises are included. A special fee for face-to-face sections will be charged for this course. Prerequisite: EET 1142C

EET 2326C
Communications Systems I
3 Credits
Provides an introduction to the communications field. Topics include AM, FM, television and single sideband multiplexing. Laboratory exercises are included. A special fee for face-to-face sections will be charged for this course.
Prerequisite: EET 2155C

**EET 2939**
**Electronics Engineering Technology Capstone**
3 Credits

The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project based experience. The student's project requirements will be designed in concert with his/her area of curriculum emphasis.

**EGN 2122C**
**Geometric Dimensioning and Tolerancing**
3 Credits

This course provides the fundamentals of geometric dimensioning and tolerancing (gd and t) as based on the American Society of Mechanical Engineers standard ASME Y14.5m 1994. The coverage of topics includes geometric tolerancing symbols and terms, the rules of geometric dimensioning and tolerancing, datums, material condition symbols, tolerances of form, profile, orientation and run-out, and location tolerances.

Prerequisite: ETI 1403

**EME 2040**
**Introduction to Technology for Educators**
3 Credits

Application of instructional design principles for the use of technology to enhance the quality of teaching and learning in the classroom. The course includes hands-on experience with educational media, emerging technologies, and hardware, software, and peripherals for the personal computer as well as data-driven decision-making processes. Identification of appropriate software for classroom applications, classroom procedures for integrating technologies with emphasis on legal and ethical use, and effective instructional strategies for teachers and students in regard to research, analysis, and demonstration of technology. Students will be provided an overview of the Florida Educator Accomplished Practices, Sunshine State Standards, the Professional Educator Competencies and the national Education Technology Standards. College level reading and writing skills are required.

Prerequisite: EDF 1005

**EMS 1119**
**Emergency Medical Technician**
7 Credits

Provides the lecture, theory and discussion in compliance with the National Emergency Medical Services Education Standards the Emergency Medical Technician. Also includes additional content related to esophageal intubation, intravenous fluid maintenance and automated defibrillation.

Prerequisites: ENC 0022 or ENC 0055, MAT 0018, REA 0019 or equivalent HCC placement test scores.

Co-requisites: EMS 1191L, EMS 1431

**EMS 2617C**
**Assessment Based Management and Proficiency**
2 Credits

Provides a review of the didactic and practical skills of the paramedic certificate program followed by written and practical examinations.

**EMS 2621**
**Paramedic Phase I**
7 Credits

Provides knowledge and skills contained in the 2009 National EMS Education Standards for Paramedic, Module 1: Preparatory, Module 2: Anatomy and Physiology, Module 3: Medical Terminology, Module 4: Pathophysiology, Module 5: Life Span Development, Module 6: Public Health, Module 7: Pharmacol-
ogy, Module 8: Airway Management, Respirations and Ventila-
tions, Module 9: Patient Assessment, Module 13: Special
Populations, Module 14: EMS Operations.
Co-requisite: EMS 2621L

EMS 2621L
Paramedic Phase I Practicum
4 Credits
Provides knowledge and skills contained in the 2009 National
EMS Education Standards for Paramedic, Module 1: Prepara-
tory, Module 2: Anatomy and Physiology, Module 3: Medical
Terminology, Module 4: Pathophysiology, Module 5: Life Span
Development, Module 6: Public Health, Module 7: Pharmacol-
ogy, Module 8: Airway Management, Respirations and Venti-
lations, Module 9: Patient Assessment, Module 13: Special
Populations, Module 14: EMS Operations.
Co-requisite: EMS 2621

EMS 2622
Paramedic Phase II
8 Credits
Provides knowledge and skills contained in the 2009 National
EMS Education Standards for Paramedic, Module 10: Medicine
(specifically, cardiovascular and EKG), Module 11: Shock and
Resuscitation, Module 12: Trauma.
Prerequisites: EMS 2621, EMS 2621L
Co-requisite: EMS 2622L

EMS 2622L
Paramedic Phase II Practicum
4 Credits
Provides knowledge and skills contained in the 2009 National
EMS Education Standards for Paramedic, Module 10: Medicine
(specifically, cardiovascular and EKG), Module 11: Shock and
Resuscitation, Module 12: Trauma.
Prerequisites: EMS 2621, EMS 2621L
Co-requisite: EMS 2622

EMS 2623
Paramedic Phase III
6 Credits
Provides knowledge and skills contained in the 2009 National
EMS Education Standards for Paramedic, Module 10: Medicine
(specifically, cardiovascular and Advanced Cardiac Life Sup-
port (ACLS), Module 13: Special Populations.
Prerequisites: EMS 2622, EMS 2622L
Co-requisite: EMS 2623L

EMS 2623L
Paramedic Phase III Practicum
2 Credits
Provides knowledge and skills contained in the 2009 National
EMS Education Standards for Paramedic, Module 10: Medicine
(specifically, cardiovascular and Advanced Cardiac Life Sup-
port (ACLS), Module 13: Special Populations.
Prerequisites: EMS 2622 and EMS 2622L
Co-requisites: EMS 2623

EMS 2666
Paramedic Clinical I
3 Credits
Focuses on the demonstration of EMT and basic paramedic
skills in actual patient care situations with an emphasis on ini-
tial assessment and management of airway management, intra-
venous and medication administration, and patient and stretcher
handling in field and hospital settings. Includes physically
strenuous activity. Laboratory fee assessment is made for
professional liability insurance. A special fee for face-to-face
sections will be charged for this course. Prerequisite: Admission
to Paramedic program.

EMS 2667
Paramedic Clinic II
3 Credits
Focuses on the demonstration of skills of the primary provider
of patient care in actual situations. Topics include advanced as-
sessment and evaluation, EKG monitoring and rhythm inter-
pretation, defibrillation and cardioversion, chest decompress-
sion, and advanced airway management. Involves physically
strenuous activity. A special fee for face-to-face sections will be
charged for this course.
Prerequisite: EMS 2666

EMS 2668
Paramedic Clinic III
3 Credits
An advanced clinical experience focusing on decision making and
direct patient care that stresses the completion of competencies
introduced in previous courses and includes a field preceptor
transition program.
Prerequisite: EMS 2667

ENC 0022
Developmental Writing
4 Credits
Designed to provide instruction in written communication
skills. Basic grammar and rhetorical skills including parts of
speech, sentence structure, mechanics, and word choice will be
introduced. Emphasis is placed on learning to express ideas in
clear, logical standard English and on paragraph and essay de-
development as well as developing argument and research skills.
This class does not satisfy general education requirements and
generates compensatory credit only.

ENC 0027
Developmental Reading and Writing
4 Credits
This developmental course offers integrated reading and writ-
ing instruction. It is designed to prepare students for success-
ful completion of college-level courses requiring intensive
reading and writing. Skills taught focus on improving literal
and critical comprehension, vocabulary, and essay writing
skills. The connection between reading and writing is rein-
forced through reading response opportunities. This course
does not satisfy general education requirements and generates
compensatory credit only.
Prerequisite: This course is for students designated “non-exempt from placement testing/appropriate placement score. Students also must have the ability to communicate orally in English and understand spoken English.
ENC 0055
Developmental Writing Module
1 Credits
Conducted in a lab setting, this is a modular course designed to allow students to focus on their individual grammar, punctuation, mechanics, and language usage needs to supplement college-credit English courses (not applicable for degree completion). A student is administered a diagnostic test to identify skills for an individualized learning plan so that he or she works on only the skills not yet mastered. Possible topics in the learning plan include basic grammar, sentence skills, mechanics, and language usage and style. While addressing specific skills utilized in ENC 1101, this course may be taken prior to, in conjunction with, or independently from that course. The course may be repeated up to eight times for successful completion of the individualized learning plan. Grading is Pass/Fail (S/N). This course will be available to non-exempt students who test within three points of the cut-off score for ENC 1101 and exempt students who are identified by their instructors in ENC 1101.

ENC 1101
English Composition I
3 Credits
Focuses on the writing process of various rhetorical strategies with consideration of the writer's situation, including purpose, limitations of time, and audience. Students must write unified, coherent, and developed essays that include strong theses as well as introduction, body, and conclusion paragraphs. Students must demonstrate effective sentence structure and observe conventions of standard English grammar and usage. Prerequisite requirements: College level reading and writing skills required.

ENC 1101H
Honors English Composition I
3 Credits
Same as ENC 1101 with honors content. Honors Program permission required. Prerequisites: College level reading and writing skills are required.

ENC 1102
English Composition II
3 Credits
A continuation of ENC 1101. Instruction is persuasive and literary based critical and evaluative skills in English composition. Documented research paper required. Prerequisites: ENC 1101 with a minimum grade of C or S.

ENC 1102H
Honors English Composition II
3 Credits
Same as ENC 1102 with honors content. Honors Program permission required. College level reading and writing skills are required. Prerequisites: ENC 1101H with a minimum grade of C or S.

ENC 2210
Technical Writing
3 Credits
Focuses on writing and designing documents in technical and professional discourse communities. Students produce a number of technical genres including correspondence, reports, a proposal, and instructions for various technical and lay audiences. Assignments are intended to create a real world situation and present a set of rhetorical considerations and restraints. Prerequisite: ENC 1101

ENC 2341
Magazine Writing and Design
3 Credits
This course is designed for writing of expository, descriptive and narrative articles on subjects of contemporary interest. Topics will include non-fiction, essay writing, fiction and poetry. Class lectures will cover the publication process from start to finish, and include hands-on work with software design programs. All work produced for the course may be submitted to the student publications. Design software will be utilized as the design and layout program for the course, and participants will receive extensive training in magazine layout, design, editing and production. Completion of ENC 1101 is preferred. Prerequisites: College level reading and writing skills are required.

ENG 2930
Special Topics in English
3 Credits
This course will meet the requirements of its objectives and will provide breadth and depth of exploration of a focused topic defined by a literary agenda. It is an advanced study that focuses on developing reading, writing, research, and analytical skills. This course is designed by each individual instructor who selects to teach it. It may be taken twice for up to six credits. Prerequisite: ENC 1101

ENL 2012
British Literature to 1800
3 Credits
Focuses on selected British writers, with an emphasis on major periods and trends, such as Anglo Saxon, Middle Ages, neoclassicism and pre-romanticism. Prerequisites: College level reading and writing skills are required.

ENL 2012H
Honors British Literature to 1800
3 Credits
Same as ENL 2012 with honors content. Honors Program permission required. Prerequisites: College level reading and writing skills are required.
ENL 2022
British Literature: 1800 to Present
3 Credits
Focuses on 19th and 20th century writers from the romantics to the present.
Prerequisites: College level reading and writing skills are required.

ENL 2022H
Honors British Literature: 1800 to Present
3 Credits
Same as ENL 2022 with honors content. Honors Program permission required.
Prerequisites: College level reading and writing skills are required.

ENT 1000
Introduction to Entrepreneurship
3 Credits
This course is designed to provide a broad overview of the process of turning an idea into a successful enterprise. This course will be useful for anyone, whether or not they have had prior business or entrepreneurial experience. The course explores the characteristics of the entrepreneurial mind and the environment in which these ventures succeed. The course provides self-assessment of the skills and commitment necessary to successfully start and operate an entrepreneurial venture. College level reading, writing, and math skills are required.

ENT 1012
Entrepreneurship Management
3 Credits
This course seeks to provide the knowledge, skills, and tools for students to successfully plan, design, and manage a new business venture. It is intended for those students considering self-employment for the first time or for those who are already committed as entrepreneurs. The processes of launching an entrepreneurial venture and learning the skills and techniques necessary for effective management, growth, and exit strategy will be covered in the course. Students will analyze the decision-making models and strategies and apply them in the management of business ventures. College level reading, writing, and math skills are required.

ENT 1031
Entrepreneurial Marketing and Sales
3 Credits
This course explores key marketing concepts, methods, and strategic issues relevant for start-up and early stage entrepreneurs. College level reading and writing skills are required.

ENT 1411
Small Business Accounting and Finance
3 Credits
This course provides an introduction to key topics in accounting and finance for those involved in new ventures. College level reading, writing, and math skills are required.

ENT 1612
Creativity, Innovation, and Human Centered Design
3 Credits
This course will lead students through major phases of the creative problem solving process and methods of human centered-design thinking. Students will learn the basic skills for creative problem solving, innovation, and user-centered design. Students will identify and evaluate problems and opportunities; they will sketch, create, develop, test, and select the best prototyping options for a new product or service. Prerequisite: College level reading, writing, and math skills are required.

EPI 0001
Classroom Management
3 Credits
This course prepares the student to set up a classroom; employ classroom management techniques; express an understanding of school safety; integrate sunshine state standards into lesson development; create lesson plans; establish and maintain cooperative relations with parents; develop and administer various forms of assessment describe the implications of FCAT and other standardized tests; and demonstrate an understanding of the ethical and legal obligations of the teaching profession.

EPI 0002
Instructional Strategies
3 Credits
This course prepares the student to identify different learning styles, recognize Bloom's Taxonomy prepare lesson plans, use various styles on presentations, employ varied teaching strategies, explain cooperative, group, contextual, and project based learning, apply behavioral management strategies, and discuss accommodations for exceptional students.

EPI 0003
Classroom Technology
3 Credits
This course prepares the student to develop computer based record keeping, to identify additional application software productivity tools prepare multimedia presentations, describe content area instructional strategies, identify Internet resources, describe WebQuests, demonstrate knowledge of webpage development and computer aided instruction integrate technology into the learning process, and describe copyright and fair use guidelines.

EPI 0004
Teaching and Learning Process
3 Credits
This course prepares the student to research professional literature to seek best practices in teaching and to hone the craft of effective instruction.
EPI 0010  
Foundations of Language and Cognition  
3 Credits  
This course prepares the student to describe language structure and function, cognition of phonemic awareness, phonics, fluency, vocabulary and comprehension. The student will learn the integration of the reading components. Instruction is grounded in scientifically based research as a mechanism to inform instructional practice.

EPI 0020  
Professional Foundations  
2 Credits  
This course provides the foundation for the student to become a productive member of the teaching profession. Students will gain an understanding of the organization and administration of the public school, the laws governing teachers, the code of ethics, and the purpose of schools. Students will attain a professional perspective as well as a sense of grounding in the profession of teaching.

EPI 0030  
Diversity  
2 Credits  
This course provides the student with an understanding of the variety of backgrounds and cultures that may be found in a typical classroom.

EPI 0940  
Field Experience – Module 3  
1 Credit  
Participants will complete a field experience in a public, charter, or private school. These field experiences will provide the opportunity to gain insight into the instructional process. Those participants who are teaching will be required to complete the field experiences in the schools where they are assigned.

EPI 0945  
Field Experience – Module 4  
1 Credit  
This course provides the student with a field experience in the classroom to give a broader view of the social aspects of diversity and cause the participant to re-evaluate personal beliefs and prejudices that may adversely affect the learning process.

ESC 1000  
Earth Science  
3 Credits  
Focuses on geology, meteorology, and astronomy. Topics include the earth's atmosphere and weather systems, earthquakes, volcanoes, plate tectonics, the solar system and the universe; intended for non-science majors.  
Prerequisites: College level reading, writing and math skills are required.  
Co-requisite: ESC 1000L

ESC 1000H  
Honors Earth Science  
3 Credits  
Same as ESC 1000 with honors content. Honors Program permission required.  
Prerequisites: College level reading, writing and math skills are required.  
Co-requisite: ESC 1000L

ESC 1000L  
Earth Science Laboratory  
1 Credit  
The focus of this course is to familiarize the student with science laboratory techniques and procedures including collecting and recording data, performing calculations, analyzing data, and interpreting results. This is accomplished through experiments and exercises related to topics in earth science. A special fee for face-to-face sections will be charged for this course.  
Prerequisites: College level reading, writing and math skills are required.  
Co-requisite: ESC 1000.

ETD 1320C  
Computer-Aided Drafting for Engineering  
3 Credits  
This course uses the major features of computer-aided design software (AutoCAD) to make graphic displays, including basic geometric figures, orthographic views of three dimensional objects, production of mechanical drawings, and pictorial drawings of various three-dimensional applications. Major topics include drawing, file handling, text and text editing, dimensioning and plotting.

ETD 1340C  
Intermediate CAD  
3 Credits  
Provides experienced CAD students the opportunity to approach detailed and intricate drafting and design problems from computer perspective. Provides hands-on experience in creating custom menus, slides, text fonts, attributes, extractions, 3-D drawings, and rotations.  
Prerequisite: College level reading, writing and math skills required. ETD 1320C

ETD 2364C  
Introduction to 3D Computer-Aided Design  
3 Credits  
This course is an introduction to new designing techniques and capabilities of solid modeling using 3D computer aided design software. Topics include the integration of advanced parametric solid modeling drawing tools.  
Prerequisites: College level reading, writing and math skills are required.
ETI 1110
Introduction to Quality
3 Credits
A survey course addressing quality management, quality systems, quality assurance, quality control and total quality management topics. The student will become familiar with ISO 9000, Pareto charts, and other quality techniques and tools.

ETI 1420
Manufacturing Processes and Materials
3 Credits
This course is an introduction to modern manufacturing materials, processes and systems, which are the basic building blocks of manufacturing and are best taught together. The student will learn to identify and distinguish appropriate materials processing selections given general performance needs and production rates. Material physical and mechanical properties are covered, along with equipment and processing methods used in manufacturing.

ETI 1644
Production and Inventory Control
3 Credits
A survey course in production planning and inventory control, including the topics of scheduling, MRP and capacity planning.

ETI 1622
Concepts of Lean and Six Sigma
3 Credits
This course provides a comprehensive overview of the Lean and Six Sigma methodologies including: define, measure, analyze, improve and control (DMAIC) process improvement paradigm, techniques, tools and metrics that are critical for process improvement success. This course will include demonstration and use of Lean and Six Sigma tools.

ETI 1802
Introduction to Process Technology
3 Credits
This course covers an introduction to chemical plant operations. Topics include process technician duties, responsibilities and expectations, plant organizations, plant process and utility systems, and the physical and mental requirements of the process technician. Prerequisites: College level reading, writing, and math skills required.

ETI 1810C
Introduction to Electricity and Electronics
3 Credits
This course covers basic safety practices for electrical systems and knowledge of voltage, current and power in AC and DC circuits, circuit analysis of series and parallel loads, and basic understanding of resistors, capacitors, inductors, and transformers. This basic knowledge of industrial electricity would be expected of an entry level electrician working in facilities maintenance or assisting in the assembly, test, startup, troubleshooting, maintenance, repair or upgrade of electrical and electronic equipment. Prerequisites: College level reading, writing, and math skills are required.

ETI 1943
Motors and Controls
3 Credits
This course explores the theory and application of AC and DC motors. It covers how different types of motors operate and how electronic motor control systems are designed and can be used to improve efficiency in a wide range of applications.

ETI 1931
Special Topics in Modern Manufacturing
3 Credits
This course is designed to allow flexibility for presenting a variety of topics related to high performance manufacturing principles and applications.

ETI 1949
Manufacturing Internship
2 Credits
This course is a structured and supervised internship for students in the Manufacturing Technology program of study. On the job experience will be integrated with regular biweekly class meetings to review and compare experiences with respect to workplace skills and technical expectations.

ETI 2950
Engineering Technology Capstone
3 Credits
The capstone course is designed for the student to demonstrate knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project based experience. The student's project requirements will be designed in concert with the area of curriculum emphasis.

ETI 2941
Industrial Management Practicum
3 Credits
This course is a structured and supervised internship for students. On-the-job experience will be integrated with weekly class meetings to review and compare work experiences with respect to workplace skills and technical expectations.
ETM 1010C
Mechanical Measurement and Instrumentation
3 Credits
This course provides a basic foundation for mechanical measurement techniques used in manufacturing environments. The course will integrate the concepts, principles and techniques of mechanical measurement with the use of various types of instruments, including micrometers, calipers, height gauges and other types of measuring equipment.

ETM 2315
Hydraulic and Pneumatic Systems
3 Credits
Introduces the students to the basic hydraulic and pneumatic systems and devices commonly found in advanced manufacturing facilities. The underlying scientific principles will be covered and their practical applications. Completion of PHY 1025 is strongly recommended. Taking ETM 2315L concurrently is strongly recommended.

ETM 2315L
Hydraulic and Pneumatic Laboratory
1 Credit
Provides hands-on experiences to reinforce the basic principles of hydraulic and pneumatic systems and the operation of pumps and flow monitoring devices for simple but fundamental systems. Completion of PHY 1025 is strongly recommended. Taking ETM 2315 concurrently is strongly recommended.

ETS 1520
Process Measurement Fundamentals
3 Credits
Provides the students with a basic knowledge of instrumentation and how sensors are used in the manufacturing field. Topics included are principles of temperature, pressure, flow and level, and the relationship of devices used to measure these for control.
Prerequisites: College level reading, writing and math skills are required.

ETS 1535
Automated Process Control
3 Credits
Introduces modern control theory and the use of sensors, actuators and controllers. The student will be introduced to state-of-the-art control systems used in industry and the elements that comprise a closed loop network.

ETS 1539
Instrumentation Systems Safety
3 Credits
This course focuses on the engineering requirements for the specification, design, analysis, and justification of safety instrumented systems for the process industries. Students use practical examples to determine safety integrity levels and evaluate whether proposed or existing systems meet the performance requirements. College level reading, writing, and math skills are required.
Prerequisites: ETS 1520 or instructor approval.

ETS 1540
Industrial Applications Using Programmable Logic Controllers and Robotics
3 Credits
Provides basic operational concepts common for the control of multi station industrial robotic systems. Topics include the role of programmable controllers, interface of analog and digital components in robotic systems and writing ladder diagram programs.

ETS 1542
Introduction to Programmable Logic Controllers
3 Credits
Provides basic operational concepts common to programmable controllers, focusing on PLC principles, programming and the fundamentals needed for simple process control.

ETS 1603C
Fundamentals of Robotics and Simulation
3 Credits
An introductory course designed to familiarize students with the basic principles of robotics and simulation. This course includes basic robotics concepts, operation, classification and applications. The course provides a framework for the discussion of artificial intelligence. This course also includes basic principles of modeling and simulation as applied in different environments and systems. Students will become familiar with simulation and robotic systems.
Prerequisites: College level reading, writing and math skills required. CET 1123C and EET 1141C

ETS 2210C
Introduction to Photonics
3 Credits
This is an introductory course exploring the fundamentals of photonics theory, concepts, and applications. Contents include the nature and properties of light, light sources, human vision, lasers, and laser safety; basics of geometric and physical optics, and basic principles and applications of fiber optics. Laboratory experimentation will complement the theoretical concepts of the course.
Prerequisites: College level reading, writing, and math skills required.

ETS 2230C
Introduction to Lasers
3 Credits
This course introduces students to the basic principles of laser operations, safety, and applications. Topics include elements and operation of a laser, laser safety, emission and absorption of light, lasing action, optical cavities and modes of oscillation, temporal and spatial characteristics of lasers, and laser classifications and characteristics. Laboratory experimentation will complement and reinforce the theoretical concepts of lecture material.
Prerequisites: College level reading, writing, and math skills required. EET 1036C and ETS 2210C
ETS 2527
Electromechanical Components and Mechanisms
3 Credits
This course covers gears and gearboxs, belts and pulleys, chains and sprockets, alignments and measures found in the industrial environment. College level reading, writing, and math skills are required.

ETS 2604
Robotics Application
3 Credits
This course is designed to introduce students to the basic principles of robots, including classification, operation, maintenance, troubleshooting and applications in the robotics industry. Students use hands-on practices to become familiar with sections of a robotic system. College level reading, writing, and math skills are required.

EUH 2000
Western World: Origins to Early Modern Europe
3 Credits
Presents a study of cultural, economic and political developments of Western civilization from prehistoric times through the Reformation and the European Renaissance, with an emphasis on geographic references.
Prerequisites: College level reading and writing skills required.

EUH 2000H
Honors Western World: Origins to Early Modern Europe
3 Credits
Same as EUH 2000 with honors content. Honors Program permission required.
Prerequisites: College level reading and writing skills required.

EUH 2001
Western World: Modern Europe
3 Credits
Presents a study of the economic, social and political development of the world from 1648 to the present, with an emphasis on geographic references.
Prerequisites: College level reading and writing skills required.

EUH 2001H
Honors Western World: Modern Europe
3 Credits
Same as EUH 2001 with honors content. Honors Program permission required.
Prerequisites: College level reading and writing skills required.

EVR 1001C
Introduction to Environmental Science
3 Credits
Intended for non-science majors. Focuses on the general scientific principles of biology, ecology, earth science, and physical science in describing the environment, and how human activities affect the environment. Field trips are possible. A special fee for face-to-face sections will be charged for this course.
Prerequisites: College level reading, writing and math skills are required.

EVR 1001H
Honors Introduction to Environmental Science
3 Credits
Same as EVR 1001C with honors content. Honors Program permission required.
Prerequisites: College level reading, writing, and math skills are required.

EVR 1041
Natural Resource Management with Applications in Geographic Information Systems (GIS)
4 Credits
An introduction to the appropriate use and potential applications of geographic information systems (GIS) in natural resource management with emphasis on forest management and operations planning. Students will be presented with lectures and exercises that cover a wide range of GIS and GIS related topics and issues.

EVR 1328
Natural Resource Conservation and Ecology
3 Credits
An introduction to the ecology and conservation of natural resources of native lands, concentrating on Florida ecosystems. Emphasis will be given toward interactive networks and ecosystems on which species depend, techniques for insuring biological diversity and human conservation interactions. Topics include: ecosystems, diversity, threats to habitat, the value of natural resources, conservation practices and conservation and human society.
Prerequisite: College level reading and math skills required, and BSC 1005, BSC 1005L, EVS 1001

EVR 2040
Advanced Geographic Information Systems (GIS) with Environmental Applications
4 Credits
This course provides advanced instruction using GIS software. Special emphasis will be given to environmental applications. Designed for students who have taken GEO 2150 or who have had previous experience with GIS software.
Prerequisite: GIS 2040

EVR 2858
Environmental Law
4 Credits
This course will introduce the basic legal concepts and statutory principles of environmental law with a focus on pollution control. It will also provide an opportunity for applying these concepts and principles through a service project.

EVS 1001
Introduction to Environmental Sustainability
3 Credits
Provides the student with an overview of current environmental concerns and their management. Emphasis is on the application of biological, physical and chemical methods to the
understanding of and solutions to environmental problems. The student will gain insight into the natural interactions among living things and physical aspects of the environment. Prerequisites: College level reading and math skills required.

**EVS 1026**  
**Chemistry and Biology of Natural Waters**  
4 Credits  
Provides an introduction to the chemistry of water treatment systems of natural water. Emphasizes the unit operations and analysis of water treatment. Attention is also given on assessing local bodies of water with regard to water quality and appropriate assessment techniques.  
Prerequisite: CHM 1025

**EVS 1042**  
**Water Resources with Applications in Geographic Information Systems (GIS)**  
4 Credits  
This course is an introduction to water resources with applications in geographic information systems software. Prior GIS experience is not required, but familiarity with Windows is. In this course students will learn the basics of water resource science and management as well as the basics of GIS software. Topics to be studied include the basics of: GIS software; hydrologic science; and global, regional, and local water resource management issues. Special emphasis will be placed on the water resources of Florida.

**EVS 1893**  
**Comparative and Sampling Analysis Methods**  
3 Credits  
Provides an overview of sampling and analysis techniques which are commonly used in the environmental and materials testing fields. The course deals with the skills and knowledge necessary to understand sampling and analysis concepts and to conduct basic sampling procedures.

**EVS 2005C**  
**Treatment of Water and Wastewater**  
4 Credits  
Examines the chemical, physical and biological treatment of water and wastewater. Emphasizes unit operations analysis of water treatment systems, and field evaluation of their operation.  
Prerequisites: CHM 1025, CHM 1025L

**EVS 2891**  
**Hydrology and Quality Water Resources**  
4 Credits  
A comprehensive survey of water resources considering both quantity and quality. Emphasis is on the standard techniques of sampling and monitoring especially for ground water. The hydraulic characteristics of water are also discussed. Analytical procedures used in field investigations and modeling studies are covered. A separate laboratory time is provided for on campus and field activities.

**EVS 2893C**  
**Soil Sampling and Analysis**  
5 Credits  
This course investigates the physical and chemical properties of soils and the dynamics that lead to soil formation. Standard procedures and methods will be examined and applied toward the collection and analysis of samples. The characteristics of soil types will be compared to land use, plant communities, and assessed in the field. In addition, hydric soils and general techniques of wetland delineation will be introduced and applied in the field. Lab and field work are a significant component of this class.  
Prerequisite: College level reading and writing.

**EVS 2894C**  
**Water Sampling and Analysis I**  
5 Credits  
This course introduces major water quality parameters and inorganic chemicals found in water bodies. Standard procedures and methods will be examined and applied toward the collection and analysis of samples. Techniques for using sampling equipment and meters will be taught and applied in the lab and field, including proper calibration. Field and lab activities are a significant part of this class and will emphasize preparation and organization.  
Prerequisite: College level reading and writing.

**EVS 2895C**  
**Water Sampling and Analysis II**  
5 Credits  
This class explores the implications of pollution on the ecology of aquatic systems. Concepts including trophic states, organic loading and biological contamination will be explored. General concepts of biological assessments and indexes will be introduced to define the implications of land use and pollution on organisms. Standards procedures and methods will be examined and applied toward the collection and analysis of samples. Emphasis will be on field exercises, data analysis, and quality control.  
Prerequisite: EVS 2894C, College level reading and writing.

**EVS 2942L**  
**Environmental Technology Practicum**  
3 Credits  
Focuses on hands-on experience in environmental sampling and analysis methods by assigning students to agencies or businesses for 150 hours per semester. Emphasis will be to gain
practical experience in protocols, methods and use of equipment in an applied setting; includes the possibility of outdoor work and mildly strenuous skills such as carrying and lifting. Prerequisite: EVS 2893C
FAS 1012C  
Aquacultural Organisms  
3 Credits  
The field of aquaculture uses a variety of organisms to culture from fresh water fish, to marine fish, plants, shrimp, lobster, and many others. In this course, the students will learn about the variety of organisms that can be cultured and the methods learned to do so.  
Prerequisites: College level reading and writing skills are required.

FAS 1401L  
Aquacultural Laboratory Techniques  
3 Credits  
The field of aquaculture uses a number of laboratory techniques to assist the technician in the treatment of fish, identification of fish, breeding techniques, raising of fish, feeding, and a whole host of controls on the artificial environment of the aquarium. This laboratory teaches the techniques used in the field. A special fee for face-to-face sections will be charged for this course.  
Prerequisites: College level reading and writing skills are required.

FAS 1404C  
Aquacultural Field Techniques  
3 Credits  
Focuses on the practical aspects of establishing a fish farm, setting up the ponds, maintaining environmental conditions, and harvesting the fish. College level reading and writing skills are required. A special fee for face-to-face sections will be charged for this course.  
Prerequisites: College level reading and writing skills are required.

FAS 2240C  
Aquacultural Nutritional Techniques  
3 Credits  
Focuses on the nutritional aspects of fish. Fish digestive anatomy, nutrition requirements, metabolic rates, diets, and available food sources will be covered.  
Prerequisites: College level reading and writing skills are required.

FAS 2253L  
Aquacultural Disease Process Laboratory  
1 Credit  
Designed to teach laboratory techniques to identify disease causing organisms and to use some of the treatment methodologies. A special fee for face-to-face sections will be charged for this course.  
Prerequisites: College level reading and writing skills are required.  
Co-requisite: FAS 2253

FAS 2263C  
Aquacultural Reproductive Techniques  
3 Credits  
Focuses on the principles of reproductive biology for the aquaculture industry. The primary emphasis will be on freshwater fish reproduction, however, other aquaculture organisms will be discussed.  
Prerequisites: College level reading and writing skills are required.

FAS 2353C  
Aquacultural Management Practices  
3 Credits  
Aquaculture operations are businesses. This course teaches the basic operations of the business side, showing profit and loss statements, marketing, how to manage people, and the general principles of how to manage an aquaculture establishment. In addition, decision making tools for the manager will be presented that include the use of computers and records management. Prerequisites: College level reading and writing skills required.

FAS 2941L  
Aquaculture Field Experience I  
3 Credits  
Focuses on the hands-on experience that can be gained from being in the field at aquaculture facilities in Hillsborough County. Students rotate through a variety of aquaculture operations to gain a broad spectrum of experiences that can only be gained from actual field work. This is the first of the four field experience courses.  
Prerequisites: College level reading and writing skills required.

FAS 2942L  
Aquaculture Field Experience II  
3 Credits  
Focuses on the hands-on experience that can be gained from being in the field at aquaculture facilities in Hillsborough County. Students rotate through a variety of aquaculture operations to gain a broad spectrum of experiences that can only be gained from actual field work. This is the second of the four field experience courses.  
Prerequisite: FAS 2941L

FAS 2943L  
Aquaculture Field Experience III  
3 Credits
Focuses on the hands-on experience that can be gained from being in the field at aquaculture facilities in Hillsborough County. Students rotate through a variety of aquaculture operations to gain a broad spectrum of experiences that can only be gained from actual field work. This is the third of the four field experience courses. Prerequisite: FAS 2942L

**FFP 1000**  
**Introduction to Fire Science**  
3 Credits  
Provides an overview of the fire protection field, with an emphasis on fire protection agencies, equipment, building design and construction and fire-fighting tactics. Topics include fire suppression and equipment, characteristics and behavior of fire, fire hazard properties of ordinary materials, extinguishing agents and public relations.

**FFP 1304**  
**Aerial Operators Course**  
3 Credits  
Covers driving laws and techniques, construction and operation of ladder trucks, aerial platforms and apparatus maintenance.

**FFP 1506**  
**Fire Prevention and Investigation**  
3 Credits  
Deals with the principles of prevention and investigation, a study of the fire hazards of various occupancies, a review of fire prevention codes, OSHA requirements, surveying and mapping procedures. Topics include recognition of hazards, engineering and enforcement of solutions, public relations and presentation of arson evidence.

**FFP 1710**  
**Company Officer**  
3 Credits  
Designed to assist officers in solving problems and situations encountered in today's changing fire service. The curriculum includes a review of fire department organization and administration, management theory, leadership, communication, motivation and group dynamics.

**FFP 1810**  
**Fire Fighting Tactics and Strategy I**  
3 Credits  
Involves a review of fire chemistry, equipment, manpower, strategies, methods of attack and pre planning fire problems.

**FFP 2120**  
**Fire Service Building Construction**  
3 Credits  
Building construction topics include identifying hazards from assault by fire and gravity, how building construction can influence fire spread, fire confinement or structural collapse, and many other life safety issues.

**FFP 2303**  
**Fire Service Hydraulics**  
3 Credits  
This course will cover the principles of fire service hydraulic formulas and calculations to determine pump pressures.

**FFP 2305**  
**Apparatus Operations**  
3 Credits  
This course covers emergency vehicle driving fire ground pump operations including the use of master stream devices, pump construction and pump operational applications. Prerequisite: FFP 2303

**FFP 2401**  
**Hazardous Materials I**  
3 Credits  
On site operational practices for hazardous materials in compliance with CFR 1910.120 standards.

**FFP 2402**  
**Hazardous Materials II**  
3 Credits  
On site operational practices for hazardous materials in compliance with CFR 1910.120 standards.

**FFP 2490C**  
**Chemistry of Hazardous Materials**  
3 Credits  
This course focuses on the chemistry knowledge required to evaluate the potential hazards and behaviors of materials considered hazardous. It examines the reasons for the chemical behavior of hazardous materials and is designed to improve decision making, safety operations, and handling. The course will meet the requirements set forth by OSHA 1910.120 and 40 CFR 1910.120.

**FFP 2510**  
**Codes and Standards**  
3 Credits  
This course is designed to familiarize inspectors with the basic units of NFPA 101. This course includes statewide fire prevention code NFPA 1.

**FFP 2521**  
**Construction Documents and Plan Review**  
3 Credits  
This curriculum is designed to have the student assimilate information contained in working drawings and specifications as they relate to the fire inspector. Topics include the interpretation of conventional graphic communication, symbols, abbreviations, principles of technical projection as well as a review of construction arithmetic and geometry.

**FFP 2540**  
**Private Fire Protection Systems**  
3 Credits
The study of private fire protection and detection systems, such as sprinkler and standpipe systems, chemical extinguishing systems, detection systems and devices. Each system is discussed as to its construction, preventive maintenance and individual uses.

**FFP 2604**  
**Cause and Origin**  
3 Credits  
This course is designed to enhance the fire investigators ability to detect and determine the origin and cause of a fire. Specific topics include fire behavior review, investigation ethics, construction, ignition sources, reading fire patterns and scene reconstruction. Special topics on electrical fire investigation, woodland fires, vehicle fires, mobile home fires, RV and boat fires and scene documentation.

**FFP 2740**  
**Fire Service Course Delivery**  
3 Credits  
Draws from many recognized authorities in exploring the methods and mechanics of imparting information, with an emphasis on techniques and multi-media materials for communication of ideas and strengthening the retention of skills obtained in the learning process.

**FFP 2741**  
**Fire Service Course Development**  
3 Credits  
Emphasis on instructional design, course development and training manuals. Students develop their own course by establishing goals, objectives and evaluation criteria. Students may repeat this course up to 20 times for renewal of their Fire Certification.

**FFP 2811**  
**Fire Fighting Tactics and Strategy II**  
3 Credits  
Covers advanced fire-fighting techniques, with an emphasis on incident command systems.

**FIL 1000**  
**Introduction to Motion Media: Film, Cinema and the Environment**  
3 Credits  
This course will provide an introduction to the basic terminology, techniques, and contributions of filmmaking and will explore major issues in the history of the moving image, from its invention at the end of the 19th century to the present day. Prerequisites: College level reading and writing skills are required.

**FIL 1420C**  
**Motion Media I – Recording and Interpreting Reality**  
3 Credits  
Provides a basic understanding of motion media production technology, equipment operation, terminology, and techniques. This will include an introduction to the camera, and to "mis en scene" for documentaries. Students apply the essentials of creative filmmaking in both studio and location settings. Prerequisites: CGS 1000, FIL 1000

**FIL 2010**  
**Films of Fantasy and the Imagination**  
3 Credits  
This course focuses on the art of the created motion picture image, which springs from the imagination with the help of tools such as animation, optical printing and digital construction and manipulation. This approach contrasts with the more traditional production of moving images, which focuses on and photographs aspects of real and existing objects, whether these are actors and sets or the world of nature. This course concerns films which spring from the imagination, literally from the mental pastures of human dreams, from the subconscious rather than the conscious mind. Prerequisites: College level reading and writing skills required.

**FIL 2905**  
**Directed Independent Study: Film**  
3 Credits  
This course is designed to establish a framework for further self-learning in various areas of motion media for the advanced student. The student will shape the course to fit their needs by planning activities and preparing a contract coordinated with a member of the motion media faculty. The contract will outline a specific project, or a particular set of goals and requirements that the student wishes to achieve. The contract must be satisfactorily completed and reviewed by the assigned faculty member. Prerequisite: FIL 1000

**FIL 2931**  
**Careers in Film and Video**  
1 Credit  
Students are exposed to the full range of careers in film, video and broadcasting in addition to learning about resumes, internships, interviews and portfolios.

**FIN 1100**  
**Personal Finance**  
3 Credits  
Focuses on charting financial objectives, with an emphasis on budgeting, savings, credit, loans, insurance, estate planning, taxes, investments and real estate.

**FIN 2001**  
**Principles of Finance**  
3 Credits  
This course is an introduction to the fundamentals of corporate finance. It will cover corporate financial structures, monetary systems, financial instruments, financial statement analysis, interest, and the time-value of money. Prerequisites: ACG 2021. College level reading, writing and math skills required.
FIN 2051  
International Financial Management  
3 Credits  
This course explores the management of international banking, financial services, financial risk, foreign exchange, corporate financing from a global perspective, direct foreign investment decisions, and the management of on-going operations.  
Prerequisite: FIN 2001. College level reading and writing skills required.

FNR 1001  
Natural Resource Management  
3 Credits  
An introduction to the ecology and conservation of natural resources of native lands, concentrating on Florida ecosystems. Emphasis will be given toward management techniques for the conservation of interactive networks and ecosystems on which species depend. Topics include: land use, ecosystems management, conservation and restoration practices, wildlife and forest management, and prescribed fire management.  
Prerequisite: EVR 1328. College level reading and math skills required.

FOS 1201  
Sanitation and Safety Management  
2 Credits  
This course explores the scientific rationales of sanitation and safety practices which are enforced for group protection in institutions and food service facilities. Students will recognize the importance of preparing, serving, storing, and holding foods so that they are free of contamination. This course also includes a study of the micro-world, food allergies, food borne illness, safe food handling, cleaning, sanitizing, pest management, and state, local, and national regulation governing sanitary food handling practices.  
Prerequisites: College level reading, writing, and math skills are required.

FRE 1120  
Elementary French I  
4 Credits  
Covers the fundamentals of listening, reading and writing the language while developing an understanding of the French culture. Native speakers of French are encouraged to seek credit by exam test.  
Prerequisites: College level reading and writing skills are required.

FRE 1121  
Elementary French II  
4 Credits  
Enhances the skills learned in FRE 1120. Native speakers of French are encouraged to seek credit by exam test. College level reading and writing skills required.  
Prerequisite: FRE 1120 with a minimum grade of "C" or instructor's permission.

FSS 1063C  
Food Specialties I (Baking)  
3 Credits  
This course covers the fundamentals of baking as it applies to the industry. The student gains hands-on experience in practical applications, weights, measures and formula procedures. Emphasis is placed on the proper use of care of equipment, food safety and sanitation.  
Prerequisites: FOS 1201, FSS 1223C. Student must pass ServSafe Certification Exam. College level reading, writing and math skills required.

FSS 1223C  
Food Preparation for Managers  
4 Credits  
Students are introduced to various food preparation and kitchen management techniques. It specifically examines the chemical and physical changes that take place as food is processed and prepared for consumption. The knowledge in this course is acquired through theoretical lectures and hands-on service in the HCC kitchen laboratory ensuring the students’ understanding of back-of-the-house procedures and the application of food safety and sanitation principles.  
Prerequisites: College level reading, writing and math skills are required.  
Co-requisite: FOS 1201

FSS 1248C  
Food Specialties II (Garde Manger I)  
3 Credits  
The purpose of this course is to introduce basic information, procedures, and techniques identifiable to contemporary chefs, in understanding and applying garde manger terminology, and the principles of cold food preparation. The proper care and use of tools and the correct preparation, handling, and use of mousses, cold dressings, and charcuterie are explained. Traditional plate presentations and techniques will also be discussed, as well as changes and interpretations of classical preparations to contemporary cooking standards.  
Prerequisites: FOS 1201, FSS 1063C, Student must pass the ServSafe Certification Exam. College level reading, writing and math skills are required.

FSS 1500  
Food and Beverage Control  
3 Credits  
This course is designed to provide students with a solid introduction to the planning and controlling elements of a food and beverage operation. It focuses on proven control principles and practical applications essential to operating an effective control system.  
Prerequisites: College level reading, writing and math skills required.

FSS 1941  
Food Practicum I  
2 Credits
A coordinated work-study course involving class work and field experience. Objectives determined by the student and teacher-coordinator will be used to evaluate the student. Prerequisites: FOS 1201, FSS 1223C. Student must pass ServSafe Certification Examination. College level reading, writing and math skills required.
FSS 1942
Food Practicum II
2 Credits
A coordinated work-study course involving class work and field experience. Objectives determined by the student and teacher coordinator will be used to evaluate the student. Prerequisites: FOS 1201, FSS 1223C. Student must pass ServSafe Certification Examination. College level reading, writing and math skills required.

FSS 1943
Food Practicum III
2 Credits
A coordinated work-study course involving class work and field experience. Objectives determined by the student and teacher coordinator will be used to evaluate the student. Prerequisites: FOS 1201, FSS 1223C. Student must pass ServSafe Certification Examination. College level reading, writing and math skills required.

FSS 1944
Food Practicum IV
2 Credits
A coordinated work-study course involving class work and field experience. Objectives determined by the student and teacher coordinator will be used to evaluate the student. Prerequisites: FOS 1201, FSS 1223C. Student must pass ServSafe Certification Examination. College level reading, writing and math skills required.

FSS 2100
Menu Development and Marketing
3 Credits
Emphasizes the preparation of a nutritionally balanced cycle menu, portion control, use of leftovers and waste control. The course also provides students with a solid background in hospitality sales and marketing. Prerequisites: College level reading, writing and math skills required.

FSS 2120
Food Purchase and Storage
3 Credits
Focuses on volume food purchasing, with an emphasis on the legal obligations of vendors and vendees, receiving controls, and storing and dispersal. Prerequisites: College level reading, writing and math skills are required.

GEB 1949
Business Internship
3 Credits
A coordinated work-study course involving class work and field experience. Objectives determined by the student and teacher coordinator will be used to evaluate the student. This course may be repeated six times for credit.

GEB 2214
Business Communications and Technology
3 Credits
This course is designed to equip students with a comprehensive understanding of communication, its scope and importance in business. Students will learn to apply fundamental communication theory. The various types of business communication genre are developed and used including written and oral forms. Emphasis is placed on planning, preparing, drafting, analyzing, performing the different communications required in the normal course of business activities. The course provides opportunities to recognize complex issues, organize ideas and thoughts in a consistently logical format, and then to communicate these ideas in succinct and concise manner. College level reading, writing, and math skills are required. Prerequisite: ENC 1101

GEB 2350
Introduction to International Business Essentials
3 Credits
Focuses on the fundamentals of international business through an analysis of the cultural, economic, legal, and political factors that influence international operations in the global economy. Prerequisite: College level reading and writing skills required.

GEB 2370
Introduction to International Business Policy Issues
3 Credits
Examines the challenges associated with planning and implementing international policy within business enterprises whose operations span across national boundaries. Students will be able to obtain a fundamental understanding of the strategic, operational and behavioral aspects of managing across cultures. Prerequisites: GEB 1011, GEB 2350, and FIN 2051. College level reading and writing skills are required.

GER 1120
Elementary German I
4 Credits
Covers the fundamental of reading, writing, listening and speaking the language while developing an understanding of the German culture. Native speakers of German will be asked to seek credit by exam test. Prerequisites: College level reading and writing skills are required.

GER 1121
Elementary German II
4 Credits
Enhances the skills taught in GER 1120. Native speakers of German will be asked to seek credit by exam test. Prerequisites: GER 1120 with a minimum grade of "C" or instructor's permission. College reading and writing skills are required.

**GEY 1000**  
**Issues of Aging**  
3 Credits  
Explores the issues related to the aging process and the later stages of life including: retirement, psychosocial concerns and community services for the elderly.  
Prerequisites: College level reading and writing skills are required.

**GIS 1041**  
**Survey of Geographic Information Systems and Global Positioning Systems (GPS).**  
1 Credit  
Designed to acquaint students with the uses and applications of Geographic Information Systems (GIS) and Global Positioning Systems (GPS). Methods and techniques used in GIS and GPS will also be reviewed.

**GIS 2040**  
**Fundamentals of Geographic Information Systems**  
3 Credits  
Designed to acquaint students with the history, operation and applications of geographic information systems (GIS). This course will cover all aspects of geographic information systems including data collection, preprocessing, data management and data analysis as well as the application of these systems.

**GLY 2010**  
**Physical Geology**  
3 Credits  
Covers basic geology concepts and principles. Topics include origin and structure of the earth, processes involved in shaping the earth's crust, the nature and classification of earth materials, and the dynamic interactions of the lithosphere with the hydrosphere and atmosphere that produce characteristic landforms.  
Prerequisites: College level reading, writing and math skills are required.  
Co-requisite: GLY 2010L

**GLY 2010L**  
**Physical Geology Laboratory**  
1 Credit  
This course accompanies GLY 2010. A special fee for face-to-face sections will be charged for this course.  
Prerequisites: College level reading, writing and math skills are required.  
Co-requisites: GLY 2010

**GRA 2111C**  
**Graphic Design**  
3 Credits  
This course is an introductory class which will introduce students to the design applications relevant to graphic design. Students with little or no experience on a MAC or PC will become familiar with the operating systems and will be able to use the computer to bring their images into the computer and be able to function with proficiency in file management, input and output, design applications, and creating backups of their work.  
Prerequisite: ART 1201C, PGY 2401C  
Co-requisite: PGY 2801C

**GRA 2156C**  
**Digital Illustration**  
3 Credits  
This course will build upon the student's understanding of digital design within the larger context of visual literacy and communication by expanding upon basic digital design processes and practices, particularly the differences between working in raster and vector-based media. The course will explore visual and technical understanding of digital illustration in a vector based environment using software applications that are considered to be the industry standard.  
Prerequisites: GRA 2111C or ART 2600C

**GRA 2206C**  
**Introduction to Typography**  
3 Credits  
This course provides an introduction to the study of letterforms and typography as fundamental elements of design. It focuses on how typography can be used as a visual communications device as well as a graphic, compositional and expressive element. The course will provide a groundwork for effective typographic design upon which other design elements can be built.  
Prerequisites: ART 2600C or GRA 2111C

**HFT 1000**  
**Introduction to Hospitality Industry Management**  
3 Credits  
The purpose of this course is to provide students with a basic understanding of facilities management within the hospitality industry. Emphasis is placed on the organization, structure, and functional areas in food service and lodging operations.  
Prerequisites: College level reading, writing, and math skills are required.

**HFT 1410**  
**Front Desk Procedure**  
3 Credits  
This course presents a systematic approach to front office procedures by detailing the flow of business through a hotel from the reservation process to check-out and settlement. It also examines the various elements of effective front office procedures within the context of the overall operation. Students also utilize various accounting machines to process guest accounts through the hotel night audit.  
Prerequisites: College level reading, writing and math skills are required.
HFT 1790  
The Event Industry  
3 Credits  
This course examines the full event planning process; beginning with the anatomy of an event to establish the different layers of an event experience and the step-by-step process needed to plan, design and execute events that will meet the needs of both customers and their audiences.  
Prerequisites: College level reading and writing skills are required.

HFT 2210  
Supervisory Development  
3 Credits  
This course introduces students to the process of managing personnel in the hospitality industry. Lectures will highlight the supervisory skills, techniques, and procedures needed to become successful business leaders in today’s dynamic and diverse workplace.  
Prerequisites: College level reading, writing and math skills are required.

HFT 2600  
Hospitality Industry Law  
3 Credits  
Presents a study of the laws, codes and regulations applicable to the hospitality industry.  
Prerequisites: College level reading and writing skills are required.

HFT 2750  
Meeting, Convention and Exposition Industry  
3 Credits  
The purpose of this course is to provide students with a basic understanding of convention sales and service. It identifies the various segments of the convention market and explores the methods and techniques utilized in exceeding guest expectations.  
Prerequisites: College level reading, writing, and math skills are required.

HFT 2840  
Maitre D' and Dining Room Service  
3 Credits  
Students are introduced to various service techniques and customer interaction skills. The knowledge in this course is acquired through theoretical lectures and practical hands-on service in the HCC Gourmet Dining Room. In this way, students become knowledgeable about front-of-the-house procedures and apply the principles of food safety and team leadership skills.  
Prerequisites: College level reading, writing, and math skills are required.

HFT 2941  
Hospitality Management Internship  
3 Credits  
The student intern will experience the opportunity to apply the theory learned in the program within a hospitality setting.  
Grading is based on academic projects related to the position and site evaluations. The student must also provide authorized documentation confirming 250 hours of internship experience.  
Prerequisite: Student must complete 50 program credit hours prior to being placed in a hospitality internship. College level reading, writing, and math skills are required.

HFT 2941  
Hospitality Management Internship  
3 Credits  
The student intern will experience the opportunity to apply the theory learned in the program within a hospitality setting.  
Grading is based on academic projects related to the position and site evaluations. The student must also provide authorized documentation confirming 250 hours of internship experience.  
Prerequisite: Student must complete 50 program credit hours prior to being placed in a hospitality internship. College level reading, writing, and math skills are required.

HIM 1000  
Introduction to Health Information Management  
3 Credits  
This course provides an introduction to health information management and how it fits into the healthcare delivery system. Students will explore ethical and legal principles with regard to health informatics and information management, medical records, and privacy issues. Students will learn essential employability skills and work habits with the health information management field.  
Prerequisite: College level reading, writing, and math skills are required.

HIM 1112C  
Electronic Health Records  
2 Credit  
Covers the basics of electronic health records, both content and usage. Provides an understanding of patient record requirements, access and confidentiality. Includes analysis of the medical record, emphasizing legal ramifications, ethics, proper use and confidentiality issues.

HIM 1433  
Principles of Disease  
4 Credits  
This course addresses the etiology, pathophysiology, treatment, and complications of human diseases. A systems approach to the disease process is used, which will incorporate basic medical terminology, anatomy and physiology. Common laboratory and diagnostic tests are included.  
Prerequisite: HSC 1531

HIM 1442  
Pharmacology  
2 Credits  
Course is designed for students who will not be administering medications but require a general knowledge of classifications, common usage, and therapeutic indications of commonly prescribed medications.  
Prerequisites: HSC 1531

HIM 1453  
Anatomy and Physiology for Medical Coding  
4 Credits  
This course is designed for students with limited background in sciences pursuing careers in the allied health fields. The students will gain an understanding of how the human body operates on a daily basis from birth to death and the fascinating working systems in our bodies, intended for medical coding students. Focuses on the structure and function of the various body systems.
body systems. Includes the medical terminology and abbreviations related to each body system.
HIM 2253
CPT Coding
3 Credits
This course will explore the appropriate approach to accurate usage of physicians' current terminology (CPT) for coding in an outpatient setting. Students apply the skills acquired in ICD-10 Coding (HIM 2724). Students explore reimbursement methodologies, and issues such as ambulatory payment classifications (APC) and resource-based relative value scales (RBRVS). Patient privacy and confidentiality are discussed, as well as the proper handling of protected health information (PHI).
Prerequisites: HIM 1000, HSC 1531, OST 2854C
Corequisite: HIM 1453

HIM 2272C
Medical Billing and Insurance II
3 Credits
Emphasis on billing regulations for the State of Florida. Course content includes LMRPs, Workers' Compensation Laws, Florida Medicare and claims for automobile accident injuries.
Prerequisites: HIM 2275C

HIM 2275C
Medical Billing and Insurance I
3 Credits
Introduction to health insurance claims processing, carrier requirements, and state and federal regulations. Billing for physician's offices, hospital and ambulatory surgery services. Topics that are covered include, electronic billing, confidentiality, managed care systems, Workers' Compensation, Medicare and Medicaid. Will include hands-on laboratory component.
Prerequisites: HIM 1112C, HSC 1531, OST 2854C

HIM 2283
Advanced Coding
3 Credits
Includes the study of complex medical and surgical diagnoses and procedures in the inpatient and outpatient settings using CPT and ICD-10-CM codes to ensure accurate coding and reporting. Addresses current concepts and changes related to coding practice. Reimbursement by prospective payment systems will be reviewed. The 3M encoder will be used to provide hands-on practice.
Prerequisites: HIM 2253, HIM 2724

HIM 2724
ICD-10 Coding
4 Credits
This course focuses on the International Classification of Diseases 10th Revision, Clinical Modification (ICD-10 CM) and the International Classification of Diseases 10th Revision, Procedure Coding (ICD-10 PC) Systems. Students explore the organization, structure, conventions, and guidelines of ICD-10 in order to accurately code and sequence diagnoses. The importance of the standards of ethical coding, coding compliance, and maintenance of patient privacy is stressed.

Prerequisites: HSC 1531
Corequisite: HIM 2253

HIM 2941
Clinical Coding Practicum
3 Credits
Course is planned work-based experience that provides students with an opportunity to enhance their skills through a supervised practical experience related to their career objectives. Coding guidelines will be used and the student will address billing and reimbursement issues. Medical records will be used by the student to perform coding procedures.
Prerequisites: HIM 1000, HIM 1112C, HIM 1433, HIM 1442, HIM 1453, HIM 2275C, HIM 2724, HSC 1531, OST 2854C and permission of instructor or department head.
Corequisite: HIM 2283.

HIS 2206H
Honors Selected Topics in History
3 Credits
Same as HIS 2206 with honors content. Honors Program permission required. May be taken two times for credit.

HLP 1081
Health Analysis and Improvement
3 Credits
Examines the role, wellness and fitness, disease, nutrition, stress and physical activity, and their implications for total well-being. Includes a self-evaluation of the student's current health status through their body composition and target heart rate. The development of a personal fitness program through complimentary and integrative modalities and a wide variety of choices is designed to improve total body fitness.

HSA 2010
Issues and Trends in Public Health
3 Credits
This course will serve as an introduction to current events in the field of public health (e.g., Zika virus, marijuana legislation in Hillsborough County and how STI risks relate to geo-location dating applications). Content will vary from semester to semester in order to reflect up-to-date events within the field.
Prerequisites: College level reading and writing skills are required.

HSA 2117
Health Care Delivery
3 Credits
This course provides an introduction to health care services, offering students an overview of the US health care delivery system, health policy, funding sources, and comparison with other nations.

HSA 2322
Health Insurance
3 Credits
This course will serve as an introduction to basic health insurance, and health care financing principles and terminology. It
is designed to serve as an overview of how the insured, uninsured, and underinsured interact with the United States health care system.
Prerequisites: College level reading and writing skills are required.

HSC 1220
Introduction to the Health Sciences
1 Credit
Introduces students to health care and patient care delivery systems. Includes discussion of infectious diseases and their transmission, including HIV/AIDS and hepatitis, blood borne pathogens, legal/ethical issues regarding violence/abuse cognition and reporting. Also includes CPR certification for health care providers.
Prerequisites: MAT 0018, REA 0007 and ENC 0015 or equivalent HCC placement test scores.

HSC 2006
Orientation to Perioperative Services
3 Credits
This course is an overview of the profession including basic skills and terminology related to historical development, current profession trends, professionalism, and professional code of ethics, professional organizations, patient confidentiality, infection control, asepsis, and basic surgical patient assessment using aseptic technique, clinical laboratory tests, and vital signs.
Prerequisite: Admission to Surgical Technology Program Corequisite: HSC 2006L

HSC 2006L
Orientation to Perioperative Services Laboratory
1 Credit
This course is an overview of the profession including basic skills and terminology related to historical development, current profession trends, professionalism, and professional code of ethics, professional organizations, patient confidentiality, infection control, asepsis, and basic surgical patient assessment using aseptic technique, clinical laboratory tests, and vital signs.
Prerequisite: Admission to Surgical Technology Program Corequisite: HSC 2006

HSC 1531
Medical Terminology
3 Credits
Focuses on medical terminology, with an emphasis on anatomic names of bones and organs of the body, anatomic descriptive terms, radiographic laboratory terms and their common abbreviations and commonly used medical terms and their proper usage.

HSC 1641
Legal and Ethical Aspects in Health Care
1 Credit
An introduction to health care delivery systems, their roles and responsibilities, and the patient’s legal rights within the system. The student will also evaluate ethical issues as they relate to the health care field.

HSC 2017
Careers in Public Health
3 Credits
This course description will provide students with an overview of careers in the field of public health and actively engage them in the process of exploring occupations in public health. Students will complete self-assessments on their interests, skills, personality and work values. This information will be applied to occupation and career goals.
Prerequisites: College level reading and writing skills required.

HSC 2100
Health Education
3 Credits
Provides a survey of the principles of health with an emphasis on physical fitness, mental health, nutrition, the use of tobacco, alcohol, drugs and family living.

HSC 2130
Sex, Health, and Decision Making
3 Credits
This course explores the fundamental relationship between sexuality, decision making and health outcomes from a public health perspective. Students explore sexuality issues and learn tools that promote sexual health and healthy relationships.

HSC 2400
First Aid
3 Credits
To provide the citizen responder with the knowledge and skills necessary in an emergency to help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until professional medical help arrives. Meets American Red Cross requirements for First Aid Responding to Emergencies Certification. A special fee for face-to-face sections will be charged for this course.

HSC 2520
Microbiology for Perioperative Services
3 Credits
This course is an overview of the profession including basic skills and terminology related to medical asepsis and the role bacteria has on the operating room environment and the surgical patient. It examines the relation with the growth of pathogenic micro-organisms and methods used to destroy harmful organisms in the operation room environment. It covers profession trends, patient confidentiality, infection control, asepsis, and surgical assessment using scenario-based procedures used in the operation room.
Prerequisite: Admission to Surgical Technology Program
HSC 2561
Care for an Aging Population
3 Credits
This course will serve as an introduction to public health issues related to providing care for an aging population. This course is designed to define and describe long-term care and types of residents, long-term care services, continuum of care, different LTC facilities (SNF, AL, IL, home health, hospice, respite care, adult day care, CCRC) and advance medical directives. Prerequisites: College level reading and writing skills are required.

HSC 2660
Health Communications
3 Credits
This course will serve as an introduction to key principles used in health communications. This course will provide an overview of health communication; how it is used at the individual, group, and community levels to promote consumption of goods and products and its impact on health outcomes. Prerequisites: College level reading and writing skills are required.

HSC 2669
Prevention and Community Health
3 Credits
This course will serve as an introduction to prevention methods in public health. This course is designed to provide an overview of the three primary levels of prevention: primary, secondary, and tertiary prevention. Prerequisites: College level reading and writing skills are required.

HSC 2721
Accessing and Analyzing Health Information
3 Credits
This course will serve as an introduction to the use of evidence to draw conclusions about disease etiology, benefits and the use of evidenced based recommendations. It is designed to provide an overview of health information concepts such as health literacy and health information types. Prerequisites: College level reading and writing skills are required.

HSC 2732
Fundamentals of Clinical Research I
3 Credit
This course will provide an overview of the research process including: consent, screening, phases of clinical trials, product development and adverse events and safety.

HSC 2733
Fundamentals of Clinical Research II
3 Credit
This course will provide an overview of guidelines and regulations governing clinical trials. Prerequisite: HSC 2732

HSC 2734
Regulatory Affairs in Clinical Research
3 Credit
This course will provide an overview of Institutional Review Board functions and operations including purpose, review types and composition. In addition, ethical issues within clinical research will be introduced.

HSC 2738
Quality Assurance in Clinical Research
3 Credit
This course will provide an overview of compliance and monitoring issues in clinical research.

HSC 2739
Business of Clinical Research
3 Credit
This course will provide an overview of funding and site sponsorship related to clinical research including: public/private grants and contracts and lifecycles of clinical trials.

HSC 2810
Health Navigator Practicum
4 Credits
This course will serve as the culminating experience for students enrolled in the Health Navigator program. It is designed to prepare students for employment as patient navigators or community health workers by providing an experiential field experience that provides students with descriptions of primary duties, annual salary, and interaction with professional organizations. Prerequisites: College level reading and writing skills are required.

HSC 2819
Clinical Research Practicum
3 Credit
This course will serve as the culminating experience for students enrolled in the Clinical Research programs. It will include experience working directly at a clinical research facility.

HUM 1020
Introduction to the Humanities
3 Credits
This course is an overview of human creative expression through various humanistic disciplines. The course is intended to broaden or establish an appreciation of the arts and ideas. Topics may include music, painting, sculpture, architecture, religion, philosophy, dance, theatre, literature, and film. Emphasis may be placed on a thematic, discipline-oriented, and or chronological approach. Prerequisites: College level reading and writing skills are required.

HUM 1020H
Honors Introduction to the Humanities
3 Credits
Same as HUM 1020 with honors content. This course is an overview of human creative expression through various hu-
manistic disciplines. The course is intended to broaden or establish an appreciation of the arts and ideas. Topics may include music, painting, sculpture, architecture, religion, philosophy, dance, theatre, literature, and film. Emphasis may be placed on a thematic, discipline-oriented, and or chronological approach. Honors Program permission required. Prerequisites: College level reading and writing skills required.

**HUM 1520**  
**Music in Culture**  
3 Credits  
Links music to the visual arts and the composer's cultures, focusing on western music from the Medieval Period to the present.

**HUM 2210**  
**World Humanities: Prehistory to the Early Modern Era**  
3 Credits  
Provides an overview of the arts and ideas of major world civilizations of Europe, Asia, the Middle East, Africa and the Americas from the Prehistoric Era to the Renaissance. History is discovered through a study of art, music, literature, religion and philosophy as students learn what others valued and believed. Prerequisites: College level reading and writing skills are required.

**HUM 2210H**  
**Honors World Humanities: Pre-history to the Early Modern Era**  
3 Credits  
Same as HUM 2210 with honors content. Honors Program permission required. Prerequisites: College level reading and writing skills are required.

**HUM 2230**  
**World Humanities: Early Modern to the Contemporary**  
3 Credits  
Provides an overview of the arts and ideas of major world civilizations of Europe, Asia, the Middle East, Africa and the Americas from the Renaissance to the present day. History is discovered through a study of art, music, literature, religion and philosophy as students learn what others valued and believed. Prerequisites: College level reading and writing skills are required.

**HUM 2230H**  
**Honors World Humanities: Early Modern to the Contemporary**  
3 Credits  
Same as HUM 2230 with honors content. Honors Program permission required. Prerequisites: College level reading and writing skills are required.

**HUM 2410**  
**Asian Humanities**  
3 Credits  
A historical survey of the humanities in India, China, Japan: the visual arts, music, dance, theater, religion, and philosophy from the Prehistoric Era to modern times. Emphasis will be on the cultural values revealed in works of art and literature. Prerequisites: College level reading and writing skills are required.

**HUM 2410H**  
**Honors Asian Humanities**  
3 Credits  
Same as HUM 2410 with honors content. Honors Program permission required. Prerequisites: College level reading and writing skills are required.

**HUM 2420**  
**African Humanities**  
3 Credits  
A historical survey of African humanities: the visual arts, music, dance, literature, theater, religion, and philosophy from the prehistoric era to the present day. Emphasis will be on the cultural values revealed in works of art and artifact. Prerequisites: College level reading and writing skills are required.

**HUM 2420H**  
**Honors African Humanities**  
3 Credits  
Same as HUM 2420 with honors content. Honors Program permission required. Prerequisites: College level reading and writing skills are required.

**HUM 2461**  
**Latin American Humanities**  
3 Credits  
A historical survey of the humanities of Latin America: the visual arts, music, dance, theater, religion and philosophy from the pre-Columbian era to modern times. Emphasis will be on the cultural values revealed in works of art, artifact, and literature. Prerequisites: College level reading and writing skills are required.

**HUM 2700**  
**Travel Study**  
3 Credits  
This course offers students a study/travel program centered around trips to specified countries and cities. This course will provide lectures and discussions in the humanities area before the trip and field experiences in the humanities area during the trip. This course may be repeated twice for credit.

**HUM 2930**  
**Special Topics in Humanities**  
3 Credits
This course introduces an area of humanities studies that is not given in-depth coverage in other courses. This course provides an interdisciplinary exposure to various aspects of the humanities through readings, discussion, lecture, guided research and/or field trips. Topics vary from semester to semester. Course may be repeated up to 6 credit hours.
HUM 2930H
Honors Special Topics in Humanities
3 Credits
Same as HUM 2930 with honors content. Honors Program permission required.
Prerequisites: College level reading and writing skills are required.

HUN 2201
Fundamentals of Human Nutrition
3 Credits
Presents a fundamental understanding of basic human nutrition. Topics include carbohydrates, protein, fat, vitamins, minerals, water, nutrition throughout the lifecycle, fiber, fast foods, the food guide pyramid, and popular facts and fallacies. Includes the interpretation of current nutrition information.
Prerequisites: College level reading, writing, and math skills are required.

HUS 1001
Introduction to Human Services
3 Credits
Focuses on the history of the field of Human Services. In addition, models of service delivery, ethics, and professionalism in the practice of human service skills are investigated. College level reading and writing skills are required.

HUS 1024
Abnormal Behavior: Etiology and Treatment
3 Credits
Focuses on the basic concepts of mental health and therapeutic intervention with an emphasis on normal and abnormal behaviors. Topics include concepts of normalcy, models of abnormal designations (medical v. non-medical) and identification and classification of abnormal behavior.

HUS 1820
Human Services Practicum I
2 Credits
Provides an introduction to the principles of group interaction, with an emphasis on observation and participation in the group environment.

HUS 1320
Crisis Intervention
3 Credits
Focuses on the theoretical and practical aspects of human crises, with an emphasis on handling simulated crisis situations.
Prerequisites: College level reading and writing skills are required.

HUS 1406
Etiology and Treatment of Substance Use Disorders
3 Credits
This course is a comprehensive analysis of the causes, diagnosis, treatment, and prevention of substance abuse and dependence. Symptoms and the progression of substance use disorders are discussed. Types of abusers and different conceptualizations of the nature of substance disorders are reviewed. Strategies and skills are required for working with substance abusing clients are explored.

HUS 1540
Principles for Understanding and Working with Families
3 Credits
This course presents family theories most often used by human service workers as the framework for working with families. Three of these theories - the ecological model of human development, family systems theory and empowerment theory will be used to help students understand the complexity of family development and adaptation and the impact of stress on the family system. The student will learn how these theories can be used in the development of family professional collaboration and application of family centered practice. Students will learn and practice skills for empowering families to assess their strengths, concerns and priorities and to plan for how to meet their needs.
Prerequisite: HUS 1001

HUS 1550
Multicultural Perspective in Human Services
3 Credits
Addresses cultural diversity and its implications for counseling and human services practice. It considers the psychological impact of factors such as sex, race, ethnicity and culture, religious preference, socioeconomic status, sexual orientation, and physical disability. Common stereotypes and prejudices toward various groups and cultures are investigated. Strategies for overcoming prejudice are studied. Interventions and strategies for working effectively in a helping capacity with diverse clients are discussed.
HUS 2008  
Psychotherapy: Theory and Practice  
3 Credits  
This course surveys the field of counseling theory and practice. The major theories that guide the practice of mental health counseling are investigated, including the personality theories which are the underpinnings of many theoretical approaches. Further, this course reviews issues related to the counselor as a person and a professional and considers ethical issues in counseling practice. College level reading and writing skills are required.

HUS 2311  
Strategies of Behavior Modification  
3 Credits  
Focuses on the tenet of learning and motivation, with an introduction to behavior theory. College level reading and writing skills are required.

HUS 2821  
Counseling and Human Services Practicum II  
3 Credits  
HUS 2821 builds on the training achieved in HUS 1820. Emphasis is on developing increased skill in working therapeutically with clients and in treatment planning. The elements of ethical practice are emphasized. The course requires 200 hours over the duration of the semester and attendance at a bi-weekly, two hour practicum seminar. The seminar hours are not included in the required 200 practicum hours. A special fee for face-to-face sections will be charged for this course. 
Prerequisite: HUS 1820.

HUS 2822  
Counseling and Human Services Practicum III  
3 Credits  
HUS 2822 builds on the training achieved in HUS 1821. Emphasis is on providing effective and professional clinical services to clients and on achieving a sense of professional identity. This course requires 200 hours over the duration of the semester and attendance at a bi-weekly, 2 hour practicum seminar. The seminar hours are not included in the required 200 practicum hours. A special fee for face-to-face sections will be charged for this course. 
Prerequisite: HUS 2821.

IDH 2931H  
Honors Leadership  
3 Credits  
An honors course in leadership and career theory that emphasizes understanding of oneself as an unique individual and that will serve as the basis for developing effective leadership abilities. The major topics include personal assessment, values and expectations, motivation, decision making, and leadership and career theory. Honors Program permission required. 
Prerequisites: College level writing and reading skills are required.

IDH 2955H  
Honors Global Leadership  
3 Credits  
Students will examine international leadership through an interdisciplinary approach which combines stateside classroom activities, scholarly research, foreign travel, and service learning. Course content will explore the historical, social, economic, religious, and artistic perspectives of another culture. The course promotes communication skills and team work; students should expect rigorous travel and service work. A special fee for face-to-face sections will be charged for this course for travel expenses. Please contact your instructor for more information. 
Prerequisite: IDH 2931H

IDS 2159  
Environmental Issues in Tropical Ecosystems  
3 Credits  
Environmental Issues in Tropical Ecosystems is a three-credit hour course that provides an interdisciplinary study of issues in tropical environments. The natural ecology of a terrestrial rain forest ecosystem, a coastal mangrove swamp ecosystem, and an offshore barrier reef ecosystem will be studied. The alterations of these ecosystems by human activities will be examined. Further, the social, political and economic reasons surrounding both the exploitation and the conservation of these systems will be investigated. Sustainable resource extraction from these ecosystems will be explored and compared to the consequences of biodiversity loss, societal issues, and ecological footprinting. A significant portion of this class will occur in the water. Therefore all students must be proficient swimmers and be able to swim unassisted for at least 100 yards and tread water for 10 minutes.

IDS 2200  
Energy Issues  
3 Credits  
This course provides an interdisciplinary study of renewable energy sources. A comparison of how the United States and other nations (primarily Denmark) have dealt with the political and economic vulnerability of the dependence on fossil fuel sources since the 1980's will be made. Societal aspects of energy use, waste, production, economics and environmental impacts will be compared between other nations and current United States trends. Course participants will be expected to observe aspects of Danish culture while staying with a Danish host family for approximately two weeks. This course will include both pre-trip and post-trip components. Note: Course participants must successfully complete an application process. 
Prerequisites: College level reading, writing and math skills are required.

IDS 2891  
Connections  
1 Credit  
A selected topics capstone interdisciplinary experience course for the AA degree curriculum. Summarizes major points in the
bodies of knowledge acquired while participating in the general education experience in an applied manner. Involves research, application of theoretical models, and utilization of learned skills.

**IDS 2912L**
**Undergraduate Research Experience in Natural Science**
2 Credit
This course introduces natural science majors to interdisciplinary direct research in biological, physical, geological, ocean and/or environmental sciences and provides an opportunity for students to gain experience with the scientific process through the development of an independent or group (up to 3 students) research project under the direction of a faculty member(s). Student propose, design, conduct, analyze and present scientific research in the course. This course may be repeated once for additional credit for longer term research projects. Projects must be agreed upon with faculty member and must be interdisciplinary in nature. College level reading, writing and math skills are required.
Prerequisites: Approval of instructor and BSC 2010, BSC 2011 or OCB 2000; or PHY 2053 and PHY 2054; or two of the following: ZOO 1010C, OCE 2001C, EVR 1001C, GLY 2101.

**IHS 2110C**
**Introduction to Global Health: Focus on Selected Countries**
3 Credit
This study abroad course introduces students to global health issues with emphasis on a selected country. The course will examine various issues which influence health outcomes and compare health care delivery systems. Students will analyze personal professional development as they examine various health care disciplines. This course is offered in a hybrid format combining on-line instruction with an in-country content and clinical component. Students are required to complete on-line theoretical content before leaving for their in-country experience and again upon their return. Students will travel to supervised sites in a selected country for direct exposure to theoretical concepts as well as “hands-on” clinical experiences for application and service learning.
Prerequisites: College level reading and writing skills are required.

**ITA 1120**
**Elementary Italian I**
4 Credits
Covers the fundamentals of reading, writing, listening and speaking the Italian language while developing an understanding of the Italian culture. Native speakers of Italian are encouraged to seek credit by exam test.
Prerequisites: College level reading and writing skills are required.

**ISM 2110**
**Business Intelligence I**
3 Credit
Business Intelligence I provides the students with an introductory overview of Business Intelligence, data analytics, and data science theory. It is a course that discusses business intelligence (overview of), descriptive analytics, predictive analytics, prescriptive analytics, big data concepts, and privacy and managerial considerations in analytics. Through these topics students will be introduced to the nature of data, statistics modeling, data visualization, data mining, methods and algorithms.
Prerequisites: College level reading, writing and math skills are required.

**ISM 2111**
**Business Intelligence II**
3 Credit
Business Intelligence II provides the student with the fundamental concepts to understand modern business analytics in organizations, the use of business tools such as spreadsheet and software, how to interpret business analytics data, and how to communicate the finding from the analysis through the use of visualization, tables, and reports.
Prerequisites: College level reading, writing and math skills are required. CGS 1000, ISM 2110, COP 2050, STA 2023

**JOU 1400L**
**Journalism Laboratory**
1 Credit
Provides practical experience through work on college publications under faculty supervision. This course may be repeated six times for credit.
Prerequisites: College level reading and writing required.

**JOU 1949**
**Journalism Internship**
3 Credits
A coordinated work study course involving class work and field experience. Objectives determined by the student and the teacher coordinator will be used to evaluate the student. This course may be repeated six times for credit.
Prerequisite: ENC 1101

**JOU 2100C**
**Journalistic Writing and Reporting**
3 Credits
Introductory course providing instruction and practice in journalistic writing and news reporting. Course includes writing leads, defining news and writing news with specific emphasis on features, editorials, and specific content. Additional course emphasis is placed on the principles of identification, selection, and evaluation of news stories for print and online publication. Course also includes instruction in professional ethics.
Prerequisite: College level reading and writing skills required.

**LAH 2020**
**Survey of Latin American History**
3 Credits
To examine the major events in the history of Latin American countries from the colonial period to the present with special emphasis on social, cultural, political, and economic development.
LAH 2020H  
Honors Survey of Latin American History  
3 Credits  
This course is intended to provide an introductory examination of the colonization and evolution of Latin America from 1492 to the present. The course pays particular attention to the social, political, economic, and cultural impact of the interactions between Europe, Africa and the Americas, which shaped Latin America and the Caribbean throughout the colonial period. It will then explore the ways in which the consequences of colonialism influenced Latin American independence and national identity in the nineteenth and twentieth century. The course critically examines Latin America’s relationship to the US and world history in recent decades. Honors Program permission required. College level reading and writing skills are required.

LIN 1670  
English Grammar and Usage  
3 Credits  
Provides an intensive study of traditional grammar usage and mechanics for those students who desire to improve both their understanding and use of English. Provides an in-depth review of grammar to returning students. Complements English composition courses.

LIN 1670H  
Honors English Grammar and Usage  
3 Credits  
Same as LIN 1670 with honors content. Honors Program permission required.

LIN 1672  
Foundations in English Grammar  
3 Credits  
This 3-credit college-level course will provide a study of traditional grammar, usage, and mechanics for students desiring to improve their understanding and use of English. It will examine English from a structural level, focusing on the construction of a sentence.

LIT 2000  
Introduction to Literature  
3 Credits  
This survey course will focus on providing the student with an understanding of literature and how it relates to the human experience. Students will read literature from different authors, historical periods, and or cultural contexts. The course presents the opportunity for the student to focus on a variety of literary topics with each section focused on a specific genre/theme. College level reading and writing skills are required.

LIT 2000H  
Honors Introduction to Literature  
3 Credits  
Same as LIT 2000 with honors content. Honors Program permission required.

LIT 2110  
World Literature to 1650  
3 Credits  
Focuses on the major periods and forms in literature from Greek and Roman Classicism through the Renaissance, excluding British and American literature. Topics will include the cultural background of each period and the distinctive characteristics of each style and genre. Prerequisites: College level reading and writing skills are required.

LIT 2120  
World Literature: 1650 to Present  
3 Credits  
Focuses on literature from the Renaissance to now. Prerequisites: College level reading and writing skills are required.

LIT 2120H  
Honors World Literature: 1650 Present  
3 Credits  
Same as LIT 2120 with honors content. Honors Program permission required. Prerequisites: College level reading and writing skills are required.

MAC 1105  
College Algebra  
3 Credits  
Provides students with the opportunity to gain algebraic knowledge needed for many fields such as engineering, business, science, computer technology, and mathematics. Graphical and numerical methods support the study of functions and their corresponding equations and inequalities. Students will study linear, quadratic, polynomial, rational, exponential, logarithmic, inverse, composite, radical, and absolute value functions; systems of equations and inequalities; modeling applied problems; and curve fitting techniques. Previous credit for MAC 1106 precludes credit for MAC 1105. Prerequisite: MAT 1033 with a minimum grade of C or appropriate score on placement test.

MAC 1105H  
Honors College Algebra  
3 Credits  
Same as MAC 1105 with honors content. Honors Program permission required. Prerequisite: MAT 1033 with a minimum grade of C or appropriate score on placement test.

MAC 1106  
Combined College Algebra/Pre-Calculus  
5 Credits  
This course covers the topics of both MAC 1105 and MAC 1140 and is intended for students preparing for MAC 2311. Major topics include the study of linear, quadratic, polynomial, rational, exponential, logarithmic, inverse, composite, radical,
and absolute value functions; conic sections; systems of equations and inequalities; matrices and determinants; sequence and series; the binomial theorem; and applications such as curve fitting, modeling, optimization, and exponential growth and decay. Previous credit for MAC 1105, MAC 1140, or MAC 1147 precludes credit for MAC 1106. Prerequisite: MAT 1033 with a minimum grade of B or appropriate score on placement test.

MAC 1114
Trigonometry
3 Credits
Major topics include trigonometric functions, their properties and graphs; inverse trigonometric functions, their properties and graphs; trigonometric identities; trigonometric equations; solutions of triangles; polar coordinates; trigonometric forms of complex numbers; vectors; applications. For students taking MAC 1140 and MAC 1114 in preparation for MAC 2311, it is recommended that MAC 1140 be taken before MAC 1114. Previous credit for MAC 1147 precludes credit for MAC 1114. Prerequisite: MAC 1105 or MAC 1106 with a minimum grade of C or appropriate score on placement test.

MAC 1114H
Honors Trigonometry
3 Credits
Same as MAC 1114 with Honors content. Major topics include trigonometric functions, their properties and graphs; inverse trigonometric functions, their properties and graphs; trigonometric identities; trigonometric equations; solutions of triangles; polar coordinates; trigonometric forms of complex numbers; vectors; applications. Honors Program permission required. Prerequisite: MAC 1105 or MAC 1106 with a minimum grade of C.

MAC 1140
Pre-Calculus Algebra
3 Credits
Major topics include polynomial, rational and other algebraic functions, their properties and graphs; polynomial and rational inequalities; exponential and logarithmic functions, their properties and graphs; conic sections; systems of equations; matrices and determinants; sequences and series; binomial theorem; applications. Honors Program permission required. Prerequisite: MAC 1105 with a minimum grade of C.

MAC 1147
Pre-Calculus Algebra and Trigonometry
5 Credits
This is an accelerated course covering the topics of both MAC 1140 and MAC 1114. Students should already have some prior knowledge of trigonometry. Major topics include polynomial, rational, and other algebraic functions, their properties and graphs; polynomial and rational inequalities; exponential and logarithmic functions, their properties and graphs; trigonometric equations; solutions of triangles; polar coordinates; trigonometric forms of complex numbers; vectors; conic sections; systems of equations; matrices and determinants; sequences and series; binomial theorem; applications. Previous credit for MAC 1106, MAC 1114 or MAC 1140, precludes credit for MAC 1147. Prerequisite: MAC 1105 with a minimum grade of B or appropriate score on placement test.

MAC 2233C
Calculus for Business and Social Sciences
3 Credits
An introduction to calculus with applications to business, economic, social and behavioral sciences. Topics include the study of limits, continuity, rates of change, differentiation and integration of algebraic, exponential and logarithmic functions, and curve sketching with embedded review of algebraic preliminaries: expressions, equations, functions, and graphs including piecewise functions. Previous credit for MAC 2311 precludes credit for MAC 2233C. Prerequisite: MAC 1105, or MAC 1106, or MAC 1140, or appropriate score on placement test.

MAC 2311
Calculus and Analytic Geometry I
5 Credits
This is the first of a three-course sequence in calculus. Major topics include limits, continuity, and differentiation and integration of algebraic, trigonometric, exponential and logarithmic functions. Applications include rates of change, related rates, mean value theorem, extreme values, curve sketching, differentials, area, volume and work. Students must pass both pre-calculus algebra and trigonometry with a minimum grade of C in order to take MAC 2311. This can be accomplished through any one of the following routes: (1) MAC 1106 and MAC 1114, (2) MAC 1140 and MAC 1114, (3) MAC 2233C. Prerequisites: MAC 1106 and MAC 1114 with a minimum grade of C, or MAC 1140 and MAC 1114 with a minimum grade of C, or MAC 1147 with a minimum grade of C.

MAC 2312
Calculus and Analytic Geometry II
5 Credits
This is the second in a three-course sequence in calculus. Major topics include differentiation and integration of hyperbolic
functions, algebraic, trigonometric, and numerical integration techniques, applications of integrals, improper integrals, parametric equations, polar coordinates, conics, and sequences and series. Prerequisite: MAC 2311 with a minimum grade of C.

MAC 2313
Calculus and Analytic Geometry III
5 Credits
A continuation of MAC 2312. Focuses on arc length and surface area, vectors in two and three dimensional space, planes, lines and surfaces in three-dimensional space, functions of more than one variable, partial derivatives, double and triple integrals and their applications, cylindrical and spherical coordinates, vector fields, line integrals, Green’s theorem and Stoke’s theorem. Prerequisites: MAC 2312 with a minimum grade of C.

MAN 2021
Principles of Management
3 Credits
This course presents an overview of the management functions including planning, organizing, controlling, leading, and problem-solving in organizations; reviews foundations of management thought and managerial processes that lead to organizational effectiveness in today’s global business environment. Prerequisites: College level reading and writing skills are required.

MAN 2300
Introduction to Human Resource Management
3 Credits
This course serves as an overview of the field of Human Resources Management. Theories and practices relating to the management of human resources will be explored. The role of the human resources department will be emphasized with particular attention being focuses on supervision, training, and customer service. Topics will include hiring and termination decisions, understanding of applicable federal and state employment legislation, labor relations, employee discipline, performance appraisals, wages and benefits. Prerequisite: College level reading and writing skills are required.

MAN 2500
Operations Management
3 Credits
This course introduces you to operations management techniques including application to functional areas of the business enterprise and operations control. Topics include design and management of productions operations, including productivity, strategy, capacity planning, location, layout, resources management, Just-in-time systems, materials requirement planning, and project management. Prerequisite: College level reading, writing and math skills are required.

MAN 2604
Intercultural Relations in Business
3 Credits
Examines the influence of individual differences and ethnic and national culture on behaviors within organizations and
across national borders. Addresses the questions of how and when to be sensitive to these issues, and develops skills required to effectively manage in diverse environment. Prerequisites: College level reading and writing skills are required.

**MAN 2652 Global Management**  
3 Credits  
This course involves a comparative study of global management practices. This course also addresses the questions of how and when to be sensitive to cultural issues and to develop the skills needed to effectively manage in diverse global environments. Prerequisite: College level reading, writing and math skills are required.

**MAP 2302 Differential Equations**  
3 Credits  
Covers first order differential equations including those with separable variables, homogeneous and exact equations and equations made by an integrating factor. Topics include linear differential equations of higher order and their solutions including both homogeneous and non-homogeneous equations, differential operators, Laplace transforms, and series solutions and applications. Designed for engineering and mathematics majors. Prerequisite: MAC 2312 with a minimum grade of C.

**MAT 0018 Pre-Algebra**  
3 Credits  
Focuses on manipulative skills of whole numbers, integers, fractions, and decimals. Topics include prime factorization, square roots, and absolute values, order of operations, use of percent, formulas, measurement, geometry, and introduction to algebra. This course does not satisfy general education requirements in mathematics and is awarded compensatory credit only. Credit for MAT 0012 precludes credit for MAT 0018. Prerequisites: REA 0018 or appropriate score on placement test.

**MAT 0022 Integrated Arithmetic and Algebra**  
5 Credits  
This course combines the arithmetic and algebra skills of MAT 0018 and MAT 0028. This course includes all mathematics skills necessary for entry into college level mathematics. Arithmetic topics include operations with real numbers, fractions, decimals, exponents, geometry measurement systems, percent and ratios. Algebra topics include polynomial operation, factoring, solving and graphing linear equations and inequalities, operations with quadratic equations, and applications of all concepts. This course does not satisfy general education requirements and generates compensatory credit only. Permission from instructor required.

**MAT 0028 Beginning Algebra**  
3 Credits  
Provides an introduction to algebra. Topics include basic linear equations and inequalities, properties of real numbers, operations, involving exponents and polynomials, factoring, quadratic equations, applications, graphing of linear equations, and an introduction to radical simplification. This course does not
satisfy general education requirements in mathematics and is awarded compensatory credit only. Credit for MAT 0024 precludes credit for MAT 0028.
Prerequisite: MAT 0018 and REA 0018 or appropriate score on placement test.

**MAT 0029**
**Developmental Mathematics for Statistics and Liberal Arts**
3 Credits
This course provides instruction in developmental mathematical concepts that serve as a foundation for liberal arts and statistics. These mathematics concepts are presented in a context that is relevant and meaningful. This course emphasizes both written and verbal communication of mathematical concepts, and helps prepare the student for college-level statistics and liberal arts math courses. This course is not designed for students who are required to take MAC 1105. Students who complete this course will be prepared to enter STA 2023 or MGF 1106/1107 only.

**MAT 0055**
**Developmental Mathematics Module**
1 Credits
This course combines the arithmetic and algebra skills of MAT 0018 and MAT 0028 in modular format. Students will be given a diagnostic test to identify skills in the sequence that have not been mastered. An individual learning plan will be established and students will be assigned objectives relating to the identified competencies. Specific topics for study determined by student’s diagnostic test results. This course includes all mathematics skills necessary for entry into college-level mathematics. Arithmetic topics include operations with real numbers, fractions, decimals, exponents, geometry, measurement systems, percent, and ratios. Algebra topics include polynomial operations, factoring, solving and graphing linear equations and inequalities, operations with quadratic equations, and applications of all concepts. This course does not satisfy general education requirements and generates compensatory credit only.
Prerequisites: REA 0018 or appropriate score on placement test.

**MAT 1031**
**Intermediate Algebra Module**
2 Credits
This emporium-style course covers the algebraic skills of MAT 1033, Intermediate Algebra in a modular format. Students will be given a diagnostic test to identify skills in the course outcomes that have not been mastered. An individual learning plan will be established and students will be assigned objectives relating to the identified competencies. Specific topics for study determined by student’s diagnostic test results. Topics include relations, functions, polynomial operations, factoring, rational expressions, equations (linear, quadratic, radical, rational), systems of equations, inequalities, exponents, radicals, graphs of linear equations, and inequalities in two variables, complex number and applications. Elective credit only. May be repeated up to 5 times for credit.
Prerequisites: MAT 0022, or MAT 0028, or MAT 0055 with an ‘S’ grade, or appropriate score on placement test.

**MAT 1033**
**Intermediate Algebra**
4 Credits
Topics include sets, relations, functions, polynomial operations, factoring, rational expressions, equations (linear, quadratic, radical, rational), systems of equations, inequalities, exponents, radicals, graphs of linear equations, and inequalities in two variables, complex numbers, and applications. Elective credit only.
Prerequisites: MAT 0022, or MAT 0028, or MAT 0055 with an ‘S’ grade, or appropriate score on placement test.

**MCB 1060**
**Food Microbiology**
3 Credits
This course offers detailed examination of the principles of food microbiology and their application to current food technology. Additional topics covered will be food and enzymes produced by micro-organisms, food in relation to disease, food sanitation control and inspection and the Food Additives Amendment of the Federal Food, Drug and Cosmetic Act.
Co-requisite: MCB 1060L

**MCB 1060L**
**Food Microbiology Laboratory**
1 Credit
A special fee for face-to-face sections will be charged for this course.
Co-requisite: MCB 1060

**MCB 2000**
**Microbiology and Human Disease**
3 Credits
Intended for Biology and Allied Health majors. Focuses on disease states, bacteria, viruses, fungi, rickettsiae and other pathogenic organisms. Topics will include problems of sterilization, resistance, diagnostic testing and immunization.
Prerequisites: College level reading and writing skills are required.
Co-requisite: MCB 2000L

**MCB 2000L**
**Microbiology and Human Disease Laboratory**
1 Credit
A special fee for face-to-face sections will be charged for this course.
Prerequisites: College level reading and writing skills are required.
Co-requisite: MCB 2000
MCB 2910L
Guided Undergraduate Research
1 Credit
This course is intended for biological science majors who desire to gain experience with research techniques, methods and procedures. It is intended to create supervised study through field and laboratory projects, guided readings, and achievement in specific research skills. Students will develop independence in the laboratory regarding their research project and will learn how to write a scientific abstract. May be repeated up to 3 times for credit.
Prerequisites: College level reading, writing and math skills are required.

MET 2010C
Meteorology
3 Credits
A one semester course for non-science majors that focuses on the physical properties and dynamics of the atmosphere. Topics include the origin and evolution of the atmosphere, storms and severe weather, weather forecasting and analysis, and the impact of weather and climate on humankind. A special fee for face-to-face sections will be charged for this course.
Prerequisites: College level reading, writing and math skills are required.

MGF 1106
Topics in Mathematics
3 Credits
Topics will include finite and infinite sets, logic, deductive and inductive reasoning, geometry, counting methods, probability and statistics. Studying these topics will develop a broader base of mathematical knowledge. This course may be used to satisfy part of the mathematics general education requirement for the associate in arts degree.
Prerequisite: MAT 0022, or MAT 0028, or MAT 0029, or MAT 0055 with a grade of ‘S’, or appropriate score on placement test.

MGF 1106H
Honors Topics in Mathematics
3 Credits
Same as MGF 1106 with honors content.
Prerequisite: MAT 0022, or MAT 0028, or MAT 0029, or MAT 0055 with a grade of ‘S’, or appropriate score on placement test. Honors Program permission required.

MGF 1107
Explorations in Mathematics
3 Credits
This course may be used to satisfy part of the mathematics general education requirement for the associate in arts degree. Topics will be chosen from the following: financial mathematics; sequences and series; elementary number theory; history of mathematics; linear and exponential growth; voting theory; chaos and fractals; reflections and translations in geometry; graph theory; game theory; and mathematical use of calculators and computers. These topics will be helpful in developing a broader base of mathematical knowledge.
Prerequisite: MAT 0022, or MAT 0028, or MAT 0029, or MAT 0055 with a grade of ‘S’, or appropriate score on placement test.

**MGF 1107H**  
Honors Explorations in Mathematics  
3 Credits  
Same as for MGF 1107 with honors content. Honors Program permission required.  
Prerequisite: MAT 0022, or MAT 0028, or MAT 0029, or MAT 0055 with a grade of ‘S’, or appropriate score on placement test.

**MLS 2001L**  
Laboratory Techniques I  
3 Credits  
This is a foundational course which covers clinical laboratory techniques. Students will learn how to draw blood using universal precautions and following OSHA regulations. Laboratory practicums will include macroscopic and microscopic analysis of the urine specimen, immunology and immunohematology techniques with blood specimens. Basic hematological techniques will be introduced to conduct whole blood analysis and differentials. Initial microbiological techniques will be introduced in the laboratory.  
Prerequisite: Admission to the Medical Laboratory Science program.  
Corequisite: MLS 2001L

**MLS 2002L**  
Laboratory Techniques II  
4 Credits  
This is a continuation of MLS 2001L. Students will continue to practice drawing blood using universal precautions and following OSHA regulations. Laboratory practicums will include clinical chemistry, hematology, molecular, microbiology and parasitology techniques.  
Prerequisite: MLS 2001L  
Corequisite: MLS 2001L

**MLS 2003**  
Laboratory Techniques III  
2 Credits  
This a continuation of MLS 2002L. Students will continue to practice drawing blood using universal precautions and following OSHA regulations. Laboratory practicums will include clinical chemistry and serology.  
Prerequisite: MLS 2002L  
Corequisite: MLS 2625

**MLS 2192**  
Molecular Diagnosis  
2 Credits  
This course provides an overview of the nucleic acid structure, gene expression and genetic diseases. Fundamentals of DNA and RNA isolation, amplification, hybridization analysis will also be discussed.  
Prerequisite: MLS 2625

**MLS 2304**  
Hematology I and Body Fluids  
3 Credits  
This course will provide the student with a foundational overview of the hematopoietic system, cell differentiation, and blood cell structure. Features and characteristics of anemias, thalassemia’s and hemoglobinopathies will be covered in this course. Students will explore the components of a quality specimen for the hematology laboratory. The course will cover hematological laboratory techniques including staining techniques and identification of normal blood cells. Students will also cover the study of the body fluids and their characteristics in normal and diseased states. Characteristics of deviation from normal cells will be emphasized.  
Prerequisite: Admission to the Medical Laboratory Science program.  
Corequisite: MLS 2001L

**MLS 2307**  
Hematology II and Hemostasis  
3 Credits  
This is a continuation of MLS 2304. Students will continue to work with blood cell differentiation and hematology instrumentation. An emphasis will be placed on abnormal cell identification, and white blood cell abnormalities in leukemia, myeloproliferative, lymphoproliferative, and myelodysplastic disorders. This course will cover theory of hematological laboratory techniques including staining techniques and the identity of normal and abnormal blood cells. In addition, coagulation and hemostasis concepts, and instrumentation will be taught along with coagulopathies and platelet disorders.  
Prerequisite: MLS 2304  
Corequisite: MLS 2002L

**MLS 2460**  
Medical Microbiology I  
3 Credits  
This course will cover the foundational overview of the diagnostic microbiological system, isolation and identification of clinically significant microorganisms. There will be an emphasis on the growth characteristics and methodology for identification. Clinical laboratory diagnosis of infectious disease by serological test methods will be studied. Lectures will cover quality specimen collection, and the quality control procedures in the microbiology and serology laboratories.  
Prerequisite: Admission to the Medical Laboratory Science program.  
Corequisite: MLS 2001L

**MLS 2465**  
Medical Microbiology II  
3 Credits  
This course is a continuation of MLS 2460. Emphasis will be placed on the correlation between pathogens, types of infection, and specimen source. Study of parasites and fungi of importance will be explored. The identification of the diagnostic stages, and knowledge of specimen collection, handling, and
processing will be discussed. Lectures will continue the discussion of quality control procedures in the microbiology laboratory.

Prerequisite: MLS 2460
Corequisite: MLS 2002L

MLS 2551
Immunohematology and Immunology
4 Credits
This course will cover the theoretical aspects of the immunohematology section of the laboratory. Students will cover the study of blood group antigens, antibodies and basic immunology. The theory of blood genetics, blood group systems and pre-transfusion practices, and quality control concepts in the immunohematology laboratory will be discussed. In addition to the immunology concepts covered hemolytic disease of the fetus, neonatal and obstetric transfusion medicine testing, adverse effects of transfusion, donor screening, and blood component preparation usage will also be discussed.

Prerequisite: Admission to the Medical Laboratory Science program.
Corequisite: MLS 2001L

MLS 2624
Clinical Chemistry I and Urinalysis
3 Credits
This course will provide the introduction to the chemistry tests that monitor the processes in the human body. Quality of specimen collected and its effect on the chemistry laboratory results will be examined. The course will cover the theory of the chemistry laboratory procedures conducted. Quality assurance concepts and quality control procedures will be introduced. Point-of-care procedures will be discussed in relation to the current practice for patient care. The course also covers the study and formation of urine, chemical, and microscopic examination. This course also includes an overview of the non-urine analyzed in the clinical laboratory.

Prerequisite: Admission to the Medical Laboratory Science program.
Corequisite: MLS 2002L

MLS 2625
Advanced Clinical Chemistry
3 Credits
This course is a continuation of Clinical Chemistry I and Urinalysis. Discussion of the chemistry tests performed on serum and plasma specimens will continue. Material covered in MLS 2624 on quality control principles will be reviewed. Enzyme kinetics, endocrinology, therapeutic drug monitoring and toxicology, liver and cardiac function will be discussed, as well as, principles of instrumentation and techniques in clinical chemistry related to standardization of procedures, and use of standards and controls.

Prerequisite: MLS 2624
Corequisite: MLS 2003L

MLS 2701
Principles of Laboratory Operations
2 Credits
This course will provide students with knowledge of the role regulatory agencies and laws in the practices of the medical laboratory sciences. Students will be given information on essentials of management and quality assurance in the practices in the clinical laboratory. Emphasis will be placed on safe practices in the laboratory and elements required, and training laboratory personnel.

Prerequisite: MLS 2624

MLS 2834
Medical Laboratory Clinical I
2 Credits
Students will spend required time at a clinical affiliate and practice under the supervision of a MLS. Theory and laboratory skills attained in the student laboratory will be required in the area of urinalysis, serology, immunology and body fluids. The skills demonstrated must include critical thinking skills, ability to correlate the findings in the specimen, and patient clinical condition and disease state.

Prerequisite: MLS 2624

MLS 2835
Medical Laboratory Clinical II
5 Credits
Students will spend required time at a clinical affiliate and practice under the supervision of a MLS. Theory and laboratory skills attained in student laboratory are required in the area of the laboratory. The skills demonstrated must include critical thinking skills, the ability to correlate the findings in the specimen, and patient clinical condition and disease state.

Prerequisite: MLS 2834
Corequisite: MLS 2930

MLS 2930
Medical Laboratory Seminar
2 Credits
This course stresses the importance of evidence based practice in the medical laboratory sciences field. Students will be presenting case studies to the faculty and peers in the program. Instruction will emphasize professional, legal and ethics issues affecting the medical laboratory science field. Students will review the material covered in the program to prepare for the comprehensive examination. This will be used in preparation for the Board of Certification examination by the American Society for Clinical Pathology.

Prerequisite: MLS 2003L, MLS 2625
Corequisite: MLS 2835

MMC 2000
Introduction to Mass Communications
3 Credits
Provides an overview of the background, role, and responsibilities of the mass media; focuses on analyzing and evaluating techniques. Topics include print and electronic media and film.
MMC 2100C  
Writing for Mass Communication  
3 Credits  
Covers the basic techniques used in preparing copy for mass media including the fundamental journalistic skills used in writing for newspapers, magazines, radio, television, public relations and advertising.  
Prerequisites: College level reading and writing skills are required.  
Co-requisite: JOU 1400L

MNA 1320  
HR Recruitment Interviewing and Selection  
3 Credits  
Provides a detailed overview of staffing activities crucial to organization performance. Within the context of current law and regulations, the focus will be on the assessment of staffing needs, recruitment strategies, interviewing techniques, selection tools and methods, planning and implementation of staffing policies.

MNA 1325  
HR Statistical Analysis, Compensation and Benefits  
3 Credits  
An examination of the compensation systems in large and small organizations, the methods and implications of making wage and salary decisions, and the use of statistical analysis in decision making. Topics include: job analysis, job evaluation, wage surveys, incentives, pay equity, benefits and compensation strategy, and legal perspectives.

MSL 1001C  
Leadership and Personal Development  
2 Credits  
Introduces personal challenges and competencies critical to effective leadership; teaches personal development life skills relative to leadership, officership, and the Army profession; focuses on gaining understanding of the ROTC program and its purpose in the Army. Enrollment is limited to students who are also enrolled in the USF ROTC program.

MSL 1002C  
Introduction to Tactical Leadership  
2 Credits  
Presents leadership basics (e.g.: setting direction, problem-solving, listening, briefs, giving feedback and use of effective writing skills); explores dimensions of leadership values, attributes, skills and actions in context of practical hands-on exercises. Enrollment is limited to students who are also enrolled in the USF ROTC program.

MSL 2101C  
Innovative Team Leadership  
2 Credits  
Explores creative and innovative tactical leadership strategies and styles. Develops knowledge of leadership values and attributes by understanding Army rank, structure, and duties. Broadens knowledge of land navigation and squad tactics. Enrollment is limited to students who are also enrolled in the USF ROTC program.

MSL 2102C  
Foundations of Tactical Leadership  
2 Credits  
Examines challenges of leading tactical teams in complex current operating environment; highlights dimensions of terrain analysis, patrolling and operation orders; develops greater self-awareness, communication and team building skills. Enrollment is limited to students who are also enrolled in the USF ROTC program.

MUL 1010  
Introduction to Music  
3 Credits  
Covers the basic principles of music and techniques for listening to music, with an emphasis on Western music from the 17th century to the present. Prerequisites: College level reading and writing skills are required.

MUM 1623  
Electronic Music: Introduction to MIDI  
3 Credits  
An introduction to electronic music composition through lecture and studio instruction, with an emphasis on the MIDI system, in conjunction with computers and the digital synthesizer. Prerequisite: MUT 1111

MUN 1120  
Concert Band I  
1 Credit  
Provides for participation in a concert band which performs traditional and contemporary music. This course may be repeated four times for credit.

MUN 1310  
Chorus  
1 Credit  
Provides for participation in a chorus which performs a variety of music at college and public functions. This course may be repeated four times for credit.

MUN 1340  
Vocal Ensemble  
1 Credit
Provides for participation in small performing groups and includes the study of traditional and contemporary music. This course may be repeated four times for credit.

**MUN 1410**  
**String Ensemble**  
1 Credit  
Provides for participation in small instrumental groups and includes the study of traditional and contemporary music. This course may be repeated four times for credit.

**MUN 1420**  
**Woodwind Ensemble**  
1 Credit  
Provides for participation in small instrumental groups and includes the study of traditional and contemporary music. This course may be repeated four times for credit.

**MUN 1430**  
**Brass Ensemble**  
1 Credit  
Provides for participation in small instrumental groups and includes the study of traditional and contemporary music. This course may be repeated four times for credit.

**MUN 1440**  
**Percussion Ensemble, Small Ensemble**  
1 Credit  
Provides for participation in small instrumental groups and includes the study of traditional and contemporary music. This course may be repeated four times for credit.

**MUN 1480**  
**Classical Guitar Ensemble**  
1 Credit  
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 six times for credit.

**MUN 1710**  
**Stage Band I, Major Ensemble**  
1 Credit  
Provides for participation with a select group of musicians who perform contemporary jazz and stage band music. This course may be repeated four times for credit.

**MUS 1010**  
**Recital Attendance**  
Students in this course are required to attend recitals and concerts approved by the Hillsborough Community College, Ybor City Campus School of Visual and Performing Arts Music Department. This course is required of all students enrolled in Applied Music, principal instrument (or voice) courses. It is a non-credit S/U (Satisfactory/Unsatisfactory) course.

**MUT 1001**  
**Fundamentals of Music**  
3 Credits  
Focuses on music fundamentals for non-music majors, with an emphasis on reading music, keys, scales, simple chords and their practical application.

**MUT 1111**  
**Music Theory I**  
3 Credit  
Covers the rudiments of music, with an emphasis on major and minor scales, rhythmic and melodic notation, triads, intervals, cadences, chords and inversions and four part music writing. Topics include the development of aural and visual skills in music reading, rhythmic, melodic and harmonic dictation and the practical application of basic harmonic principles.  
Co-requisite: MUT 1241L

**MUT 1112**  
**Music Theory II**  
3 Credit  
A continuation of MUT 1111  
Co-requisite: MUT 1242L

**MUT 1241L**  
**Sight Singing and Ear Training I**  
1 Credit  
Trains students to visually and aurally recognize the melodic, rhythmic and harmonic patterns studied in Theory I, translate patterns from aural stimulus to notation and visual/cognitive stimulus to performance in real time.  
Co-requisite: MUT 1111

**MUT 1242L**  
**Sight Singing and Ear Training II**  
1 Credit  
Trains students to visually and aurally recognize the melodic, rhythmic and harmonic patterns studied in Theory II, translate patterns from aural stimulus to notation and visual/cognitive stimulus to performance in real time.  
Co-requisite: MUT 1112

**MUT 2116**  
**Music Theory III**  
3 Credits  
Focuses on the development of music from Beethoven through the 20th century, with an emphasis on the techniques of four-part harmonization, including triads and chords, with an introduction to counterpoint.  
Co-requisite: MUT 2246L

**MUT 2117**  
**Music Theory IV**  
3 Credits  
A continuation of MUT 2116  
Co-requisite: MUT 2247L
MUT 2246L
Sight Singing/Ear Training III
1 Credit
Trains students to visually and aurally recognize the melodic, rhythmic and harmonic patterns studied in Theory III, trans- late patterns from aural stimulus to notation and visual/cogni- tive stimulus to performance in real time.
Co-requisite: MUT 2116

MUT 2247L
Sight Singing/Ear Training IV
1 Credit
Trains students to visually and aurally recognize the melodic, rhythmic and harmonic patterns studied in Theory IV, trans- late patterns from aural stimulus to notation and visual/cogni- tive stimulus to performance in real time.
Co-requisite: MUT 2117

MVB 1011
Pre-Principal Freshman Trumpet (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or per- formance experience proficiencies expected of a student wish- ing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010, MUT 1001

MVB 1011
Pre-Principal Freshman Trumpet (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or per- formance experience proficiencies expected of a student wish- ing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010

MVB 1012
Pre-Principal Freshman Horn (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or per- formance experience proficiencies expected of a student wish- ing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010, MUT 1001

MVB 1012
Pre-Principal Freshman Horn (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or per- formance experience proficiencies expected of a student wish- ing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010

MVB 1013
Pre-Principal Freshman Trombone (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or per- formance experience proficiencies expected of a student wish- ing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010, MUT 1001

MVB 1013
Pre-Principal Freshman Trombone (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or per- formance experience proficiencies expected of a student wish- ing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010

MVB 1014
Pre-Principal Freshman Baritone (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or per- formance experience proficiencies expected of a student wish- ing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010, MUT 1001
MVB 1014
Pre-Principal Freshman Baritone (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated ‘A’ and ‘B.’
Co-requisite: MUS 1010

MVB 1015
Pre-Principal Freshman Tuba (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated ‘A’ and ‘B.’
Co-requisite: MUS 1010, MUT 1001

MVB 1211
Secondary Freshman Trumpet
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated 1 time for credit.
Co-requisite: MUS 1010

MVB 1212
Secondary Freshman Horn
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated 1 time for credit.
Co-requisite: MUS 1010

MVB 1311
Principal Freshman Trumpet
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVB 1312
Principal Freshman Horn
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVB 1313
Principal Freshman Trombone
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVB 1314
Principal Freshman Baritone Horn
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

**MVB 1315**  
**Principal Freshman Tuba**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Co-requisite: MUS 1010

**MVB 2221**  
**Secondary Sophomore Trumpet**  
1 Credit  
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.  
Co-requisite: MUS 1010

**MVB 2222**  
**Secondary Sophomore Horn**  
1 Credit  
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.  
Co-requisite: MUS 1010

**MVB 2223**  
**Secondary Sophomore Trombone**  
1 Credit  
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.  
Co-requisite: MUS 1010

**MVB 2224**  
**Secondary Sophomore Baritone**  
1 Credit  
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.  
Co-requisite: MUS 1010

**MVB 2321**  
**Principal Sophomore Trumpet**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVB 1311  
Co-requisite: MUS 1010

**MVB 2322**  
**Principal Sophomore Horn**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisites: MVB 1312  
Co-requisite: MUS 1010

**MVB 2323**  
**Principal Sophomore Trombone**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVB 1313  
Co-requisite: MUS 1010

**MVB 2324**  
**Principal Sophomore Baritone Horn**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVB 1314  
Co-requisite: MUS 1010

**MVB 2325**  
**Principal Sophomore Tuba**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVB 1315  
Co-requisite: MUS 1010

**MVK 1011**  
**Pre-Principal Freshman Piano (A)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space
availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010, MUT 1001

**MVK 1011**
**Pre-Principal Freshman Piano (B)**
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010

**MVK 1111 (A & B)**
**Freshman Class Piano**
1 Credit
Covers beginning piano skills for non-keyboard music majors by combining lecture and outside practice. Students may take two semesters, designated 'A' and 'B.'

**MVK 1211**
**Secondary Freshman Piano**
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.
Co-requisite: MUS 1010

**MVK 1311**
**Principal Freshman Piano**
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVK 1311
Co-requisite: MUS 1010

**MVP 1011**
**Pre-Principal Freshman Percussion (A)**
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010, MUT 1001

**MVP 1111 (A & B)**
**Freshman Class Percussion**
1 Credit
Covers beginning percussion skills for non-keyboard music majors by combining lecture and outside practice. Students may take two semesters, designated 'A' and 'B.'

**MVP 1211**
**Secondary Freshman Percussion**
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.
Co-requisite: MUS 1010

**MVP 1311**
**Principal Freshman Percussion**
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

**MVP 2221**
**Secondary Sophomore Percussion**
1 Credit
This course is a continuation of MV_222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated 1 time for credit.

Co-requisite: MUS 1010

**MVP 2321**
Principal Sophomore Percussion
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVP 1311
Co-requisite: MUS 1010

**MVS 1011**
Pre-Principal Freshman Violin (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisites: MUS 1010, MUT 1001

**MVS 1012**
Pre-Principal Freshman Viola (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisites: MUS 1010, MUT 1001
MVS 1013
Pre-Principal Freshman Cello (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisites: MUS 1010, MUT 1001

MVS 1013
Pre-Principal Freshman Cello (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010

MVS 1014
Pre-Principal Freshman String Bass (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisites: MUS 1010, MUT 1001

MVS 1014
Pre-Principal Freshman String Bass (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010
MVS 1015  
**Pre-Principal Freshman Harp**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B'.  
Co-requisite: MUT 1001 ("A" semester only), MUS 1010

MVS 1016  
**Pre-Principal Freshman Guitar (A)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B'.  
Co-requisite: MUS 1010, MUT 1001

MVS 1016  
**Pre-Principal Freshman Guitar (B)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B'.  
Co-requisite: MUS 1010

MVS 1116  
**Class Guitar**  
1 Credit  
Guitar class: group instruction in beginning classical guitar techniques. May be repeated four times for credit.

MVS 1211  
**Secondary Freshman Violin**  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.  
Co-requisite: MUS 1010

MVS 1212  
**Secondary Freshman Viola**  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.  
Co-requisite: MUS 1010

MVS 1213  
**Secondary Freshman Cello**  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.  
Co-requisite: MUS 1010

MVS 1214  
**Secondary Freshman String Bass**  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.  
Co-requisite: MUS 1010

MVS 1215  
**Secondary Freshman Harp**  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_101_ level but still does not meet the requirements for entry to the MV_131_ level course. This course may be repeated once for credit.  
Co-requisite: MUS 1010

MVS 1216  
**Secondary Freshman Guitar**  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.  
Co-requisite: MUS 1010

MVS 1311  
**Principal Freshman Violin**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Co-requisite: MUS 1010
MVS 1312
Principal Freshman Viola
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVS 1313
Principal Freshman Cello
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVS 1314
Principal Freshman String Bass
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisites: MUS 1010

MVS 1315
Principal Freshman Harp
2 Credits
This course is designed for the music major to improve technical skills, musicianship and to study appropriate repertoire with emphasis on stylistically accurate performance practices. Students must either audition successfully for placement in this course or have successfully completed the MV_101_ courses. May be repeated once for credit.
Co-requisite: MUS 1010

MVS 1316
Principal Freshman Guitar
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVS 2221
Secondary Sophomore Violin
1 Credit
This course is a continuation of MV_222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVS 2222
Secondary Sophomore Viola
1 Credit
This course is a continuation of MV_222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.
Prerequisite: MUS 1311
Co-requisite: MUS 1010

MVS 2223
Secondary Sophomore Cello
1 Credit
This course is a continuation of MV_222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVS 2224
Secondary Sophomore String Bass
1 Credit
This course is a continuation of MV_222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVS 2225
Secondary Sophomore Harp
1 Credit
This course is a continuation of MV_121_ and is designed for the music major who wishes to study a secondary instrument or for a student who has completed the MV_101_ level but still does not meet the requirements for entry to the MV_131_ level course. May be repeated once for credit.
Co-requisite: MUS 1010

MVS 2226
Secondary Sophomore Guitar
1 Credit
This course is a continuation of MV_222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVS 2321
Principal Sophomore Violin
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MUS 1311
Co-requisite: MUS 1010

MVS 2322
Principal Sophomore Viola
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This
course may be repeated once for credit.
Prerequisite: MVS 1312
Co-requisite: MUS 1010

MVS 2323
Principal Sophomore Cello
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVS 1313
Co-requisite: MUS 1010

MVS 2324
Principal Sophomore String Bass
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVS 1314
Co-requisite: MUS 1010

MVS 2325
Principal Sophomore Harp
2 Credits
This course is designed for the music major to improve technical skills, musicianship and to study appropriate repertoire with emphasis on stylistically accurate performance practices. Students must either audition successfully for placement in this course or have successfully completed the MV_101_ courses. May be repeated once for credit.
Co-requisite: MUS 1010

MVS 2326
Principal Sophomore Guitar
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVS 1316
Co-requisite: MUS 1010

MVV 1011
Pre-Principal Freshman Voice (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010

MVV 1011
Pre-Principal Freshman Voice (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010

MVV 1211
Secondary Freshman Voice
1 Credit
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010

MVV 1311
Principal Freshman Voice
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once.
Co-requisite: MUN 1310, MUS 1010

MVV 2221
Secondary Sophomore Voice
1 Credit
This course is a continuation of MV_222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated 1 time for credit.
Co-requisite: MUS 1010

MVV 2321
Principal Sophomore Voice
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVV 1311
Co-requisite: MUN 1310, MUS 1010

MVW 1011
Pre-Principal Freshman Flute (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010, MUT 1001
are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'

Co-requisites: MUS 1010, MUT 1001

**MVW 1011**  
**Pre-Principal Freshman Flute (B)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'

Co-requisite: MUS 1010

**MVW 1012**  
**Pre-Principal Freshman Oboe (A)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'

Co-requisites: MUS 1010, MUT 1001

**MVW 1012**  
**Pre-Principal Freshman Oboe (B)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'

Co-requisite: MUS 1010MVW 1013

**MVW 1013**  
**Pre-Principal Freshman Clarinet (B)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'

Co-requisite: MUS 1010

**MVW 1014**  
**Pre-Principal Freshman Bassoon (A)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'

Co-requisites: MUS 1010, MUT 1001

**MVW 1014**  
**Pre-Principal Freshman Bassoon (B)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'

Co-requisite: MUS 1010

**MVW 1015**  
**Pre-Principal Freshman Saxophone (A)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'

Co-requisites: MUS 1010, MUT 1001
MVW 1015
**Pre-Principal Freshman Saxophone (B)**
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Co-requisite: MUS 1010

MVW 1211
**Secondary Freshman Flute**
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVW 1212
**Secondary Freshman Oboe**
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVW 1213
**Secondary Freshman Clarinet**
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVW 1214
**Secondary Freshman Bassoon**
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Co-requisite: MUS 1010

MVW 1215
**Secondary Freshman Saxophone**
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Co-requisite: MUS 1010

MVW 1311
**Principal Freshman Flute**
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVW 1312
**Principal Freshman Oboe**
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVW 1313
**Principal Freshman Clarinet**
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVW 1314
**Principal Freshman Bassoon**
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVW 1315
**Principal Freshman Saxophone**
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Co-requisite: MUS 1010

MVW 2221
**Secondary Sophomore Flute**
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Co-requisite: MUS 1010
MVW 2222
Secondary Sophomore Oboe
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Co-requisite: MUS 1010

MVW 2223
Secondary Sophomore Clarinet
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Co-requisite: MUS 1010

MVW 2224
Secondary Sophomore Bassoon
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Co-requisite: MUS 1010

MVW 2225
Secondary Sophomore Saxophone
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Co-requisite: MUS 1010

MVW 2321
Principal Sophomore Flute
2 Credits
Students must audition for placement in this course and will receive private instruction on one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVW 1311
Co-requisite: MUS 1010

MVW 2322
Principal Sophomore Oboe
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVW 1312
Co-requisite: MUS 1010
course may be repeated once for credit.
Prerequisite: MVW 1313
Co-requisite: MUS 1010

**MVW 2324**  
**Principal Sophomore Bassoon**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVW 1314  
Co-requisite: MUS 1010

**MVW 2325**  
**Principal Sophomore Saxophone**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once.
Prerequisite: MVW 1315  
Co-requisite: MUS 1010

**NMT 1002**  
**Introduction to Nuclear Medicine Technology**  
2 Credits  
Provides an overview of the field of nuclear medicine. Focuses on medical terminology, the history of nuclear medicine, basic concepts of radiochemistry, the production of radionuclides, medical law, and hospital administration. Field trips to nuclear medicine training facilities are included.
Prerequisite: NMT 1705L (Nuclear Medicine Tech I Lab)  
Co-requisite: NMT 1705L

**NMT 1103**  
**Patient Care**  
2 Credits  
Covers concepts of patient care with an overview of proper patient management. Addresses issues of ethics as they relate to patient care, healthcare, and the profession of nuclear medicine.
Prerequisite: NMT 1002  
Co-requisite: NMT 1706L (Nuclear Medicine Tech Lab II)

**NMT 1312**  
**Radiation Safety and Health Physics**  
3 Credits  
Covers proper techniques in the safe handling of radioactive materials, with an emphasis on proper receipt, usage, storage and disposal of radioactive materials. Topics include rules, standards, regulations and biological effects of radiation.
Prerequisite: NMT 1613

**NMT 1534**  
**Instrumentation, Quality Control and Quality Assurance**  
3 Credits  
Covers the operation and design principles of radiation detection and imaging instruments used in nuclear medicine, computed tomography scanners, magnetic resonance, imaging scanners, medical informatics and computers used in imaging.  
Also includes quality control of instruments and quality assurance programs.
Prerequisite: NMT 1613  
Co-requisite: NMT 1706L

**NMT 1534L**  
**Nuclear Instrumentation Laboratory**  
1 Credit  
Accompanies NMT 1534. Laboratory exercises include plotting gamma spectra, instrument calibration, detector resolution, simultaneous and radio nuclide quantification.
Co-requisite: NMT 1534

**NMT 1613**  
**Nuclear Physics and Instrumental Applications**  
3 Credits  
Covers the basic concepts of quantum theory and radiation physics with an emphasis on radioactive decay and the interaction of radiation with matter. Basic radiation safety, the physics of nuclear medicine instruments health physics, and dosimetry.
Prerequisite: Admission to Nuclear Medicine Technology program.
Co-requisite: NMT 1705L, NMT 1714

**NMT 1705L**  
**Nuclear Medicine Laboratory I**  
1 Credit  
Introduces student to radio-pharmacy and nuclear medicine department settings. Laboratory exercises include proper identification of equipment and use, radiation detection, radiation safety and shielding, instrument calibration, and proper instrumentation technique. Students will be required to pass practical competencies.
Prerequisite: Admission to Nuclear Medicine Technology program.
Co-requisites: NMT 1002, NMT 1613, NMT 1713

**NMT 1706L**  
**Nuclear Medicine Laboratory II**  
1 Credit  
Prepares students for practicum courses and clinical applications in nuclear medicine by practicing patient transport and transfer, patient positioning, patient care skills, venipuncture, image processing and analysis, principles of radiation safety, and daily applications in the field of nuclear medicine technology. Laboratory exercises also include radiation detection, instrument calibration, detector resolution, instrument quality control, trouble-shooting, and proper technique. Students will be required to pass practical competencies. Completion of practical competencies is required.
Prerequisite: NMT 1705L  
Co-requisites: NMT 1103, NMT 1534, NMT 1723, NMT 2430

**NMT 1713**  
**Nuclear Medicine Methodology I**  
3 Credits
Comprehensive study of nuclear medicine procedures with special emphasis on radiochemistry, radio-pharmacy, preparation and properties of radiopharmaceuticals and routine imaging techniques. Imaging topics include skeletal, pulmonary, and endocrine systems. Includes case studies and image review.
Prerequisite: Admission to Nuclear Medicine Technology program.
Co-requisite: NMT 1705L, NMT 1714

NMT 1714
Pathology and Immunology for the NMT
3 Credits
Introduces the student to human immunology and pathological conditions with an emphasis on those commonly seen in the field of nuclear medicine. Basic anatomy is reviewed in correlation to the pathophysiology of disease. Descriptions of how diseases are classified, diagnosed and treated, as well as the natural course/prognosis of these diseases are presented.
Prerequisite: Admission to the Nuclear Medicine Technology program.
Co-requisite: NMT 1713

NMT 1723
Nuclear Medicine Methodology II
3 Credits
Comprehensive study of nuclear medicine procedures with special focus on cardiovascular, gastrointestinal, and genitourinary systems. Emphasis is given to radiopharmaceuticals, routine imaging techniques, ancillary pharmacology, and quantitative analysis. Includes image review and case studies.
Prerequisite: NMT 1002
Co-requisite: NMT 1706L

NMT 1804
Nuclear Medicine Practicum I
3 Credits
Allows students to apply knowledge gained in lectures and laboratories to clinical situations. Consists of up to 32 hours per week of clinical training in affiliate nuclear medicine departments. Under the guidance of registered technologists and physicians, students experience in the clinical setting. Competencies required.
Prerequisites: NMT 1706L, NMT 1723

NMT 1814
Nuclear Medicine Practicum II
4 Credits
Continuation of NMT 1804L. Consists of up to 32 hours per week of clinical training in affiliate nuclear medicine departments. Under the guidance of registered technologists and physicians, students gain experience in the clinical setting. Competencies on imaging and non-imaging procedures are required.
Prerequisite: NMT 1804

NMT 2051L
Nuclear Medicine Data Analysis
1 Credit
and data analysis associated with nuclear medicine.
Prerequisite: NMT 2733
Co-requisite: NMT 2061C

NMT 2061C
Nuclear Medicine Seminar
2 Credits
Correlated review and comprehensive testing in preparation for professional certification examinations. Students are required to complete oral presentations, and participate in professional activities.
Prerequisites: NMT 2733, NMT 2910

NMT 2430
Radiation Safety and Biology
3 Credits
Focuses on the interaction of ionizing radiation with physiological systems, genetics, radiation injury, and radiation dosimetry with an emphasis on the principles of radiation safety. Includes proper techniques in the safe handling of radioactive materials, proper receipt, usage, storage and disposal of radioactive materials. Topics include rules, standards, and regulations.
Prerequisites: NMT 1002, NMT 1613
Co-requisite: NMT 1534

NMT 2733
Nuclear Medicine Methodology III
4 Credits
Continues the comprehensive study of nuclear medicine procedures with special emphasis on infection, the central nervous system, oncology, hematopoietic, radioimmunoassay, and therapies. Includes radiopharmaceuticals, pharmacology, image analysis, case studies and image review.
Prerequisite: NMT 1723

NMT 2775C
PET/CT and Cross Sectional Anatomy
3 Credits
Comprehensive study of positron emission, computed tomography and fusion imaging procedures. Emphasis is given to radiotracer methodology, preparation and properties of positron emission radiopharmaceuticals, routine imaging techniques, ancillary pharmacology including contrast agents, and quantitative analysis. Includes anatomy and pathology in cross-sectional planes for SPECT, PET, CT, and MRI using case studies and image review. Laboratory assignments and competencies also included.
Prerequisites: NMT 1103, NMT 2714, NMT 2430
Co-requisite: NMT 1814

NMT 2824
Nuclear Medicine Practicum III
4 Credits
Continuation of NMT 1814L. Consists of up to 32 hours per week of clinical training in affiliate nuclear medicine departments. Under the guidance of registered technologists and physicians, students gain experience in the clinical setting. Competencies on imaging and non-imaging procedures are required.
Prerequisite: NMT 1814

NMT 2905
Directed Independent Study: Advanced Clinical Practices
4 Credits
Supervised sessions in computed tomography, PET and or SPECT/CT with specific assignments and case studies to include math problems, instrumentation, and quality control. Clinical rotations through a variety of specialty areas including nuclear medicine fusion studies with PET/CT and or SPECT/CT and computed tomography departments to complete required exams and competencies of various patient age groups (pediatric/geriatric) and pathologies. Experience in the clinical environment for 36 hours per week for 16 weeks.
Prerequisites: NMT 1312, NMT 2061C, NMT 2733.

NMT 2910
Advanced Topics and Research Methods
2 Credits
Covers research methods and ethics as it relates to medical research and scientific writing techniques. Includes review of current research as it relates to the field of nuclear medicine and molecular imaging. Students are required to complete a research paper and present research in written and oral form.
Prerequisites: NMT 1103, NMT 1714, NMT 2430
Corequisite: NMT 1814

NUR 1000
Introduction to Basic Healthcare Concepts
1 Credit
This course will introduce transition students (LPN/RN) to the nursing process and the role of the associate in arts degree nurse, utilizing previous knowledge and skills. Nursing history and theorists will be introduced. Emphasis will be placed on the role changes. The program threads of legal/ethical issues, communication, patient education, and cultural diversity will be introduced.
Co-requisite: NUR 1260C

NUR 1020
Fundamental Concepts of Nursing Practice
4 Credits
This course provides for the acquisition and application of fundamental concepts important to the practice of nursing including those related to patient-centered care, the healthcare environment, and professional nursing practice. Includes care of the stable, acute, and chronically ill adults and elderly patients with a focus on the promotion of wellness, maintenance of health, and prevention of illness. Application of knowledge and skills occurs in nursing laboratories and clinical setting.
Prerequisite: Acceptance into the Nursing program.
Co-requisites: NUR 1020L, NUR 1023C, NUR 1024
NUR 1020L

Fundamental Concepts of Nursing Practice Clinical
2 Credits
This course provides for the acquisition and application of fundamental concepts important to the practice of nursing including those related to patient-centered care, the healthcare environment, and professional nursing practice. Includes care of the stable, acute, and chronically ill adults and elderly patients with a focus on the promotion of wellness, maintenance of health, and prevention of illness. Application of knowledge and skills occurs in nursing laboratories and clinical setting.
Prerequisites: Acceptance into the Nursing program.
Corequisites: NUR 1020, NUR 1020L, NUR 1024

NUR 1022C

Essential Concepts of Patient Care Management
2 Credits
This course presents the theoretical basis for assessing the health status of individuals across the lifespan and the basis for planning safe, quality patient-centered care that reflects understanding of pharmacology and nutrition. The course introduces how the professional nurse uses this theory to plan developmental, cultural and lifestyle appropriate approaches to nursing care. Includes the role of the nurse in identifying and communicating normal findings and common deviations of normal. Focuses on safety and quality improvement related to pharmacological interventions. Physical assessment techniques are taught in the nursing laboratory.
Prerequisites: Acceptance into the Nursing program.
Corequisites: NUR 1024, NUR 1440, NUR 1522C

NUR 1023C

Essential Concepts of Patient Management
3 Credits
This course presents the theoretical basis for assessing the health status of individuals across the lifespan and the basis for planning safe, quality patient-centered care that reflects understanding of pharmacology and nutrition. The course introduces how the professional nurse uses this theory to plan developmental, culturally, and lifestyle appropriate approaches to nursing care. Includes the role of the nurse in identifying and communicating normal findings and common deviations of normal. Focuses on safety and quality improvement related to pharmacological and nutritional interventions, and health assessment techniques are taught in the nursing laboratory and simulation suite.
Prerequisite: Acceptance into the Nursing program.
Corequisites: NUR 1020, NUR 1020L, NUR 1023C

NUR 1024

Critical Thinking in Nursing Practice
2 Credits
This course introduces the learner to critical thinking used in nursing. In this course the student learns to use critical skills and strategies that underscore the clinical reasoning represented in the nursing process as well as dealing with aspects of the healthcare system for safe practice in the current healthcare environment. This course forms the basis for critical thinking processes applied throughout all nursing courses.
Prerequisites: Acceptance into the Nursing program.
Corequisites: NUR 1020, NUR 1020L, NUR 1023C

NUR 1060

Health Assessment
3 Credits
Provides the student with the basic skills needed for health assessment. In simulated laboratory setting clients will be assessed physically, psychologically, and socially across the lifespan. Topics include the health history, objective physical examination and subjective client information coordinated within the framework of the nursing process. The student will be able to differentiate common deviations from the norm.

NUR 1141

Pharmacology in Nursing
3 Credits
This course will introduce basic concepts of pharmacology related to the actions of drugs, therapeutic and adverse effects, and food and interactions of these drugs used in the treatment of acute and chronic diseases. Drug classification will be presented based on body system and disease process format. Emphasis is placed on nursing implications and patient education in collaboration with other treatment modalities needed in patient care. Legal aspects of drug administration including safety and precautionary measures will be included. Calculation of medication doses and various routes of administration will be discussed. Students will be able to apply this knowledge in subsequent nursing courses as they care for clients across the lifespan.
Prerequisite: NUR 1213C

NUR 1213C

Nursing Process I
10 Credits
Focuses on nursing theory and application of the nursing process, including the understanding and setting of priorities in health care. Students will participate in simulated laboratory learning and will perform guided patient care in various health care settings. Class work will emphasize basic nursing care for clients with common health problems affecting oxygenation, circulation, elimination, neurosensory and musculoskeletal systems. Also included are concepts related to pharmacology, communication, teaching, legal/ethical and computer literacy.
Prerequisite: Acceptance into the Nursing program, BSC 2086.

NUR 1260C

Nursing Process II
10 Credits
Focuses on the nursing theory and application of the nursing process for clients experiencing chronic health problems. Students will build on prior knowledge as they plan and implement care in the laboratory and clinical settings for clients dealing with chronic renal, cardiac/respiratory, psychiatric and neuromuscular disorders. Class work will emphasize the unique bio psycho social needs of this population. Content will...
continue to enhance the students understanding of pharmacology, communication, teaching, legal/ethical and computer literacy concepts.
Prerequisite: NUR 1213C

NUR 1310C
Concepts of Pediatric Nursing
3 Credits
This course builds on all previous nursing courses to further refine and apply the concepts of nursing practice to the care of children. Application of knowledge and skills occurs in the nursing laboratories and a variety of clinical settings.
Prerequisites: NUR 1020, NUR 1020L, NUR 1023C, NUR 1024
Corequisites: NUR 1421C, NUR 1520C

NUR 1421C
Concepts of Nursing Care for Woman and Infants
3 Credits
This course builds on previous nursing courses to provide for the acquisition and application of concepts of nursing applied to the care of woman and infants. Application of knowledge and skills occurs in the nursing laboratories and a variety of clinical settings.
Prerequisites: NUR 1020, NUR 1020L, NUR 1023C, NUR 1024
Corequisites: NUR 1310C, NUR 1520C

NUR 1440
Concepts of Family Nursing
4 Credits
This course builds on all previous nursing courses to further refine and apply the concepts of nursing practice to the care of women, infants, and children through adolescence. Application of knowledge and skills occurs in the nursing laboratories and a variety of clinical settings.
Prerequisite: Acceptance into the Nursing Program
Corequisites: NUR 1022C, NUR 1024, NUR 1522C

NUR 1520C
Concepts of Mental Health Nursing
4 Credits
This course builds on the fundamental concepts providing for the acquisition of additional concepts and application of concepts of nursing applied to the care of patients with mental health conditions. Application of knowledge and skills occurs in a variety of clinical settings.
Prerequisites: NUR 1020, NUR 1020L, NUR 1023C, NUR 1024
Corequisites: NUR 1310C, NUR 1421C

NUR 1522C
Concepts of Mental Health Nursing - Transition
3 Credits
This course builds on fundamental concepts providing for the acquisition of additional concepts and application of concepts of nursing applied to the care patients with mental health conditions. Application of knowledge and skills occurs in a variety of clinical settings.
Corequisites: NUR 1022C, NUR 1024, NUR 1440

NUR 2205C
Complex Simulation
2 Credits
This course utilizes simulation to further expand on the concepts of nursing practice with application to the care of adult and pediatric patients with stable and unstable conditions. Patient care experiences are provided in the simulation suite.
Prerequisites: NUR 1310C, NUR 1421C, NUR 1520C,
Corequisites: NUR 2210, NUR 2210L

NUR 2210
Concepts of Adult Health I
5 Credits
This course further expands on the concepts of nursing practice with application to the care of adult patients with stable and unstable conditions. The course focuses on a variety of adult patient populations in the classroom and simulation to provide the necessary patient care experiences. Application of knowledge and skills occurs in the nursing laboratories and in a variety of clinical settings.
Prerequisites: NUR 1310C, NUR 1421C, NUR 1520C
Corequisites: NUR 2205C, NUR 2210L

NUR 2210L
Concepts of Adult Health I Clinical
3 Credits
This course further expands on the concepts of nursing practice with application to the care of adult patients with stable and unstable conditions. The course focuses on a variety of adult patient populations in the classroom and simulation to provide the necessary patient care experiences. Application of knowledge and skills occurs in the nursing laboratories and in a variety of clinical settings.
Prerequisites: NUR 1310C, NUR 1421C, NUR 1520C
Corequisites: NUR 2205C, NUR 2210

NUR 2211
Concepts of Adult Health II
5 Credits
This course builds on all previous nursing courses to further refine and apply concepts of nursing practice to the care of adult patients with complicated conditions. The course focuses on a variety of adult patients through clinical experiences and simulation to provide the necessary patient care experiences. Application of knowledge and skills occurs in the nursing laboratories and a variety of clinical settings.
Prerequisites: NUR 2205C, NUR 2210, NUR 2210L
Corequisites: NUR 2211L, NUR 2811C

NUR 2211L
Concepts of Adult Health II Clinical
3 Credits
This course builds on all previous nursing courses to further refine and apply concepts of nursing practice to the care of adult patients with complicated conditions. The course focuses on a variety of adult patients through clinical experiences and simulation to provide the necessary patient care experiences.
ences. Application of knowledge and skills occurs in the nursing laboratories and a variety of clinical settings.
Prerequisites: NUR 2205C, NUR 2210, NUR 2210L
Corequisites: NUR 2211, NUR 2811C

**NUR 2243C**
**Nursing Process IV**
10 Credits
Focuses on advanced nursing theory, the nursing process and techniques involved in caring for the adult client with complex health problems. Decision making and management theory will be emphasized. Selected clinical experiences will complement the class work. A portion of the clinical time will allow students to work with an RN preceptor to implement nursing care for groups of individuals in the acute care area.

**NUR 2412C**
**Nursing Process III**
10 Credits
Focuses on the nursing theory and application of the nursing process of the childbearing family and children from conception through the adolescence period of development. Students will be building on prior knowledge as they plan and implement care in the laboratory and clinical settings for clients dealing with related common, chronic and complex problems. Class work will emphasize the unique bio psycho social needs of this population. Content will continue to enhance the students understanding of pharmacology, communication, teaching, legal/ethical, and computer literacy concepts.
Prerequisite: NUR 1213C

**NUR 2413C**
**Nursing Process III Transition Option**
9 Credits
This course focuses on the physical, emotional and psychosocial needs of the family. The nursing process is applied to the special needs of the childbearing family. This course includes nursing care of the childbearing mother and family and care of the infant through adolescence. The learner will build on specific cognitive and psychomotor skills acquired from their practical nurse education and demonstrate competent performance in the clinical setting.
Prerequisite: NUR 1213C

**NUR 2413C**
**Nursing Process III Transition Option**
9 Credits
This course focuses on the physical, emotional and psychosocial needs of the family. The nursing process is applied to the special needs of the childbearing family. This course includes nursing care of the childbearing mother and family and care of the infant through adolescence. The learner will build on specific cognitive and psychomotor skills acquired from their practical nurse education and demonstrate competent performance in the clinical setting.
Prerequisite: NUR 1213C

**NUR 2412C**
**Nursing Process III**
10 Credits
Focuses on the nursing theory and application of the nursing process of the childbearing family and children from conception through the adolescence period of development. Students will be building on prior knowledge as they plan and implement care in the laboratory and clinical settings for clients dealing with related common, chronic and complex problems. Class work will emphasize the unique bio psycho social needs of this population. Content will continue to enhance the students understanding of pharmacology, communication, teaching, legal/ethical, and computer literacy concepts.
Prerequisite: NUR 1213C

**NUR 2521C**
**Mental Health Nursing**
2 Credits
This course emphasizes the role of the professional nurse in assessing, planning and implementing care of clients with psychiatric disorders that require hospitalization. An overview of psychopathology and treatment modalities is included. The clinical experience will focus on the nursing process in the planning and care of these clients.
Prerequisites: NUR 1213C, NUR 1260C
Co-requisite: NUR 2412C or NUR 2413C

**NUR 2650C**
**Transcultural Nursing: Study of Healthcare in an International Setting**
3 Credits
Provides the student the opportunity to experience a direct relationship with healthcare providers and recipients from various cultural backgrounds in an international setting. The students will learn transcultural healthcare concepts related to health belief systems, major health issues across the life span, epidemiological rates of health issues, nutrition and environmental issues affecting health. Healthcare delivery systems and healthcare professions, including required education, will be examined. Students will learn and practice cross cultural communications skills. The students will travel to a supervised site for theoretical concepts as well as clinical experiences. The students will gain valuable components of learning process relating to culturally diverse communities with emphasis on holistic care.
Prerequisites: Nursing Student or Licensed Nurse. College level reading, writing and math skills required.

**NUR 2811C**
**Role Transformation**
3 Credits
This courses focuses on the student’s exploration of personal and professional topics leading to the successful transformation from nursing education to a rapidly changing work environment. Effective clinical judgement, inter-professional collaboration and optimizing patient outcomes will be demonstrated in both clinical and simulation settings. To ensure consistent, quality care for complex health problems across the life span. Emphasis is also place on preparing students for the NCLEX exam by implementing NCLEX preparation plans based on various measurement tools.
Prerequisites: NUR 2205C, NUR 2210, NUR 2210L
Corequisites: NUR 2211, NUR 2211L

**OCB 2000**
**Marine Biology**
3 Credits
An introductory course covering the complexities of the marine environment. Topics include an introduction to marine habitats, marine organisms, ecological interactions and methods used by oceanographers and marine biologists.
Prerequisites: College level reading, writing and math skills required.
Co-requisite: OCB 2000L

**OCB 2000H**
**Honors Marine Biology**
3 Credits
Same as OCB 2000 with honors content. Honors Program permission required.
Co-requisite: OCB 2000L
OCB 2000L
Honors Marine Biology Laboratory
1 Credit
Accompanies OCB 2000H; same as OCB 2000L with honors content. Honors Program permission required.
Co-requisite: OCB 2000H

OCE 2001C
Introduction to Oceanography
3 Credits
This course provides a study of the ocean and survey of the basic principles and procedures of physical, biological, chemical, and geological oceanography. This interdisciplinary approach to understanding ocean processes and ecosystems explores: the origins of the oceans, the physical and chemical features of seawater and ocean sediments; ocean basins, plate tectonics, climate; waves, tides, ocean currents, and oceanic ecosystems. The course introduces the oceanic lifestyles of plankton, benthos, and nekton; and it explores the importance of ocean resources in relation to policy, economics, and society. The laboratory component my include field trips.
Prerequisites: College level reading, writing and math skills are required.

OPT 1000
Ophthalmic Orientation
1 Credit
Presents an introduction to the field of vision care, including opticianry, optometry, ophthalmology and optical manufacturing. Topics include ophthalmic history, legal and ethical principles, patient history, terminology and abbreviations.

OPT 1155
Ophthalmic Lens I
3 Credits
Provides a brief history of the development of glass and plastic lenses, the various sphere, cylinder and prism powers, the use of optical cross, flat and toric transposition, and the aberrations of lenses.
Corequisite: OPT 1000

OPT 1156
Ophthalmic Lens II
3 Credits
This course continues the study of optical theory. Topics include: prism notation; vertical imbalance and methods of correcting for it; vertex power; luminance; reflection and absorption; diffraction; third order lens aberrations, and lens tilt; anisometropia, and spectacle magnification.
Prerequisite: OPT 1155

OPT 1225
Low Vision
3 Credits
Provides a definition of visual impairment and methods used to measure its severity. A description of the most common causes of visual impairment will be presented. Treatment plans including optical and non-optical aids will be reviewed.

OPT 1400L
Ophthalmic Laboratory I
3 Credits
Introduces the student to terms, instruments, lenses, frames, and materials to be used in the finishing process and handwork of ophthalmic prescription eyewear.
Prerequisite: OPT 1460L

OPT 1430L
Ophthalmic Laboratory II
3 Credits
Introduces the student to terms, instruments, lenses, frames and materials to be used in the finishing process and handwork of ophthalmic prescription eyewear. This course is a continuation of Ophthalmic Laboratory I.
Prerequisite: OPT 1400, OPT 1400L

OPT 1460
Ophthalmic Dispensing I
3 Credits
This course introduces the student to the skills necessary for becoming a dispensing optician. Included are the history of the profession, patient/client measurements, frame and lens materials, frame and lens selection, prescription, prescription analysis, and adjustment techniques.
Corequisite: OPT 1000

OPT 1460L
Ophthalmic Dispensing Laboratory I
3 Credits
Designed to introduce the students to the practical dispensing of optical products. The students will perform competencies related to the neutralization of single vision lenses and multifocal lenses for duplication, measurement of frames and mountings, and the measurement of PD's.
Corequisite: OPT 1000

OPT 1666
Safety and Sports Vision
3 Credits
Opticians are constantly requested to provide eyewear that
will better protect, improve and enhance vision for occupational and recreational activities. This course will present the visual requirements for common occupations and sports. It will also discuss spectacle, contact lens, and non-optical solutions to safety and sports vision problems.

**OPT 2030**  
**Ophthalmic Board Review**  
1 Credit  
Provides a comprehensive review and update of opticianry dispensing in preparation for the Florida State Board of Opticianry examination.  
Corequisites: OPT 2376L, OPT 2502L

**OPT 2204**  
**Anatomy and Physiology of the Eye**  
3 Credits  
Investigates the anatomical structure of the eye and the function of its parts as they pertain to the process of vision.  
Corequisite: OPT 1000

**OPT 2375**  
**Refractometry**  
2 Credits  
Designed to instruct the students in the theory of refractometry and testing for visual acuity. It will include identifying ametropias, the etiology and distribution of refractive errors and anomalies of binocular vision. The steps in performing retinoscopy, objective and subjective refraction procedures will be covered.  
Prerequisite: OPT 2204

**OPT 2375L**  
**Refractometry Laboratory I**  
2 Credits  
Continuation of OPT 2375 designed to introduce the students to the procedures of an objective and subjective refraction. Students will perform competencies related to retinoscopy, patient history, binocular balance and subjective testing for visual acuity. Primarily a hands-on course. The students will gain practice in testing VA (cc and sc), retinoscopy, subjective refraction and binocular balancing in a clinically safe environment.  
Corequisite: OPT 2375

**OPT 2376L**  
**Refractometry Laboratory II**  
1 Credit  
Continuation of OPT 2375L. Designed to fine tune the procedures of objective and subjective refractions. Students will perform competencies related to measuring visual acuity and taking a patient history, retinoscopy (review), confrontations and EOM’s, pupillary functions, balance and binocular/ phoria/tropia testing. Primarily a hands-on course to help the students gain speed and accuracy in performing objective and subjective refractions.  
Prerequisite: OPT 2375L

**OPT 2461**  
**Ophthalmic Dispensing II**  
3 Credits  
This course presents ophthalmic instruments and devices; analysis of absorptive lenses; computing and compensation of vertical imbalance; discussion of ethics and legal issues; record keeping and communications; optical salesmanship, and visual impairment.  
Prerequisite: OPT 1460L

**OPT 2461L**  
**Ophthalmic Dispensing Laboratory II**  
3 Credits  
Designed to introduce students to the practical aspects of frame alignments and adjustments, and the insertion and removal of lenses from various frames. Includes further instruction and practice on neutralization of lenses for verification and duplication of an Rx order, measure and caliper of lenses and frames, the facial measurements of orders (PD and seg heights), frame repair and the identification of various types of lenses.  
Prerequisite: OPT 2461

**OPT 2463L**  
**Ophthalmic Skills Laboratory I**  
2 Credits  
This course is designed to educate students in the technical skills of performing various procedures within the ophthalmic visual assessment area of a dispensary. The course will present technical equipment procedures, maintenance and use, as well as the skills needed in assisting Optometrists and patients with various procedures such as administering medicines and pharmacology identification and uses.  
Prerequisite: OPT 2461

**OPT 2500**  
**Contact Lens Theory I**  
3 Credits  
This course includes a historical review as well as theory; design and optical principle of contact lenses; indications and contraindications for contact lens wear; patient evaluation; discussion of lens types and availability; fundamental techniques and fitting philosophies including the role of the biomicroscope, keratometer and radiuscope; patient education on care, cleaning, insertion and removal of contact lenses.  
Prerequisite: OPT 2204

**OPT 2500L**  
**Contact Lens I Laboratory**  
2 Credits  
Students will perform competencies related to the handling of instruments and charts used in the fitting and designing of contact lenses, and the handling and evaluation of contact lenses by the fitter and the patient.  
Corequisite: OPT 2500
OPT 2501
Contact Lens Theory II
2 Credits
Emphasizes contact lens verification, dispensing, and follow up care. The fitting of astigmatic, presbyopic, and special needs patients will also be covered.
Prerequisite: OPT 2500

OPT 2501L
Contact Lens II Laboratory
2 Credits
Students will perform competencies related to the design, inspection, modification, evaluation and dispensing of spherical contact lenses. The fitting of astigmatic, presbyopic, and other special contact lens patients will also be covered.
Corequisite: OPT 2501

OPT 2502L
Contact Lens III Laboratory
1 Credit
Advanced hands-on experience in fitting contact lenses.
Prerequisite: OPT 2501L

OPT 2800L
Vision Care Clinical I
2 Credits
This course is designed to allow students to apply knowledge gained in lectures and laboratories to clinical situations. Depending on the placement, the student may utilize skills related to management, fabrication, dispensing, contact lenses or visual assessment.
Prerequisite: OPT 1460L

OPT 2801L
Vision Care Clinical II
2 Credits
This course is designed to allow students to apply knowledge gained in lectures and laboratories to clinical situations. Depending on the placement, the student may utilize skills related to management, fabrication, dispensing, contact lenses or visual assessment.
Prerequisite: OPT 1460L

OPT 2802L
Vision Care Clinical III
2 Credits
This course is designed to allow students to apply knowledge gained in lectures and laboratories to clinical situations. Depending on the placement, the student may utilize skills related to management, fabrication, dispensing, contact lenses or visual assessment.
Prerequisites: OPT 2800L, OPT 2801L

OPT 2803L
Vision Care Clinical IV
2 Credits
This course is designed to allow students to apply knowledge gained in lectures and laboratories to clinical situations. Depending on the placement, the student may utilize skills related to management, fabrication, dispensing, contact lenses or visual assessment.
Prerequisites: OPT 2800L, OPT 2801L

OPT 2910
Directed Research
3 Credits
Covers the research, planning and development of an optical dispensary. Topics include the type, size, location and design, as well as financing, business structure, taxes, licenses and equipment.
Prerequisite: OPT 2461L

ORH 1523
Native Upland Plants
2 Credits
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 materials in the ecological and esthetic situations of this area will be an additional objective. Most instruction will be done in the field utilizing local passive and active-use parks.

ORH 1524
Native Wetland Plants
2 Credits
A continuation of ORH 1523, Native Upland Plants, and includes the identification of approximately 100 plants and plant groups native or naturalized in the 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 also be discussed. Most instruction will be done in the field.

OST 1100C
Keyboarding and Document Processing
3 Credits
Introduces proper keyboarding technique that develops touch control of the keyboard and builds speed and accuracy. Emphasis of using basic touch key skills will be continued while using word processing software features for the production and merging of business correspondence, tables, reports, mail, meeting, and travel documents. A minimum of one hour per week in the lab is required.
Prerequisite: College level reading and writing skills are required.

OST 1142
Keyboarding I
1 Credit
Provides instruction in the touch system of typing on the personal computer.

OST 1143
Keyboarding II
1 Credit
Provides instruction in the touch system of keyboarding with an emphasis on speed and accuracy.
Prerequisite: OST 1142

**OST 1335**
**Business Communications**
3 Credits
Presents an overview of business communications, including international considerations, and focuses on constructing proper business letters, with an emphasis on various styles, such as sales, claims, credit reference, collection, requests, order and refusal. Preparation for and formatting of proposals and business reports is also included.

**OST 1741**
**Word Processing I**
1 Credit
Provides hands-on experience in a specific word processing software. Students may select more than one software by repeating the course three times for credit. However, only one credit hour will apply toward meeting program graduation requirements.
Prerequisite: OST 1100

**OST 1813**
**Desktop Publishing**
3 Credits
Uses a page layout software program to cover the basic skills required for the preparation of flyers, brochures, and newsletters in camera ready form, with an emphasis on composition, type styles, and layout. Students must take noted prerequisite or obtain permission of instructor.
Prerequisite: CGS 1000 or OST 2854C

**OST 1831**
**Introduction to Windows I**
1 Credit
Covers basic commands of Windows software.

**OST 1832**
**Introduction to Windows II**
1 Credit
Intermediate course covering Windows commands.
Prerequisite: OST 1831 or permission of instructor.

**OST 1941**
**OST Internship**
3 Credits
On-the-job training related to the coursework completed at HCC in the Office Systems Technology Department. Involves a "learning by doing" educational approach. Internships will be provided at HCC and Tampa area businesses.

**OST 2135**
**Medical Office Procedures**
3 Credits
Uses a medical software program to input patient information, schedule appointments, and process insurance claims and billing. A minimum of one hour per week in the laboratory is required. College level reading, writing and math skills required.

**OST 2357**
**Electronic Records Management**
3 Credits
Develops managerial and decision-making techniques for the records manager. Involves the study of systems analysis, forms development, archival administration, personnel development, and the establishment of a records management program.

**OST 2501**
**Office Administration**
3 Credits
Focuses on organizing, planning and controlling office operations with an emphasis on motivation and productivity. Topics include human resources, work environment and information systems.

**OST 2742**
**Word Processing II**
1 Credit
Focuses on more complex technical procedures on the software studied in Word Processing I. Students may select more than one software application by repeating the course three times for credit. However, only one credit hour will apply toward meeting program graduation requirements.
Prerequisite: OST 1741

**OST 2743**
**Word Processing III**
1 Credit
Continues with more complex technical procedures on the software studied in Word Processing II. Students may select more than one software application by repeating this course three times for credit. However, only one credit hour will apply toward meeting program graduation requirements.
Prerequisite: OST 2742

**OST 2797**
**Social Media for Business**
3 Credit
This course will examine the history, development and best practices of social media as they relate to business. Students will analyze which social media tools and platforms are being used to develop audiences for promoting business and providing customer service. Students will develop a clear understanding of the function of social media and generate an original perspective about the relevance of social media and its appropriate use in different platforms.
Prerequisite: College reading, writing and math skills required.

**OST 2854C**
**Office Applications for Business**
3 Credit
This a beginning to intermediate office application course. Students will learn how to employ current productivity software
in a Windows Operating System environment to solve business problems. Students will learn to create and edit documents using work processing, spreadsheet, database, presentation and personal information management software. Video conferencing software common in business environments will be applied. College reading and writing skills required.

**OST 2858**  
**Excel Spreadsheets for Business**  
3 Credit  
Students will learn to create, format, modify, print worksheets, draw objects, and use spreadsheet data in ranges, functions, and charts. In addition, they will learn to apply special or custom formatting, sort and query data from lists; audit worksheets, use macros, templates, multiple workbooks; and import/export data. They will use data base features to extract and filter data, use data analysis, pivot tables, data validation, data map, conditioning formatting and other features. This is a Microsoft Office Specialist (MOUS) Certification preparation course. Prerequisite: College-level reading, writing, and math skills are required.

**PCB 1730C**  
**Human Reproduction and Inheritance**  
3 Credits  
Intended for those not majoring in the biological sciences or in allied health. Focuses on the various aspects of human reproduction. Topics include the male and female reproductive systems, embryology, birth control, sexually transmitted infections and heredity. Combined and integrated with a hands-on laboratory component. A special fee for face-to-face sections will be charged for this course. Prerequisites: College reading, writing and math skills are required.

**PEL 1121**  
**Golf**  
2 Credits  
Teaches the skills of recreational golf. This course may be repeated twice for credit.

**PEL 1321**  
**Volleyball**  
2 Credits  
Teaches the skills and strategies of recreational volleyball.

**PEL 1341**  
**Beginning Tennis**  
2 Credits  
Teaches the skills of recreational tennis on the elementary level. This course may be repeated two times for credit.

**PEL 1621**  
**Basketball**  
2 Credits  
Teaches the skills and strategies of recreational basketball.

**PEM 1101**  
**Fitness and Conditioning**  
2 Credits  
Focuses on applying the basic principles of movement, figure and fitness control, exercise and diet.

**PEM 1121**  
**Beginning Yoga**  
2 Credits  
This course will focus on the forms of yoga training emphasizing flexibility and stress relief. Emphasis will be given to flexibility, breathing and relaxation techniques.

**PEM 1122**  
**Intermediate Yoga**  
2 Credits  
This course is designed to be an extension of PEM 1121. The focus will be on the appreciation of yoga in everyday life. Emphasis will be on performing postures that are more challenging and remaining in the postures for longer. This course may be repeated twice for credit.

**PEM 1131**  
**Weight Training**  
2 Credits  
Presents an overview of weight training, with an emphasis on procedures, safety and theory. Men will focus on high resistance strength producing exercise and women will focus on high repetition, endurance and toning. This course may be repeated twice for credit.

**PEM 1405C**  
**Self-Defense**  
2 Credits  
An activity course designed to provide knowledge of basic self-defense techniques and skills.

**PEM 1954**  
**Intercollegiate Athletics**  
1 Credit  
Limited to students on HCC varsity teams. This course may be repeated four times for credit.

**PEM 2956**  
**Intercollegiate Athletics II**  
1 Credit  
The course is limited to student varsity athletes. The course involves participating in practice sessions, collegiate games and/or matches and study hall hours in accordance with the NJCAA, FCSAA/Suncoast Conference and HCC Athletic Department. Student athletes will gain and improve skills by competing against competition at the collegiate level.

**PEM 2930**  
**Ballroom Dance**  
2 Credits  
This course is intended to be an introduction to ballroom dance for students with little or no previous ballroom dance training. Students will learn the dance steps to the fox trot, cha cha,
waltz, swing, and tango. Participants will experience valuable enrichment as they progress at their own individual pace beginning to intermediate. Each student will receive personal attention and beneficial feedback. Dancers will learn routines to showcase their artistry. This course may be repeated twice for credit.

**PEN 1136C**  
**Open Water Diver**  
2 Credits  
This is an extensive course for training persons in open water recreational diving. Satisfactory completion of this course leads to internationally recognized scuba certification. Students must demonstrate satisfactory swimming ability, physical stamina and emotional stability to instructor at the first lab. Medical certificate may be required.

**PGY 2401C**  
**Photography I**  
3 Credits  
Provides a basic understanding of the technical aspects of black and white photography involving camera operation, exposure control, film processing, print enlarging and finishing. The students will become familiar with photographic materials, as well as artistic composition and design.

**PGY 2404C**  
**Photography II**  
3 Credits  
Presents advanced technical problems introducing the students to various manipulative techniques both in the camera and in the darkroom. The students will deal with refinement of the silver print, toning, hand coloring, collaging, and the production of a cohesive exhibition quality body of work. Prerequisite: PGY 2401C

**PGY 2801C**  
**Digital Photography I**  
3 Credits  
This course is intended to introduce students to the basic concerns in digital photography as a fine art medium, and the computer as a darkroom. Includes digital imaging techniques of scanning, color correction, retouching, composition, content, and more. Hardware, image input and output processes, and software are also discussed. May be repeated once for credit. Prerequisite: PGY 2401C

**PHC 2040**  
**Foundations in Epidemiology**  
3 Credits  
This course explores the basic principles and methods of the epidemiological approach to understanding the distribution and determinants of health and disease and how this knowledge informs public health practice and policy.

**PHC 2100**  
**Introduction to Public Health**  
3 Credits  
This course will serve as an introduction to the study of public health. It will provide students with an overview of various topics pertinent to the discipline. The core principles of public health will be discussed.

**PHC 2321**  
**Environmental Concepts in Public Health**  
3 Credits  
This course introduces students to the major topic areas of environmental health science. It examines the sources, routes, media, and health outcomes associated with biological, chemical and physical agents to the environment. It will cover how these agents affect disease, water and air quality, food safety, and land resources in community and occupational settings.

**PHI 1010**  
**Introduction to Philosophy**  
3 Credits  
Introduces the study of our human capacity to reflect consciously and critically on our experience and our routines. It introduces several basic concepts in philosophy such as the idea of being, the nature and criteria of knowledge claims, ethical foundations, free will, the existence of God, and methods of philosophical inquiry with selected applications to practice. Prerequisites: College reading and writing skills are required.

**PHI 1010H**  
**Honors Introduction to Philosophy**  
3 Credits  
Same as PHI 1010 with honors content. Honors Program permission required. Prerequisites: College reading and writing skills are required.

**PHI 1100**  
**Elementary Logic**  
3 Credits  
A study of the principles of reasoning involving the detection of fallacies, analysis and criticism of arguments and concepts of formal proof. Prerequisites: College reading and writing skills are required.

**PHI 1600**  
**Ethics**  
3 Credits  
Covers several major ethical theories in philosophy and their applications, including contemporary issues. Prerequisites: College reading and writing skills are required.
PHI 1600H
Honors Ethics
3 Credits
Same as PHI 1600 with honors content. Honors Program permission required.
Prerequisites: College reading and writing skills are required.

PHI 2635
Biomedical Ethics
3 Credits
A philosophical investigation and analysis of ethical issues that arise in the medical, nursing, and allied health professions, as well as in the biological and behavioral sciences. Topics may include reproductive ethics, the ethics of assisted death, research ethics, disability ethics, scarce medical resource allocation, biotechnology ethics, clinical ethics, and public health ethics. College level reading and writing skills are required.

PHY 1020C
Conceptual Physics
3 Credits
This course is a general education course for non-science majors. The course emphasizes conceptual understanding of physics through real-life applications and laboratory experiments and is designed as an introductory survey of physics. The use of mathematics is kept to a minimum. Topics include mechanics, properties of matter, heat, sound, electricity, magnetism and light. A special fee for face-to-face sections will be charged for this course. Prerequisites: College level reading, writing and math skills are required.

PHY 1025
Fundamentals of Physics
3 Credits
Emphasizes the conceptual principles of physics. Topics include mechanics, energy, momentum, gravitation, properties of matter, heat, waves, sound, electricity, and magnetism. Designed for students without the physics background needed for General Physics or other science courses.
Prerequisites: College level reading, writing and math skills are required.
Co-requisite: PHY 1025L, MAC 1105.

PHY 2048
General Physics with Calculus I
4 Credits
First semester of a two semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity and magnetism, selected topics from modern physics) and laboratory for physics majors.
and engineering students.
Prerequisite: MAC 2311 and either PHY 1025 or passing score on physics exemption test.
Co-requisite: PHY 2048L

**PHY 2048L**
General Physics with Calculus I Laboratory
1 Credit
A special fee for face-to-face sections will be charged for this course. Prerequisites: College level reading, writing and math skills are required.
Co-requisite: PHY 2048

**PHY 2049**
General Physics with Calculus II
4 Credits
Second semester of general physics and laboratory for physics majors and engineering students.
Prerequisites: MAC 2312, PHY 2048, PHY 2048L
Co-requisite: PHY 2049L

**PHY 2049L**
General Physics with Calculus II Laboratory
1 Credit
A special fee for face-to-face sections will be charged for this course. Prerequisites: MAC 2312, PHY 2048, PHY 2048L
Co-requisite: PHY 2049

**PHY 2053**
General Physics I
3 Credits
Focuses on the fundamental concepts of natural physical laws as they apply to mechanics and thermodynamics. Topics include kinematics and dynamics, energy and momentum, properties of matter, rotational motion of rigid bodies, vibration motion, kinetic theory and thermal physics.
Prerequisites: PHY 1025 or passing score on physics exemption test and either MAC 1114 or MAC 1147.
Co-requisite: PHY 2053L

**PHY 2053L**
General Physics I Laboratory
1 Credit
Students are provided with physical experiments to enable them to strengthen understanding developed in PHY 2053. Students will perform experiments, record data, perform assigned calculations, and interpret results in terms of the principles and concepts developed in PHY 2053. A special fee for face-to-face sections will be charged for this course.
Prerequisites: PHY 1025L. College level reading, writing and math skills are required.
Co-requisite: PHY 2053

**PHY 2054**
General Physics II
3 Credits
Focuses on the fundamental concepts of natural physical laws as they apply to electricity, magnetism, electromagnetic radiation, optics, relativity, atomic and nuclear physics.
Prerequisites: PHY 2053, PHY 2053L
Co-requisite: PHY 2054L

**PHY 2054L**
General Physics II Laboratory
1 Credit
Students are provided with physical experiments to enable them to strengthen understanding developed in PHY 2054. Students will perform experiments, record data, perform assigned calculations, and interpret results in terms of the principles and concepts developed in PHY 2054. A special fee for face-to-face sections will be charged for this course.
Prerequisites: PHY 2053, PHY 2053L
Co-requisite: PHY 2054

**PHY 2910L**
Directed Research
1 Credit
Training in methods of research. Projects are carried out by one or more students under the supervision of an instructor. This course is intended to help students acquire skills in applying research principles and obtaining practice in rigorous data collection and reporting. Students who wish to perform research on more than one topic may enroll in the course more than once, but only once per semester.
Prerequisites: PHY 2053, 2053L or PHY 2048, 2048L

**PLA 1003**
Introduction to the Paralegal Profession
3 Credits
Provides an overview of the training and purpose of paralegals. Examines the role of the lawyer and legal assistant in modern society and ethical and professional practice standards.
Prerequisite: College level reading and writing skills are required.

**PLA 1104**
Writing and Research I
3 Credits
Provides an in-depth exploration of the law library, legal research and writing legal memoranda.

**PLA 1203**
Litigation Procedures I
3 Credits
Covers the Florida Rules of Civil Procedures, Criminal and Appellate Procedures and related matters.

**PLA 1271**
Tort Law
3 Credits
This course provides a general perspective of areas of law relating to persons and property through civil law. Topics that may be included are Intentional Torts, Negligence, Product Liability, Defamation and other relevant civil law areas.
PLA 1433  
**Business Organizations**  
3 Credits  
Covers procedural information and basic law as it applies to corporations, partnerships and other business vehicles.

PLA 1600  
**Administration of Wills, Trusts and Probate**  
3 Credits  
Presents a survey of estate planning and administration including the preparation of wills, trusts, probate forms and guardianship procedures.

PLA 1611  
**Real Estate Law and Property Transactions I**  
3 Credits  
Covers common real estate transactions and drafting documents such as deeds, leases and contracts.

PLA 1700  
**Legal Ethics and Professional Responsibility**  
3 Credits  
Introduces the student to the types of ethical situations and dilemmas they may encounter in the legal workforce. Students will learn applicable disciplinary rules for both the lawyer and the paralegal, in order to understand how to function responsibly as a legal professional. The content and course work is geared not only to the paralegal student, but also to the practicing paralegal and other legal professionals.

PLA 1949  
**Paralegal Internship**  
3 Credits  
The internship program augments the paralegal curriculum by placing the student in a legal work environment under the supervision of an attorney. It provides the student with the opportunity to gain practical experience as a paralegal in a private law firm, governmental agency or corporation. Prerequisite: Program manager permission required.

PLA 2114  
**Writing and Research II**  
3 Credits  
An advanced course in legal writing and research. Prerequisite: PLA 1104

PLA 2223  
**Litigation Procedures II**  
3 Credits  
Covers advanced litigation procedures law to including interviewing techniques, preparing and organizing courtroom materials, compiling documentary evidence, applying investigative procedures and taking effective courtroom notes. Prerequisite: PLA 1203

PLA 2303  
**Criminal Litigation**  
3 Credits  
This course provides students with a survey of the criminal justice system. Substantive and procedural aspects of criminal law are studied. Course content includes the nature of different crimes, and the penalties involved. Also covered are the pre-trial procedures, the discovery process, the plea bargaining process, and the problems involved in the conduct of trial proceedings.

PLA 2421  
**Contract Law**  
3 Credits  
Covers the basic principles of contract law including both common law contract concepts and uniform commercial code concepts when applicable.

PLA 2460  
**Bankruptcy Law**  
3 Credits  
Examines the principles and procedures for filing bankruptcy and reorganizations, including the preparation of forms.

PLA 2531  
**Elder Law**  
3 Credits  
Covers the various aspects of law that have particular applications to the elderly client. The course is designed to familiarize the student with the practical and theoretical aspects of elder law. Prerequisites: College level reading and writing skills are required.

PLA 2612  
**Real Estate Law and Property Transactions II**  
3 Credits  
Advanced training in common real estate transactions and the preparation of documents such as deeds and leases. Prerequisite: PLA 1611

PLA 2732  
**Law Office Computer Applications**  
3 Credits  
This course introduces the student to the law office work environment and is designed to provide the student with an introduction to the different administrative functions that are most commonly used in a law office. Using the computer and various applications software, the student will learn to perform various legal related business tasks commonly used on the job. The student will prepare many of the common legal office documents. Methods of records management, basic computer file management, scheduling and other administrative duties will be explored. Ethical issues associated with computers and information systems will be explored, as will the importance of the procedures used in the legal office to protect attorney/client confidentiality. Students should have basic computer application skills before taking this course. Prerequisite: CGS 1000
PLA 2763
Law Office Management
3 Credits
Covers managerial responsibility, effective planning and use of financial resources.

PLA 2800
Family Law
3 Credits
Covers such topics as marriage dissolution, separation, custody, legitimacy, adoption, change of name, guardianship, support, court procedures and separation agreements.

PLA 2822
Sports and Entertainment Law
3 Credits
The purpose of this course is to introduce students to a range of legal issues found in the sports and entertainment industries within the United States.

PLA 2841
Immigration Law
3 Credits
This course provides an in-depth study of immigration law. Topics covered include a historical overview of immigration law, types of immigration law practices, relevant immigration agencies, forms, and document drafting. It also covers The Immigration and Naturalization Act, and the administrative system.

PLA 2932
Special Topics in Legal Assisting
1 Credit
This is a one-credit special topics course that will have different topics involving current legal issues that are relevant today. Students can take this course multiple times; however, only the first one-credit class taken counts toward the AS degree in Paralegal Studies.

PLA 2933
Seminar in Legal Assisting Studies
3 Credits
This is seminar course that will have different topics involving legal issues that are currently relevant to the paralegal profession.

PMT 1250C
Computer Numerical Control (CNC) I
3 Credits
This course teaches the development of CNC machine programming methods, blueprint reading, gauging, statistical process control (SPC), and set-up and operation of drilling, milling, and turning. College level reading, writing, and math skills are required.

PMT 2254C
Computer Numerical Control (CNC) II
3 Credits
Topics covered include tool and fixture offsets, plus outside programming from CAD/CAM software. Students will operate CNC machines in the advanced manufacturing lab. Students will perform complete part fabrication from the beginning stage, write an M & G code program, verify the toolpath and then operate the CNC machine to complete fabrication. College level reading, writing, and math skills are required. Prerequisite: PMT 1250C

POS 1001
Introduction Political Science
3 Credits
Covers the basic concepts and theories of government and politics. Prerequisites: College level reading and writing skills are required.

POS 2041
American Government
3 Credits
Covers the structure and function of the American government, the dynamics of political change and contemporary issues. Prerequisites: College level reading and writing skills are required.

POS 2112
State and Local Government
3 Credits
Covers the mechanics of state and local governments, public participation and current political issues. Topics include the role of the governor, cabinet, legislature, courts, interest groups, voters and political parties.

PSC 1515
Energy and the Environment
3 Credits
Focuses on the basic scientific principles related to energy and their application to society. Topics include fossil fuel resources, environmental impact of energy usage, energy conversions, electricity, resource depletion, alternative forms of energy and energy conservation; intended for non-science majors. Prerequisites: College level reading, writing and math skills are required. Co-requisite: PSC 1515L

PSC 1515L
Energy and the Environment Laboratory
1 Credit
Accompanies PSC 1515. Topics include an understanding of solar energy, nuclear energy, fossil fuels and electricity, through exercises and experiments. Addresses computer applications to energy problems. A special fee for face-to-face sections will be charged for this course. Prerequisites: College level reading, writing and math skills are required. Co-requisite: PSC 1515
PSY 2012
General Psychology
3 Credits
This course presents a survey of the field of modern scientific psychology. Topics include, but are not limited to biological aspects of behavior, lifespan development, sensation and perception, learning, memory, cognition, psychological disorders and therapy, and theories and methods used in psychological research.
Prerequisites: College level reading and writing skills are required.

PSY 2012H
Honors General Psychology
3 Credits
Same as PSY 2012 with honors content. Honors Program permission required.
Prerequisites: College level reading and writing skills are required.

PSY 2933
Selected Topics in Psychology
3 Credits
Focuses on an in-depth coverage of specialized aspects of psychology not covered in introductory courses. The course content varies according to the interests of the students and faculty. This course may be repeated once for credit. College level reading and writing skills are required.
Prerequisite: PSY 2012.

PUR 2003
Introduction to Public Relations
3 Credits
The underlying theory and professional practice of public relations within corporate and institutional structures and its vital role in society; ethical standards of practice; relationships of the practice to the public media; and public relations problem-solving process.
Prerequisite: MMC 2000

RAT 1614
Radiation Therapy and Physics I
2 Credits
Provides the students with the fundamentals of physics and its importance to the field of Radiography in general and Radiation Therapy specifically. A review of mathematics as applied to radiology and radiation therapy is completed. Fundamentals principles, concepts and terminology are discussed.

RAT 1618
Radiation Therapy and Physics II
2 Credits
Provides the students with the fundamentals of physics and its importance to the field of radiography in general and radiation therapy specifically. A review of mathematics as applied to radiology and radiation therapy is completed. Fundamentals principles, concepts and terminology are discussed.
Prerequisite: RAT 1614

RAT 1691L
Introduction to Clinical Concepts
1 Credits
This course content is designed to provide students with an overview of clinical skills and concepts necessary to be successful in a radiation therapy clinical setting. Labs will give students the ability to practice clinical skills in an academically challenging atmosphere where critical thinking and problem solving are vital.
Prerequisites: Admission to the Radiation Therapy program. College level reading, writing, and math skills are required.

RAT 1800
Introduction to Radiation Therapy Clinic I
1 Credit
Clinical experience designed to allow the students to apply knowledge gained in the classroom and lab to the clinical situation. Clinical will enable the students to understand and relate the role of all medical imaging working as a team in the diagnosis and treatment of malignant process. The students will clinically utilize those lab skills learned related to monitoring equipment (IVs, catheters, chest tubes, wheelchairs, stretchers, etc.) and patient contact. Students will also become familiar with the radiation therapy simulator and utilization of such.
Prerequisites: HSC 1220.
Additional Prerequisite: Admission to the Radiation Therapy or Radiation Therapy Specialist programs.

RAT 1810
Introduction to Radiation Therapy Clinic II
2 Credits
The clinical experience is designed to give the student the ability to apply the knowledge gained in the classroom and lab in the practical experience. Students will work directly with radiation therapists and patients applying radiation therapy treatments.

RAT 2001C
Introduction to Radiation Therapy
2 Credits
Designed to instruct the students in patient care, medical terminology and an introduction to the radiation therapy department and profession. Includes self-directed medical terminology section.
Prerequisite: Admission to the Radiation Therapy program.

RAT 2021
Radiation Therapy Treatment Planning
3 Credits
Factors involved in the development of a treatment plan are explained and what measurements are reviewed for each anatomical site that is routinely treated with external beam irradiation. Time, dose fractionation schedules are given for all sites with variations (hyper-fractionation and accelerated fractionation) are discussed. Tissue radio-sensitivity as related to side effects are given as well as other modifiers of radio-sensitivity.
Prerequisites: RAT 2001C, RAT 2621
Co-requisite: RAT 2902L
RAT 2023  
**Principles and Practices in Radiation Therapy I**  
3 Credits  
Content designed to provide an overview of cancer and the specialty of radiation therapy. The medical, biological and pathological aspect as well as the fundamentals of oncology including the terminology, behaviors of malignant disease, and review of the cell and the cell cycle.

RAT 2061  
**Radiation Therapy Seminar**  
2 Credits  
Provides the students with the opportunity to evaluate their cumulative retention of the radiation therapy curriculum content. Some areas may be identified as areas that require more reinforcement and study.

RAT 2242  
**Principles and Practices in Radiation Therapy II**  
3 Credits  
Provides the students with content designed to examine and evaluate the management of malignant conditions, etiology, epidemiology, diagnosis, staging/grading, regional spread, lymphatic involvement and the treatment methods utilized in the management and treatment of the disease. The radiation therapist responsibility in patient care, prognosis, treatment results and the effect of using combined modalities will be presented. Various treatment methods and technical components or treatment will be integrated with the histological types of disease and the area of the body in which they occur will be linked to the skills required to analyze complex issues.

RAT 2303  
**Psychosocial Aspects in Oncology**  
2 Credits  
Describes the effects of cancer and its treatments on patients, family and medical staff. It will examine the behavioral and psychological components of cancer, including its effects on psychological, social and physical functions. Participants will explore their own responses to cancer and their patients. Participants will learn how their role as medical professional interacts with other health care professionals as part of a multi-disciplinary team member. Coping strategies and typical crisis points for patients and families will be discussed. Included in this will be managing the consequences of treatment and receiving a terminal prognosis.  
Prerequisite: ENC 1101

RAT 2619L  
**Computer Applications in Treatment Planning**  
2 Credits  
Provides the students with the development of treatment plans utilizing radiation therapy treatment planning computers. All parameters of the plan are explained including isocenter, multiple fields’ utilization, tumor normalization minimization methods.  
Prerequisites: RAT 2021, college level reading, writing and math skills are required.

RAT 2620  
**Radiation Therapy Physics III**  
3 Credits  
Provides the student with the fundamentals of the physics involved with radiation protection, practical applications of dose calculations, the physics involved in generating isodose distributions and factors that influence dose distributions, the structure of matter, nuclear transformations, production of X-rays and clinical radiation generators. A review of mathematics as applied to radiology and radiation therapy will be included.  
Prerequisite: RAT 1618

RAT 2621C  
**Radiation Therapy Physics IV**  
3 Credits  
Provides the students with the fundamentals of the physics involved with radiation protection, nuclear transformation and the interaction of radiation with matter. The measurement of ionizing radiation, the quality of radiation, measurement and calculations of absorbed doses will be covered. Integration of individual practical experiences in radiation therapy measurements and calculation of radiation doses. Students will perform data collection and analysis using radiation detection devices including ionization chambers, diodes, use of film densitometry and the various methods of dose measurements and clinical application of dose and beam data. Beam data collection, quality assurance and radiation safety labs will be integrated with didactic portion of the class.

RAT 2804  
**Radiation Therapy Clinical I**  
3 Credits  
The clinical experience is designed to allow the students to apply the knowledge gained in the classroom and laboratory toward developing the skills necessary to accurately treat and simulate the patient. Students must successfully complete the required competencies to obtain proficiency. Successful completion of all clinical courses demonstrates competence in the field of radiation therapy at the entry level position.  
Prerequisite: RAT 1810

RAT 2814  
**Radiation Therapy Clinical II**  
3 Credits  
The clinical experience is designed to allow the students to apply the knowledge gained in the classroom towards developing the skills and understanding necessary to accurately apply ionizing radiations for the treatment of malignant neoplasms.  
Prerequisite: RAT 2804  
Co-requisite: RAT 2901L

RAT 2824  
**Radiation Therapy Clinical III**  
3 Credits  
The clinical experience is designed to allow the students to apply the knowledge gained in the classroom toward developing the skills and understanding necessary to accurately apply ion-
izing radiations for the treatment of malignant neoplasms. Students will refine that behavior which demonstrates competence in the field of radiation therapy at the level of job entry radiation therapists.

Prerequisite: RAT 2814

RAT 2901
Simulation Lecture I
1 Credit
Provides the student with the knowledge of simulation in preparation for the practical application in the simulation lab. All parameters of simulation and CT simulation of the virtual patient from simple to intermediate complexity will be discussed. Simulation parameters such as TAD/TSD, field size, custom shielding, tumor dose, critical structure and field arrangement will be discussed. Content in sectional anatomy and CT will be discussed.

Co-requisite: RAT 2901L

RAT 2901L
Simulation Laboratory I
1 Credit
The simulation lab is designed to give the students individual hands on experience with a radiation therapy simulator and a general knowledge of the typical treatment methods for the types of cancers treated with external beam radiation therapy. Each student will use the simulator to perform simulated treatment areas on an anthropomorphic phantom, "Pixie." Each treatment area is reviewed in the simulation lecture to include the treatment technique, field arrangement, treatment parameters, dose prescription, and adjacent critical normal tissues with their tolerance doses and side effects.

Prerequisite: Admission to the Radiation Therapy and Radiation Therapy Specialist programs.

Co-requisite: RAT 2901

RAT 2902
Simulation Lecture II
1 Credit
Content is designed to provide the student with the knowledge of simulation in preparation for the practical application in the simulation lab. All parameters of simulation including CT simulation of the virtual patient utilizing complex situations which required advanced thinking skills.

Co-requisite: RAT 2902L

RAT 2902L
Simulation Laboratory II
1 Credit
The simulation laboratory is designed to give the students individual hands on experience with a radiation therapy simulator. Each student will use the simulator to perform simulated treatment areas on a phantom. Each treatment area is reviewed to include the techniques, treatment borders, dose prescription, adjacent normal structures and their tolerance doses and treatment side effects.

Prerequisite: RAT 2901L

REA 0018
Developmental Reading
2 Credits
This course combines the skills of REA0007 and REA 0017 in a co-requisite format. Topics develop vocabulary and critical thinking through three levels of comprehension: literal, inferential, and applied. This course will be paired with a general education course to enhance the skill level necessary for success in general education coursework. It does not satisfy general education requirements and generates compensatory credit only.

Co-requisite: Any general education course

REA 0019
Developmental Reading
4 Credits
This course is a preparatory course meant to prepare students for college level reading and to enhance skills that are taught in writing courses. This course does not satisfy general education requirements and generates compensatory credit only.

REA 0055
Developmental Reading Module I
1 Credit
This course combines the skills of REA 0007 and REA 0017 in modular format. Topics develop vocabulary and critical thinking through three levels of comprehension: literal, inferential, and applied. Students will take a diagnostic test to identify skills that have not been mastered and to determine placement into the appropriate module. Module 1 addresses topic, stated main ideas, implied main ideas, supporting details, and vocabulary in context. This course does not satisfy General Education requirements and generates compensatory credit only.

REA 0057
Developmental Reading Module II
1 Credit
This course combines the skills of REA 0007 and REA 0017 in modular format. Topics develop vocabulary and critical thinking through three levels of comprehension: literal, inferential, and applied. Students will take a diagnostic test to identify skills that have not been mastered and to determine placement into the appropriate module. Module 2 addresses relationships, patterns of organization, transitions, purpose, tone, and vocabulary in context. This course does not satisfy General Education requirements and generates compensatory credit only.

REA 0058
Developmental Reading Module III
1 Credit
This course combines the skills of REA 0007 and REA 0017 in modular format. Topics develop vocabulary and critical thinking through three levels of comprehension: literal, inferential, and applied. Students take a diagnostic test to identify skills
that have not been mastered and to determine placement into the appropriate module. Module 3 addresses inferences, argument, critical thinking skills including fact/opinion and bias, and vocabulary in context. This course does not satisfy General Education requirement and generates compensatory credit only.

REA 1105
Critical Reading Techniques
3 Credits
This course is designed to develop efficient reading skills for purposeful application. Emphasis is on development of vocabulary, comprehension, reading techniques, and critical analysis of text. Instruction is presented through a lecture-participation approach.
Prerequisites: REA 0017, or REA 0018, or REA 0019, or REA 0055, REA 0057, REA 0058, or exemption from preparatory reading, or appropriate placement test score

REA 1605
College Study Skills
2 Credits
This course prepares students for successful college careers through the development of efficient study skills, critical reading and thinking skills, effective test taking and effective management of test anxiety. It introduces students to college culture and the college environment and provides students with the opportunity to explore academic and career goals.

REA 2505
Vocabulary Improvement
3 Credits
Focuses on improving vocabulary through contextual practice and word usage. Topics include word analysis, context clues, affixes, specialized vocabularies, connotation/denotation and analogies.

REL 1210
Old Testament Survey
3 Credits
A study of the history and writings of the Hebrew people through a review of the background, purpose and setting of books in the Old Testament.
Prerequisites: College level reading and writing skills are required.

REL 1240
New Testament Survey
3 Credits
A study of the background of the New Testament, the life and teachings of Jesus, the expansion of Christianity by early missionaries and an overview of the major Christian teachings.
Prerequisites: College level reading and writing skills are required.

REL 2300
Introduction to Religion
3 Credits
An introductory course which explores such topics as the nature of religion, features shared in world religions, differences among world religions, the relationship between belief and behavior, and methods and problems associated with classifying and studying religion.
Prerequisites: College level reading and writing skills are required.

RET 1024
Introduction to Respiratory Care
4 Credits
This course provides an introduction to the Respiratory Care profession. The course work includes basic cardiopulmonary anatomy and physiology, patient assessment skills, infection control and basic respiratory therapy procedures.
Prerequisite: Admission into Respiratory Care Programs.
Corequisite: RET 1024L, RET 1350, RET 1485.

RET 1024L
Introduction to Respiratory Care Laboratory
1 Credit
Laboratory component for RET 1024. Hands-on learning with associated respiratory devices: nasal cannulas, oxygen masks, flowmeters, oxygen tanks, cough assist, CPT vest, IPV, SVN, IPPB, medications, professionalism, and safety procedures at hospitals.
Corequisite: RET 1024

RET 1274C
Basic Respiratory Care
6 Credits
Provides instruction of advanced cardiopulmonary anatomy and physiology. Course work includes basic theory of respiratory care procedures including airway care and arterial blood gas puncture and analysis. The lab portion of the course allows for hands on instruction in a controlled setting to acquire skills prior to performance in a clinical setting.

RET 1350
Pharmacology for Respiratory Care
3 Credits
Provides a comprehensive understanding of the pharmacologic agents used in the practice of respiratory care and provides a fundamental understanding of other drugs used in anesthesia and critical care which involve the cardiopulmonary system.

RET 1485
Cardiopulmonary Anatomy and Physiology
3 Credits
This is a course covering all aspects of normal cardiopulmonary physiology, and the effects of related systems. Topics include respiratory anatomy, mechanics of breathing, arterial blood gases, pulmonary ventilation/perfusion relationships, gas transport mechanisms of blood, neurologic control of ventilation, cardiac and renal function, and respiratory adjustments in health and disease.
Prerequisite: Admission into Respiratory Care Program.
Co-requisites: RET 1024, RET 1024L, RET 1350.
RET 1503  
Cardiopulmonary Pathophysiology  
3 Credits  
Provides a study of the causes, characteristics and treatments of the most commonly encountered cardiopulmonary diseases. Prerequisites: College level reading writing and math skills are required.

RET 1832  
Respiratory Care Clinic I  
2 Credits  
Provides the student with an opportunity to perform basic respiratory care procedures in the clinical setting. Prerequisites: College level reading writing and math skills are required.

RET 1833  
Respiratory Care Clinic II  
1 Credit  
Provides an introduction to the practice of respiratory care in the intensive care environment. Advanced patient care skills are emphasized. The skills included are life support, physiologic monitoring, mechanical ventilation and communication skills. Prerequisites: College level reading writing and math skills are required.

RET 2264C  
Principles Mechanical Ventilation  
5 Credits  
Instruction of the basic theory of mechanical ventilation including indications for artificial ventilation, classification of ventilators and monitoring patients on a ventilator. Provides hands-on laboratory experience with different ventilators to prepare the student for clinical practice.

RET 2283  
Respiratory Intensive Care  
3 Credits  
Focuses on theory and application of respiratory care in the critical care unit. Coursework includes ventilator management, ECG interpretation and advanced assessment techniques.

RET 2413C  
Pulmonary Diagnostics  
2 Credits  
A focus on respiratory care theory and application in pulmonary function testing and interpretation. The course includes testing for volumes and ventilation, pulmonary distribution and diffusion, exercise physiology, cardiovascular stress testing and equipment maintenance. Lab will include performing pulmonary functions and interpretation of results.

RET 2533C  
Advanced Respiratory Care  
8 Credits  
The coursework focuses on areas to prepare students for the last term prior to graduation. Areas will include new areas as well as content areas that are important and/or have been determined to be weak in the present cohort’s understanding. This includes but is not limited to: New Areas - Medical reimbursement, ethics and administration, home care and rehabilitation of the cardiopulmonary patient, chest tubes, and clinical laboratory tests (homological). Review Areas – Cardiac and hemodynamic monitoring, renal physiology, sleep apnea, ABG’s & patient management, mechanical ventilation. Students will be certified in AHA Advanced Cardiac Life Support during the lab portion of this course.

RET 2714C  
Pediatric and Neonatal Respiratory Care  
3 Credits
Focuses on fetal development, neonatal and pediatric patient; assessment, treatment of cardiopulmonary disorders, mechanical ventilation, and homecare. Lab will be included for skills practice prior to clinical practice.

**RET 2834**  
Respiratory Care Clinic III  
2 Credits  
Continuation of advanced respiratory care practice in the intensive care environment. Advanced patient care skills are emphasized. The skills included are life support, physiologic monitoring, mechanical ventilation and communications skills. Rotations through specialty areas such as pediatrics, neonatal, pulmonary function, management and arterial blood gas lab will also be included.

**RET 2835**  
Respiratory Care Clinic IV  
2 Credits  
Continuation of advanced respiratory care practice in the intensive care environment. Advanced patient care skills are emphasized. The skills included are life support, physiologic monitoring mechanical ventilation and communication skills. Rotations through specialty areas such as pediatrics, neonatal, pulmonary function, management and arterial blood gas lab will also be included.

Prerequisites: College level reading writing and math skills are required.

**RET 2836**  
Respiratory Care Clinic V  
1 Credit  
Continuation of advanced respiratory care practice in the intensive care environment. Advanced patient care skills are emphasized. The skills included are life support, physiologic monitoring, mechanical ventilation and communication skills. Rotation will include a complete evaluation of afferent, cognitive, and motor skills.  
Prerequisites: RET 1832, RET 1833, RET 2834, RET 2835

**RTE 1000**  
Introduction to Radiography  
1.5 Credits  
Covers all aspects of radiographic image production from the x-ray tube to the image receptor with emphasis on basic radiation protection practices. Radiographic formulae are introduced and fundamental concepts of radiation interactions are addressed.  
Co-requisite: HSC 1220

**RTE 1000H**  
Introduction to Radiography Patient Care  
1.5 Credits  
Designed to introduce the first year Radiography students to basic medical terminology/medical abbreviations, patient care procedures and general body mechanics needed for effective patient transfers (wheelchair/stretchers). Emphasis is placed on the importance of obtaining accurate patient information and the necessary required confidentiality as expressed in the Patient’s Bill of Rights.  
Co-requisites: RTE 1000, HSC 1220

**RTE 1111**  
Medical Imaging of the Human Structure  
3 Credits  
Focuses on examining the body through medical imaging, with an emphasis on nuclear medicine, sonography, radiography, thermography and the applications of radiation therapy.  
Prerequisites: RAT 1614, RAT 2001C.

**RTE 1157**  
Radiation Protection and Safety  
2 Credits  
Focuses on radiation safety/protection practices for both patients and personnel. Laboratory exercises are included in this course.  
Prerequisite: Admission to the Radiography program, RTE 1000.

**RTE 1308**  
Principles of Radiographic Exposure I  
3 Credits  
Covers the principles of radiographic exposure to include prime factors, radiographic quality, latent image formation, intensifying screens, tube rating charts and radiographic accessory devices. Admission to Radiography program required  
Prerequisites: RTE 1000, RTE 1607  
Co-requisite: RTE 1418L

**RTE 1418**  
Principles of Radiographic Exposure II  
1 Credit  
Focuses on darkroom chemistry, processor design and sensitometry used to monitor processor conditions.  
Prerequisites: RTE 1418, RTE 1418L

**RTE 1503**  
Radiographic Positioning I  
3 Credits
Focuses on proper positioning for various projections of the chest, abdomen and skeletal system.
Prerequisite: Admission to the Radiography program.
Co-requisite: RTE 1503L
RTE 1503L
Radiographic Positioning I Laboratory
1 Credit
Designed to give the students the opportunity to practice positioning skills introduced in the lectures dealing with radiography of the chest, abdomen and skeletal system.
Prerequisite: Admission to the Radiography program.
Co-requisite: RTE 1503

RTE 1513
Radiographic Positioning II
3 Credits
Focuses on radiographic procedures and anatomical identification, with an emphasis on the urinary, biliary and gastrointestinal systems, as well as the vertebral column. Topics include the use, composition and effects of contrast media on the human body.
Prerequisite: RTE 1503
Co-requisite: RTE 1513L

RTE 1513L
Radiographic Positioning II Laboratory
1 Credit
Designed to coincide with the lecture material of RTE 1513. This will give the student an opportunity to practice positioning techniques, which have been covered in RTE 1513. It also enables the student to become more familiar with film evaluation and identification.
Prerequisites: RTE 1503, RTE 1503L
Co-requisite: RTE 1513

RTE 1523
Radiographic Positioning III
3 Credits
Focuses on radiographic procedures and anatomical identification, with an emphasis on the skull and facial bones.
Prerequisites: RTE 1513, RTE 1513L
Co-requisite: RTE 1523L

RTE 1523L
Radiographic Positioning III Laboratory
1 Credit
Provides experience in positioning the skull phantom to demonstrate various projections of the skull and facial bones.
Prerequisites: Admission to the Radiography program, RTE 1513, RTE 1513L.
Co-requisite: RTE 1523

RTE 1597C
Principles of Computed Tomography I
4 Credits
Introduction to the methodology of computed tomography. Topics include but are not limited to computed tomography physics and instrumentation, quality control, patient care, contrast agents, radiation safety and dosimetry, cross-section anatomy and pathology, and CT procedures.
Prerequisites: Current certification in ARRT (R), (T), (N), or CNMT and FL licensure.

RTE 1607
Radiographic Science Principles
1 Credit
Focuses on the basic natural laws, metric conversions, atomic structure and mathematical formulae.
Prerequisite: Admission to the Radiography Program.

RTE 1613
Radiographic Physics I
3 Credits
Includes the fundamental of electrical and radiation physics and basic principles underlying the operation of x-ray equipment and auxiliary devices.

RTE 1782
Pathology of Medical and Surgical Diseases
3 Credits
Focuses on terminology, the nature of diseases and their effect on tissues and organs. Prerequisite: Admission to the Diagnostic Medical Sonography, Nuclear Medicine Technology, Occupational Therapy Assistant, Radiation Therapy, or Radiography programs.

RTE 1800
Introduction to Radiography Practicum
2 Credits
Designed to introduce the entering first year radiography students to the clinical education settings and associated patient care methodologies.
Prerequisite: Admission to the Radiography program.

RTE 1804
Radiography Practicum I
3 Credits
See the description for RTE 2844.
Prerequisites: Admission to the Radiography program, HSC 1220, RTE 1800

RTE 1805
CT Clinical Education I
3 Credits
Hands-on experience in the clinical setting performing computed tomography procedures under the direct supervision of a CT technologist. Requires completion of a minimum of 50 competencies to be applied towards American Registry of Radiologic Technologists computed tomography eligibility requirements.
Prerequisite: Admission the AS degree Radiography Program

RTE 1814
Radiography Practicum II
3 Credits
See course description for RTE 2844.
Prerequisite: Admission to the Radiography program, RTE 1804.
RTE 1824
Radiography Practicum III
3 Credits
See the description for RTE 2844.
Prerequisite: Admission to the Radiography program, RTE 1814.

RTE 1949
Radiography Internship
3 Credits
A coordinated work study course involving class work and field experience. Objectives determined by the students and teacher coordinator will be used to evaluate the students. Additional prerequisite: Successful completion of one half of all clinical competencies to include all contrast studies and must have earned a grade of "C" on all previous radiology internship sections. Co-op/Independent Study. This course may be taken four times for credit.

RTE 2061
Radiographic Seminar
2 Credits
Provides the students a comprehensive review of all aspects of the Radiography Program.
Prerequisites: Admission to Radiography program, RTE 1613, RTE 2385

RTE 2385
Radiation Biology
3 Credits
Focuses on the interaction of radiation with physiological systems, genetics, radiation injury, and radiation dosimetry with emphasis on the principles of radiation safety.
Prerequisite: Admission to the Nuclear Medicine Technology, Radiation Therapy, Radiation Therapy Specialist, or Radiography programs.

RTE 2473L
Quality Assurance
1 Credit
Covers all aspects of quality assurance. Laboratory exercises are included.
Prerequisite: Admission to the Radiation Therapy, Radiation Therapy Specialist, or Radiography programs

RTE 2563
Special Radiographic Processes
2.5 Credits
Focuses on special radiographic and angiographic procedures with an emphasis on procedural tasks and anatomical structures.
Prerequisites: Admission to the Radiography program, RTE 1523, RTE 1523L.

RTE 2575
MRI Imaging I
3 Credits
This course should provide information on the essential components for MRI (MR) safety concepts, equipment and organizations. To prevent MR incidents, patients and personnel must be properly educated. Also the following sections are covered: MR Safety, Fundamentals of Imaging Science and Healthcare, MR Instrumentation and Imaging, Physical Principles of MRI, MR Parameters, Imaging Options and Quality Assurance, Pharmacology and Drug Administration, Clinical Practice and Patient Management, Computers in Imaging and Medical Informatics.
Prerequisites: College-level reading, writing and math skills required.
Co-requisites: RTE 2760 and RTE 2940

RTE 2576
MRI Imaging II
3 Credits
This course should provide information on the essential components for MRI (MR) safety concepts and equipment. The following is also covered: Fundamentals of Imaging Science and Healthcare, MR Pulse sequences, Image Formation and Image contrast, MR Imaging Procedures, MR Pathology, Ethics and Law in the Imaging Sciences.
Prerequisites: RTE 2575, RTE 2760, and RTE 2940
Co-requisites: RTE 2941

RTE 2596
Principles of Computed Tomography II
4 Credits
Advanced methodology of computed tomography. Topics include but are not limited to computed tomography instrumentation, quality control and assurance, advanced patient care specific to CT, applied radiation safety and dosimetry, cross-sectional anatomy and pathology, CT procedures, data acquisition, image processing and reconstruction, image quality, and medical informatics.
Prerequisites: RTE 1590C, RTE 1805

RTE 2760
MRI Anatomy
3 Credits
This course should serve as a guide to identify and comprehend cross-sectional anatomy in various formats for the imaging professional. The Magnetic Resonance Imaging (MRI) technologist is a vital member in the health care environment. The MRI technologist must recognize anatomy to perform and construct diagnostic imaging examinations to facilitate a diagnosis. Emphasis is placed on the following anatomy: Head and Brain, Neck, Spine, Chest and Mediastinum, Abdomen, Pelvis, and Musculoskeletal-lower and upper extremities.
Prerequisites: College-level reading, writing and math skills required.
Co-requisites: RTE 2755, RTE 2940

RTE 2815
CT Clinical Education II
3 Credits
Hands-on experience in the clinical setting performing computed tomography procedures under the direct supervision of
a CT technologist. Required completion of remaining competencies totaling 125 in accordance with American Registry of Radiologic Technologists computed tomography eligibility requirements.
Prerequisites: RTE 1590C, RTE 1805

**RTE 2834**  
Radiography Practicum IV  
3 Credits  
See the description for RTE 2844.  
Prerequisites: Admission to the Radiography program, RTE 1824.

**RTE 2844**  
Radiography Practicum V  
1.5 Credits  
Focuses on hands on experience in radiographic procedures through clinical rotations designed for radiography students only. Practicums require 24 hours per week. Designed to meet the requirements of the American Registry of Radiologic Technologists. Includes potentially strenuous skills such as lifting and carrying.  
Prerequisite: Admission to the Radiography program, RTE 2834.

**RTE 2940**  
MRI Clinical I  
1 Credits  
This first clinical course provides hands on experience in the clinical setting performing MRI procedures under the direct supervision of a MRI technologist. Requires a minimum of 25 competencies to be applied toward American Registry of Radiologic Technologists MRI eligibility requirements. This one credit clinical course has a total of 105 clock hours and should meet 7 hours per week based on a 15 week semester.  
Prerequisites: College-level reading, writing and math skills required.  
Co-requisites: RTE 2760 and RTE 2575

**RTE 2941**  
MRI Clinical II  
2 Credits  
This second clinical course provides hands on experience in the clinical setting performing MRI procedures under the direct supervision of a MRI technologist. This two credit clinical course has a total of 210 clock hours and should meet 14 hours per week based on a 15 week semester.  
Prerequisite: RTE 2760, RTE 2575, RTE 2576, and RTE 2940  
Co-requisites: RTE 2576

**RTE 2942**  
MRI Clinical III  
3 Credits  
This third clinical course provides hands on experience in the clinical setting performing MRI procedures under the direct supervision of a MRI technologist. This three credit clinical course has a total of 315 clock hours and should meet 21 hours per week based on a 15 weeks semester.
RTV 1530  
**Electronic Field Production**  
3 Credits  
The course will provide an opportunity for students to create a variety of video productions, allowing them to express personal creativity while developing the ability to conceptualize story ideas and effectively translate them into video productions.

RTV 1941  
**Radio and TV Internship I**  
3 Credits  
An opportunity to study and gain experience by working on-the-job with a broadcast film, or multimedia organization. Designed for students enrolled in the Digital Television and Media Production program.  
Prerequisites: RTV 2000, RTV 1530, RTV 2510, RTV 2560

RTV 2000  
**Introduction to Broadcasting**  
3 Credits  
This is an introductory course in principles, tools, and skills involved in the broadcasting field today.

RTV 2460  
**Broadcasting Practicum**  
3 Credits  
A course that allows the student to get hands-on experience in producing actual programming for radio, television or the Internet.  
Prerequisites: RTV 2510, RTV 2000, RTV 2560, RTV 2630, RTV 1530

RTV 2510  
**Broadcasting Techniques**  
3 Credits  
An introduction to multi-camera television studio production with an emphasis on directing. Students will learn to direct a "live" three-camera studio production as well as assume studio crew positions. Students will learn about and act as a technical director, assistant director, lighting director, audio director, floor director, and camera operator.  
Prerequisite: RTV 2000

RTV 2512  
**Advanced TV Studio Production**  
3 Credits  
This course is designed to provide students with more practical experience in producing live and live-to-tape three-camera television studio productions from pre to post production.  
Prerequisite: RTV 2510

RTV 2532  
**Advanced Electronic Field Production**  
3 Credits  
This course builds on what the student has learned in the beginning electronic field production class. It a very practical approach toward learning the techniques of how to write, produce, direct and edit short form field productions such as the corporate demonstration, short documentary and fictional short.  
Prerequisite: RTV 1530

RTV 2560  
**Radio Production and Programming**  
3 Credits  
This course covers the development of announcing and audio production skills for radio and other media. Students will learn to operate a professional audio console and use professional multi-track audio software to produce content for the college radio station. Students will also study radio formats, learn how to analyze radio ratings, program a station, and build a station promotions campaign.

RTV 2630  
**Broadcast News**  
3 Credits  
Designed to increase student employment potential and to maintain job performance in news and documentaries for radio, television, or closed circuit through basic and practical familiarization with the mechanics and procedures of the news room. Adaptation of local and wire copy for audio and film, placement of commercials, approaches to information sources, methods of applying for work are discussed.

RTV 2942  
**Radio and TV Internship II**  
3 Credits  
The second Radio/TV internship allows the student an opportunity to work at another broadcast film, or media production company to gain more on the job practical experience and extend their professional network. Designed for students enrolled in the Digital Television and Media Production program.  
Prerequisite: RTV 1941

RTV 2944  
**Radio and TV Internship III**  
3 Credits  
The final Radio/TV internship experience is designed to provide the Digital Television and Media Production student with an opportunity to develop entry level competence in the practical skills required for employment as a broadcast director.

SBM 2000  
**Small Business Management**  
3 Credits  
Introduces the fundamentals of small business management, including planning, choosing the types and forms of business, raising capital, using business information, managing employees, and marketing products and services. The course is oriented toward principles needed to operate a small business and is designed for those who may eventually have their own businesses or for those who desire to upgrade their skills in their present businesses. Students will prepare a feasibility study and present a comprehensive small business startup plan. Completion of ENT 1000 strongly recommended.
SCC 1000
Introduction to Security
3 Credits
This course will examine the origins and development of security from medieval England to current times. The concept of security will be covered as a response to and a reflection of society’s structure. This course will cover the various aspects of security to include community, retail, corporate, business, and industrial problems and concerns as well as the governmental and legal aspects of security. The use of security equipment and loss prevention will also be covered.

SCC 1001
Introduction to Private Investigation
3 Credits
This course will provide students with an overview of the private investigation field. The course will focus on employment opportunities, history, evolution, methods, and management of private investigation, sources of information, investigative technology, and ethical, public policy, and legal considerations related to investigations in the private sector.

SCM 1010
Introduction to Supply Chain Management
3 Credits
This course provides a general overview of Supply Chain Management (SCM) and the associated functions necessary for delivery of goods and services to customers. The course focuses on effective techniques of employees and managers that ensure that an effective supply chain exists in an organization. Students study an overview of SCM functions such as order processing, transportation, warehousing, purchasing and inventory, E-Commerce, information flow, and customer service.
Prerequisite: College level reading, writing and math skills are required.

SCM 2150
Purchasing and Inventory Management
3 Credits
This course provides a comprehensive introduction to the purchasing and supply chain management field. Cases cover purchasing and supply chain issues in a variety of settings, from process industries to high-tech manufacturing and services, and public institutions. The curriculum emphasizes the purchasing process as it relates to such topics as inventory control procedures, price versus cost analyses, laws and ethics, vendor selection, and the development of vendor relationships.
Prerequisite: SCM 1010, College level reading, writing and math skills are required.

SCM 2230
Warehouse Management
3 Credits
This course provides an introduction to practical concepts of warehousing including the types of equipment, storage processes, and systems; the technologies used to identify and track units in a warehouse; and the regulations designed to ensure safety in warehouse operations.

Prerequisite: SCM 1010, College level reading, writing and math skills are required.

SCM 2270
Transportation and Distribution
3 Credits
This course explores the role and importance of transportation in the distribution of goods. The course focuses on the infrastructure of the freight transportation system, modes of transportation, transportation regulations, and public policies. Students study carrier cost structures, operating characteristics, and policy regulations regarding each of the transportation modes.
Prerequisite: College level reading, writing and math skills are required.

SLS 1101
Orientation
1 Credit
An introduction to the campus facilities, student services and college policies and procedures. Provides assistance in planning a two-year program of study and offers guidance in transferring to other educational institutions.

SLS 1106
First Year Experience Orientation
3 Credits
This course emphasizes early academic planning that aligns students’ aptitudes, career interests, and life goals. In addition to the early development of a comprehensive academic life plan, first-time-in-college students will learn about HCC’s support services and how to navigate toward successful completion of courses and programs. Moreover, students will engage with the College community in meaningful ways to help prepare them to realize their academic and career goals. Pedagogical approaches include lecture, faculty-advisor partnership, peer group collaboration, library research, self-exploration, written reflection, oral presentation, experiential learning, and other modalities.

SLS 1261
Personal Skills for Business
3 Credits
Prepares students, business managers, and supervisors to meet the challenges of today’s rapidly changing, technological world by helping them examine and perfect the personal skills required for an understanding of self and others on the job. Provides students with the skills necessary to recognize and cope with life’s challenges. Emphasis is placed on making good business decisions goal setting, problem solving, time and stress management, and coping and leadership skills.

SLS 1301
Career Decision Making
3 Credits
Emphasizes the development of decision-making skills needed to make realistic career choices in terms of values, interests, and educational goals, using the facilities of the Career Lab.
SLS 1501  
**College Success**  
3 Credits  
This interdisciplinary course empowers students by preparing them for a successful college experience and providing them with additional opportunities to develop intellectual potential and life skills. It enhances student understanding of library resources, student services, and other areas of academic support. Topics include goal assessment, time management, power reading, creative and critical thinking, test taking, memory, note taking, and communication skills.

SON 1000  
**Basic Sonography**  
3 Credits  
Designed to present the fundamental principles of sonography to the entry level sonography student. The focus of the course will be the role of the sonographer in the health care environment, professionalism and the legal issues facing the health care provider. Students will be introduced to the relevance of sonography in abdominal, obstetrical and gynecologic imaging and basic sonographic physics and instrumentation.  
Prerequisite: BSC 2085  
Co-requisite: SON 1804C

SON 1053  
**Sonographic Imaging of Medical and Surgical Diseases**  
1 Credit  
Students shall review their knowledge base of gross anatomy, scan planes, patient positions and the proper terminology as related to sonographic imaging. This course prepares students for clinical practicum courses by reviewing disease processes as they appear on sonographic images. Students will review videotapes, paper printer images and transparency films, and correlated studies from other imaging modalities demonstrating medical and/or surgical diseases. In addition, students shall review clinical signs and symptoms and related lab tests associated with the disease processes.  
Prerequisite: SON 1000  
Co-requisites: RTE 1782, SON 1311

SON 1100  
**Sonographic Scanning Protocol I**  
1 Credit  
Students shall review their knowledge base of gross anatomy, scan planes, patient positions and the proper terminology as related to sonographic imaging. Designed to prepare students for the proper utilization of abdominal sonographic practicum courses. Quality images and techniques shall be discussed. Students shall be guided in how to adapt protocols to anatomical variations or in the demonstration of pathology. In addition, patient preparation, the application of appropriate measurements and equipment utilization will be discussed.  
Prerequisites: SON 1000, SON 1804C.  
Co-requisite: SON 1840
SON 1101  
Sonographic Scanning Protocol II  
1 Credit  
Students shall review their knowledge base of gross anatomy, scan planes, patient positions and the proper terminology as related to sonographic imaging. This course is designed to prepare students for the proper utilization of small parts, obstetrical, gynecology and vascular sonographic protocols during clinical practicum courses. Quality images and techniques shall be discussed. Students shall be guided in how to adapt protocols to anatomical variations or in the demonstration of pathology. In addition, patient preparation, the application of appropriate measurements and equipment utilization will be discussed.  
Prerequisite: SON 1100  
Co-requisites: SON 1850

SON 1171C  
Introduction to Vascular Technology  
2 Credits  
This course will provide a thorough understanding of the cerebrovascular anatomy, physiology, and pathology. The clinical assessment of patients for cerebrovascular disease will be discussed to include normal and abnormal anatomy. This course will discuss non-invasive and invasive tests for cerebrovascular procedures. Patient factors and patient histories will be described. In addition, this course will provide a thorough understanding of the anatomy, physiology and pathology of the lower extremity venous procedures. The clinical assessment of patients with acute and chronic venous disease will be discussed. A description of non-invasive tests used to evaluate extremity venous vascular examinations will be discussed.  
Prerequisite: SON 1210  
Co-requisite: SON 1850

SON 1210  
Introduction to Sonographic Physics and Instrumentation  
3 Credits  
Designed to expand upon the basic physics and instrumentation concepts that were presented in Basic Sonography. Discussion will include how each component is interrelated and how all components contribute to the production of a sonographic image. Basic sonographic physics will be introduced. Introduction to computers hardware and software. An introductory computer literacy course for the Diagnostic Medical Sonographer student with emphasis on current technology and the implications for and the effects on our society. Topics will include cyberspace; communications, including the impact of the Internet and World Wide Web; ethical, privacy, environmental, and health related issues. Software applications will include a brief introduction to Windows, word processing, spreadsheets, and graphics.  
Prerequisites: SON 1000 or CVT 1000  
Co-requisite: SON 1840 or CVT 2320

SON 1311  
Introduction to Cross Sectional Anatomy I  
1 Credit  
Provides an introduction to sonographic representation of the abdominal/pelvic areas and developing fetus. Topics include scanning planes, patient positions and terminology.

SON 1312  
Introduction to Cross Sectional Anatomy II  
1 Credit  
Designed to introduce the student to the sonographic representation of the female pelvis and the developing fetus. Students shall review their knowledge base of gross anatomy and embryological development. Students will then be introduced to scan planes, patient positions and the proper terminology associated with these concepts. Anatomical and sonographic relationships female pelvis and the developing fetus will be discussed extensively. From this basis, the course is then designed to assist the student in visualizing gross anatomy as it is represented sonographically.  
Prerequisite: SON 1311  
Co-requisite: SON 1840

SON 1313  
Introduction to Cross Sectional Anatomy III  
1 Credit  
Students shall review their knowledge base of these structures. Students will then be introduced to scan planes, patient positions and the proper terminology associated with these concepts. This course is designed to introduce the student to the sonographic representation when imaging small parts, neonatal brains and vascular structures. Anatomical and sonographic relationships of these structures, vessels and organs will be discussed extensively. From this basis, the course is then designed to assist the student in visualizing gross anatomy as it is represented sonographically.  
Prerequisites: SON 1312  
Co-requisites: SON 2814

SON 1804C  
Introduction to Practicum I  
2 Credits  
Introduction to the patient/sonographic role in a simulated environment. Designed to ease the student into the hospital situation by becoming familiar with the role and responsibilities of a sonographer and the basic fundamentals of a career such as darkroom chemistry, medical terminology and machine operations. Students will spend a minimum of 50 minutes per week in lecture and eight clock hours in simulated hospital/clinical experience each week in the on campus laboratory.  
Prerequisite: BSC 2085  
Co-requisite: SON 1000

SON 1840  
Introduction to Practicum II  
1 Credit  
Continues to explore the role of the sonographer in a simulated as well as an actual clinical environment. This course is designed to expose the student to the role and responsibilities of
a clinical sonographer in the hospital situation by allowing observa-
tion of the sonographer in daily hospital routine. The stu-
dent will begin the initial phase of instruction in scanning
protocols. The student will spend eight clock hours a week in
the clinical and/or laboratory setting.
Prerequisites: SON 1804C, SON 1000.
Co-requisite: RTE 1782

SON 1850
Introduction to Practicum III
1 Credit
Provides 8 hours per week of clinical sonographic experience
in various health care settings. Topics include scanning proto-
cols, sonographic equipment, terminology and patient care.
Prerequisite: SON 1840
Co-requisite: SON 1101

SON 2061
Seminar in Sonography
3 Credits
Provides a comprehensive review of all aspects of the sonogra-
phy program to include abdominal, obstetrics, gynecology,
physics and instrumentation, and miscellaneous small parts.
Topics include quality assurance in sonography labs, bio-
effects related to sonography, sonographic artifacts, an intro-
duction to Doppler, an introduction to neurosonography, pedi-
atriac sonography and resume preparation and job hunting.
Prerequisites: SON 2122, SON 2211, SON 2112
Co-requisite: SON 2834

SON 2111
Abdominal Sonography I
3 Credits
Designed to give the student an understanding of the anatomy,
physiology and pathology of the abdominal aorta, pancreas,
biliary system and liver. Emphasis will be placed on so-
ographic features and characteristics of normal anatomy as
well as the various disease processes that affect each organ. Re-
maining course content will integrate clinical procedures, diag-
nostic procedures, etc., common to all and specific to each
organ.
Prerequisite: SON 1312
Co-requisite: SON 2814

SON 2112
Abdominal Sonography II
3 Credits
Designed to give the student an understanding of the anatomy,
physiology and pathology of the liver urogenital system as
well as the adrenal glands, spleen, neonatal brain, thyroid and
breast.
Prerequisite: SON 2111
Co-requisite: SON 2211, SON 2211L

SON 2121
Obstetrics and Gynecology Sonography I
4 Credits
Designed to give the student an understanding of the anatomy,
physiology and pathology of the female pelvis as well as its
normal and abnormal sonographic appearance. Also intro-
duces the student to the first trimester of pregnancy and its re-
lated anatomy, physiology and possible pathology and/or
complications. Embryology, early fetal development, so-
ographic identification and imaging of the embryo and fetus,
trans-abdominal and trans-vaginal scanning techniques will be
covered.
Prerequisite: SON 1311 (waiver by permission of instructor).

SON 2122
Obstetrics and Gynecology Sonography II
3 Credits
Designed to give the student detailed instruction in the role of
sonography in the second and third trimesters of pregnancy.
Fetal development, physiology, all major fetal anomalies, and
maternal complications directly related to the second and third
trimesters of pregnancy will be covered in detail.
Prerequisite: SON 2121
Co-requisites: SON 2211, SON 2211L

SON 2175C
Vascular Technology
3 Credits
This course is a review of physiology and fluid dynamics, and
is designated to give the student an understanding of the anat-
omy, physiology, and pathology of the arterial and the venous
circulatory systems. This course will provide a thorough un-
derstanding of the lower and upper extremity arterial anat-
omy, physiology, and pathology. The clinical assessment of
patients for peripheral vascular disease will be discussed. This
course will discuss Doppler waveform analysis in the lower
and upper extremities. Patient factors and patient histories
will be described. This course will also provide a thorough un-
derstanding of Doppler segmental pressures in the lower and
upper extremities, duplex scanning and color Doppler flow im-
aging of abdominal vessels, description of preoperative map-
ping procedures, Transcranial Doppler (TCD), and statistical
profile and test correlation.
Prerequisite: SON 2211

SON 2211
Sonographic Physics and Instrumentation
3 Credits
Designed to present to the student a detailed explanation of ul-
trasound physics and instrumentation. The theory of physics
principles and their practical applications, basic principles of
instrumentation, and practical applications are presented.
Prerequisite: SON 1210
Co-requisite SON 2211L

SON 2211L
Sonographic Physics and Instrumentation
Laboratory
1 Credit
Designed to parallel the sonographic physics and instrumen-
tation lecture course. The student will apply the concepts and
mathematical calculations in clinical projects and various exer-
cises.
Prerequisite: SON 1210
Co-requisite: SON 2211

SON 2814
Sonographic Clinical Practicum I
3 Credits
Provides on campus instruction in scanning protocols of the abdominal aorta, pancreas and gallbladder. Patient care, the role and duties of the sonographer in the health care environment and instruction in the use of various types of ultrasound equipment will be discussed. Students receive instruction and guidance in producing quality sonographic images and the parameters used to evaluate the images. Affiliate: Student rotation through clinical affiliates provides experience in the performance of ultrasound procedures in dynamic health care environments.
Prerequisites: SON 1850
Co-requisites: SON 2111, SON 2121

SON 2824
Sonographic Clinical Practicum II
3 Credits
Provides on campus instruction in scanning protocols of the abdominal aorta, pancreas and gallbladder. Patient care, the role and duties of the sonographer in the health care environment and instruction in the use of various types of ultrasound equipment will be discussed. Students receive instruction and guidance in producing quality sonographic images and the parameters used to evaluate the images. Affiliate: Student rotation through clinical affiliates provides experience in the performance of ultrasound procedures in dynamic health care environments.
Prerequisite: SON 2814
Co-requisites: SON 2122, SON 2112

SON 2834
Sonographic Clinical Practicum III
3 Credits
Provides on campus instruction in scanning protocols of the thyroid, female pelvis and the total abdomen. This course further expands upon the sonographer's role and responsibilities, and use of ultrasound equipment. The student receives additional instruction in film evaluation and image quality. Off campus: Student rotates through clinical affiliates gaining continued experience and knowledge in the performance of ultrasound procedures.
Prerequisite: SON 2824
Co-requisite: SON 2061

SOP 1740
Feminine Psychology
3 Credits
Focuses on theories of feminine personality using a social psychological approach, with an emphasis on gender differences and roles, family, work and the socialization process.

SPC 1006
Speech Improvement
1 Credit
Focuses on the basic methods of speech presentation and critical listening. For those students that began prior to the fall term 2002 and have had continuous enrollment, this meets the speech component of the general education communication requirements.

SPC 1608
Public Speaking
3 Credits
Focuses on practical methods of speech composition organizational pattern and presentation; addresses the individual needs of students. Meets speech component of the general education communication requirement.
Prerequisites: College level reading and writing skills are required.

SPC 1608H
Honors Public Speaking
3 Credits
Same as SPC 1608 with honors content. Honors Program permission required.

SPC 2300
Interpersonal Communication
3 Credits
Provides students with working definitions, conceptual knowledge and practical examples regarding the development and improving of interpersonal communication skills in personal and professional settings. Topics such as self-disclosure, verbal and non-verbal message sending and receiving, interpersonal and family relationships and conflict are addressed. While not designed to be therapeutic, the course offers practical, real world examples of interpersonal interactions.
Prerequisites: College level reading and writing skills are required.

SPC 2300H
Honors Interpersonal Communications
3 Credits
Same as SPC 2300 with honors content. Honors Program permission required.

SPC 2930H
Honors Selected Topics in Communications
3 Credits
This course provides an in-depth study of topics in communication not covered in other courses. The course will examine various aspects of communication through reading, case studies, participant observations, guided research, and/or field trips. Topics vary from semester to semester. Course may be repeated up to 6 credit hours. Honors Program permission required.

SPN 1120
Elementary Spanish I
4 Credits
Covers the fundamental of reading, writing, listening and speaking the Spanish language while developing an understanding of the Spanish and Hispanic cultures. Native speakers of Spanish will be asked to seek credit by exam.
Prerequisites: College level reading and writing skills are required.

**SPN 1121**  
**Elementary Spanish II**  
4 Credits  
Enhances skills learned in SPN 1120. Native speakers of Spanish will be asked to seek credit by exam.  
Prerequisites: SPN 1120 with a minimum grade of “C” or instructor’s permission. College level reading and writing skills are required.

**SPN 1340**  
**Spanish I for Heritage Speakers**  
4 Credits  
This course is designed for native Spanish speakers who lack knowledge of written and/or formal Spanish. Class is conducted entirely in Spanish with emphasis on the development of spelling, grammar, vocabulary, reading comprehension, writing, and oral skills. Special emphasis will be placed on the specific linguistic needs of Spanish heritage speakers. This course will also cover important aspects of the Hispanic World. College level reading and writing skills are required.

**SPN 1341**  
**Spanish II for Heritage Speakers**  
4 Credits  
This course is a continuation of SPN 1340. It is designed for native Spanish speakers without formal instruction in Spanish. This course will expand upon the skills learned in SPN 1340 by further developing reading and writing skills necessary to understand literary selections, business and technical documents, and journalistic writings. Students will learn to make oral presentations in Spanish for different purposes and for diverse audiences. They will demonstrate knowledge of the usage of regional, dialectical, and colloquial language appropriately, as well as cultural variances of Spanish. College level reading and writing skills are required.

**SPN 2220**  
**Intermediate Spanish I**  
4 Credits  
Designed to help students reach fluency in understanding, speaking, reading, writing, and cross-cultural awareness. Emphasis on written composition and oral presentation as well as values and ideas of the Spanish and Hispanic cultures.  
Prerequisite: SPN 1121 with a minimum grade of “C” or instructor’s permission.

**SPN 2221**  
**Intermediate Spanish II**  
4 Credits  
A continuation of SPN 2220, this course further develops fluency in the basic skills through systematic review. Continued emphasis on cross-cultural awareness as well as exposure to Spanish and Hispanic values and ideas.  
Prerequisite: SPN 2220 with a minimum grade of “C” or instructor’s permission. College level reading and writing skills are required.
STA 2023
Elementary Statistics
3 Credits
This course introduces the student to the concepts of statistical design and data analysis with emphasis on introductory descriptive and inferential statistics. Topics include data organization and analysis, probability, discrete and continuous probability distributions, confidence intervals, hypothesis testing, correlation and simple linear regression.
Prerequisite: MAT 0022, or MAT 0028, or MAT 0029, or MAT 0055 with a grade of ‘S’, or appropriate score on placement test.

STA 2023H
Honors Elementary Statistics
3 Credits
Same as STA 2023 with honors content. Honors Program permission required.
Prerequisite: MAT 0022, or MAT 0028, or MAT 0029, or MAT 0055 with a grade of ‘S’, or appropriate score on placement test.

STS 1300C
Surgical Anatomy and Pathophysiology
4 Credits
This course has been designed to provide general knowledge about the healthy functions of the human body and the structures related to these functions. It is divided into six units of study. Each unit will be taught separately, correlating each system’s contributions to the total function of the body, as a synergistic and unified whole. Instruction will also include anatomical positions, planes of the body, systems of the body and their inter-relationships, body chemistry, and introduction to physics.
Prerequisite: Admission to the Surgical Technology Program

STS 1300L
Surgical Techniques and Procedures Simulation Laboratory
2 Credits
This course is designed to utilize simulation as related to surgical procedures. The simulators are designed to review anatomy and teach surgical procedures while evaluating the student’s ability in reaction times and accuracy as related to anatomy and patient positioning. The simulators also evaluate the accuracy in stabilization of surgical instrumentation.
Prerequisite: HSC 2006
Corequisite: STS 1310L

STS 1310
Surgical Techniques and Procedures
6 Credits
This course is an overview of the profession including surgical skills and terminology related to surgical procedures performed in the operating room. Infection control techniques, aseptic technique and surgical instrumentation are covered in this course. Surgical procedures, patient positioning and surgical hazards are also covered.
Prerequisite: HSC 2006
Corequisite: STS 1310L

STS 1310L
Surgical Techniques and Procedures Simulation Laboratory
2 Credits
This course is designed to utilize simulation as related to surgical procedures. The simulators are designed to review anatomy and teach surgical procedures while evaluating the student’s ability in reaction times and accuracy as related to anatomy and patient positioning. The simulators also evaluate the accuracy in stabilization of surgical instrumentation.
Prerequisite: HSC 2006
Corequisite: STS 2323

STS 1940C
Introduction to Surgery Clinical
2 Credits
This course is an overview of the profession including basic clinical skills and terminology related to the surgical setting. The professionalism, profession organizations, patient confidentiality, infection control, asepsis, and demonstrating aseptic technique are covered in this course.
Prerequisite: HSC 2006L
Corequisite: STA 1310L

STS 2323
Surgical Procedures I
4 Credits
This course is an overview of surgical procedures covering a wide variety of surgical specialties. This course covers some surgical simulation use and mock surgeries. Surgical simulation focuses on instant performance feedback. Anatomy, aseptic technique and surgical instrumentation are covered in the course. Surgical procedures, patient positioning and surgical hazards are also covered.
Prerequisite: STS 1310
Corequisite: STS 2323L

STS 2323L
Surgical Procedures Simulation Laboratory I
1 Credit
This course is an overview of surgical procedures utilizing simulation equipment and laboratory skills. Focusing on the relationship of surgical simulation use (camera management) in a realistic surgical environment. Surgical simulation focuses on instant performance feedback. Anatomy, aseptic technique and surgical instrumentation are covered in this course. Medical terminology, asepsis, and surgical sterile technique are all covered in the disciplinary of this course.
Prerequisite: STS 1310
Corequisite: STS 2323

STS 2324
Surgical Procedures II
4 Credits
This course presents an overview into the surgical environment. Instrumentation and sterilization key components of this course. Demonstrate the use of sterilization process monitors, including temperature and frequency of appropriate chemical indicators and bacterial spore tests for all sterilizers.
Demonstrate the ability to identify and select appropriate instrumentation and equipment that meets the needs of the specialty.
Prerequisite: STS 2323
Corequisite: STS 2324L

STS 2324L
**Surgical Procedures Simulation Laboratory II**
1 Credit
This course is an overview into the surgical setting using simulated surgeries and simulation equipment. By providing instant performance feedback through surgical anatomy simulation the learner gains hands-on experience instantly. This course requires clinical hours and surgical suite experience. General surgery, plastics/burns, E.N.T., genito-urinary, cardiothoracic, gynecological, orthopedic, neuro and ophthalmic surgery are all areas of experience.
Prerequisite: STS 2323L
Corequisite: STS 2324

STS 2365
**Professional Skills for the OR Team**
1 Credit
This course is an overview of the medical professionalism and the mastery of skills, interpersonal skills and communication as related to surgical technology. Present information both formally and informally and the ability to draft, revise, and edit medical presentations. Conducting technical research and gathering formation to make professional presentations based on clinical experience is captured in the disciplinary of this course.

STS 2936
**Surgical Certification Symposium**
2 Credits
This course presents an overview into the surgical technologists certification exam. Preparation and understanding of the basic sciences as related to surgical technology. Correlate the preoperative diagnosis interventions, common complications, and operative pathophysiology relative to specific surgical procedures. Describe the principles of problem solving, ethical decision making and risk management as related to the surgical patient. Provide health care within the ethical/legal framework of the surgical technologists role.
Prerequisite: STS 2944C

STS 2944C
**Surgical Clinical I**
3 Credits
This course is an overview of clinical skills as applied to real time surgery. Students perform in the clinical setting basic surgical skills. Surgical procedural documentation is required. Medical asepsis and aseptic technique are required to be observed and mastered.
Prerequisite: HSC 2006L
Corequisite: STS 2323L
STS 2945C
Surgical Clinical II
3 Credits
This course presents an overview into the clinical experience focusing on aseptic technique and patient safety. Interpersonal skills as related to surgical technology and working within a medical team as needed for patient safety. This course contains all required surgical rotations and hours needed to sit for the National Exam. This course is performed in the clinical setting.
Prerequisite: STS 2944C

STS 2954
Surgical Technologist Portfolio
1 Credits
This course is an overview of the clinical experience. The creation of a professional portfolio is utilized in employability skills. The course captures the required documentation needed to sit for the National Certification exam. Professionalism, documentation and medical experience is captured in this course.
Corequisite: STS 2936

SUR 2000C
Surveying I
3 Credits
This course introduces students to the basic methods of plane surveying, use of field-measurement instruments, field-notes recording, and the development of a site plan for use in building and construction projects.

SYG 2000
Introduction to Sociology
3 Credits
Emphasizes the scientific method in examining society. Topics include group structure, roles, social stratification, socialization, deviance, collective behavior, ethnic diversity and globalization.
Prerequisites: College level reading and writing skills are required.

SYG 2010H
Honors Social Problems
3 Credits
Same as SYG 2010 with honors content. Honors Program permission required.

SYG 2012
Introduction to Globalization
3 Credits
Globalization is an umbrella term that encompasses changes in economies, politics, cultures, technologies and societies. The course will help students understand globalization and adopt a global perspective. Converging global institutions and cultures, and the consequences of global interdependence will be studied. Issues of poverty, food, energy, development and democratization will be assessed. Protests against western corporations and the challenges posed to small businesses and local cultures will be evaluated. The relationship between globalization and inequity, the fate of cultural diversity in a globalizing world, immigration trends, integration and xenophobia will be investigated. Challenges to environment and issues of social justice will also be identified. Finally, resistance movements to globalization that have helped steer it, but not retard it will be analyzed.
Prerequisite: SYG 2000

SYG 2340
Human Sexuality
3 Credits
Examines physical intrapsychic, and interpersonal aspects of sexuality; also anatomical, physiological and emotional aspects of sexuality, love and attraction, sexual communication, adult sexual behavior, childhood sexual behavior, sexual dysfunction and treatments, sexually transmitted diseases, sex and aging, legal aspects of sexual behavior, sexual exploitation, and eroticism in American culture. Presentations will be frank and explicit.

SYG 2430
Marriage and Family
3 Credits
Focuses on marriage and the family, with an emphasis on changing values and structures. Topics include sex roles, love relationships, sexuality, dating, singlehood, parenthood, husband-wife interaction, divorce and remarriage.

SYG 2930
Selected Topics in Sociology
3 Credits
Provides an in-depth study of topics in Sociology not covered in other courses. May be repeated once for credit.
Prerequisite: SYG 2000

SYG 2930H
Honors Selected Topics in Sociology
3 Credits
Same as SYG 2930 with honors content. Honors Program permission required. This course may be repeated once for credit under a different topic.
Prerequisite: SYG 2000

TAR 1170C
B.I.M. I Revit Residential
3 Credits
An introduction to standard architectural drawing types and techniques using Autodesk Revit software. Students will create plans, elevations, sections, and detail drawings while exploring the 3-D and BIM capabilities of Autodesk Revit software on residential-scale projects.
Prerequisite: BCN 1250

TAR 1171C
B.I.M. II Revit Commercial
3 Credits
A second-level course exploring the 3-D and BIM capabilities of Revit software on commercial-scale projects. Topics include content creation, commercial structural systems and architectural visualization.
Prerequisite: TAR 1170C

TAR 1172C
B.I.M. III Revit M.E.P.
3 Credits
An introduction to standard MEP (mechanical, electrical and plumbing) systems using Revit computer software. Course work focuses on the collaborative efforts of architects and engineers in the design of building systems. Software capabilities are explored for analyzing and selecting building system components.
Prerequisite: TAR 1170C

TAR 2053
Introduction to Computer-Aided Design and Drafting
3 Credits
A first term course in the use of industry standard CADD software (latest version of CAD) for the development of design and construction documents. Topics covered include advanced editing techniques, dimensioning, multi-view drawings and isometric drawings. Completion of BCN 1250 or prior drafting experience strongly recommended.

TAR 2054
Intermediate Computer Aided Design and Drafting
3 Credits
A second level course in the use of industry standard CADD software (latest version of CAD) for the development or design and construction documents. Topics covered include advanced editing techniques, dimensioning, multi-view drawings and isometric drawings. Completion of TAR 2053 or prior CADD experience strongly recommended.

TAX 2010
Federal Tax Accounting II
3 Credits
This course covers practice in the application of the Internal Revenue Cost to determine partnership and corporate income taxes.
Prerequisite: TAX 2000

THE 1000
Introduction to Theatre Arts
3 Credits
Provides an orientation to theater as an art form, with an emphasis on reading and reviewing dramatic plays.
Prerequisites: College level reading and writing skills are required.

THE 1000H
Honors Introduction to Theatre Arts
3 Credits
Same as THE 1000 with honors content. Honors Program permission required.
Prerequisites: College level reading and writing skills are required.

THE 1304
Script Analysis
3 Credits
Teaches the techniques of close reading of dramatic texts for the purpose of acting, directing and designing for the stage.
Prerequisite: THE 1000

TPA 1200
Stagecraft
3 Credits
An introductory course in technical production including scenic construction, sound and properties, stage lighting, and theatre organization.

TPA 1248
Makeup for the Stage
3 Credits
The study of principles, materials, and applications of theatrical makeup.

TPA 1290
Performance Workshop
3 Credits
Provides the opportunity for participation in a major theatrical production as an actor. This course may be repeated two times for credit.

TPP 1110
Acting I
3 Credits
Emphasizes the basic techniques of acting, with an emphasis on the Stanislavsky system.

TAX 2000
Federal Tax Accounting I
3 Credits
This course covers practice in the application of the Internal Revenue Cost to determine individual income tax.
Prerequisite: ACG 2021 or APA 1111
TPP 1111
Acting II
3 Credits
Emphasizes the use of the Stanislavsky system in more advanced scenes. Additional prerequisite: consent of instructor.
Prerequisite: TPP 1110

TPP 1160
Voice and Movement Techniques for the Stage
3 Credits
An exploration of basic vocal skills. Exercises for self-awareness, physical strength, flexibility, and versatility for the actor.
Required for all theatre majors. (Also open for non-majors.)

ZOO 1010C
General Zoology
3 Credits
Basic course pertaining to the development, anatomy, physiology, genetics, ecology, and natural relationships of the animal kingdom combined and integrated with a hands-on laboratory component. A special fee for face-to-face sections will be charged for this course.
Prerequisites: College level reading, writing, and math skills are required.

ZOO 1450
Ichthyology
3 Credits
Designed to provide an introduction to the study of fish. Topics introduced include fish anatomy, reproduction, physiology, nutrition, classification and differences among the families of fish.
Prerequisites: College level reading and writing skills are required.
Co-requisite: ZOO 1450L

ZOO 1450L
Ichthyology Lab
1 Credit
Focuses on fish identification.
Prerequisites: College level reading and writing skills are required.
Co-requisite: ZOO 1450
PSAV Course Descriptions

AER 0014
Automotive Services Assistor
Vocational Credits 10
Clock Hours 300
A general introduction to the procedures related to automotive shop safety, tool and equipment orientation, hazardous waste handling and disposal, the use of service information, mathematical computations commonly used in the automotive industry, preventive maintenance services, employability, and communication skills.

AER 0110
Engine Repair Technician
Vocational Credits 5
Clock Hours 150
An in-depth study of engine operations, engine components, construction and materials, engine problem diagnosis to include engine removal and replacement, engine disassembly, inspection and reassembly to manufacturer’s specifications.

AER 0172
Automotive Heating and Air Conditioning Technician
Vocational Credits 5
Clock Hours 150
Provides the student with an in depth examination of air conditioning and heating system operation including Title IV of the Clean Air Act. Students will receive hands-on instruction in industry accepted practices for recovery and recycling of refrigerants, service, repair, testing, and diagnosis of automotive air conditioning systems using state-of-the-art tools and equipment.

AER 0257
Automatic Transmission and Transaxles Technician
Vocational Credits 5
Clock Hours 150
Student technicians will learn the theory of operation, inspection, testing, diagnosis, in-vehicle services, and overhaul of automatic transmissions and transaxles. Component analysis includes: planetary gears, multiple disc clutches, bands, hydraulic systems and controls, torque converters, electrical, and electronic controls.

AER 0274C
Manual Drivetrain and Axle Technician
Vocational Credits 5
Clock Hours 150
A theoretical and practical application course of study that includes the diagnosis, service and repair of four and five speed manual transmissions and transaxles, mechanical and hydraulic clutch systems, front and rear wheel drive axles, all-wheel drive systems (AWD) and 4X4 transfer cases and drive systems.

AER 0360
Automotive Electrical/Electronic System Technician
Vocational Credits 10
Clock Hours 300
This course provides an in-depth study of automotive electrical systems including interpreting wiring diagrams and using testing and diagnostic equipment. Specific component analysis includes batteries, starting systems, charging systems, lighting systems, gauges, and power accessories (windows, door locks, windshield wipers, etc.).

AER 0418
Automotive Brake Systems Technician
Vocational Credits 5
Clock Hours 150
Students will learn the theory of operation, testing, diagnosis, and service of brake systems. Specific component analysis will include drum and disc brakes, hydraulic controls, power assist units, parking brakes, braking electrical circuits, and antilock braking systems.

AER 0453
Automotive Suspension and Steering Technician
Vocational Credits 5
Clock Hours 150
Students will learn the design, components, theory of operation, inspection, diagnosis, and service of suspension and steering systems. Component analysis will include front and rear suspensions, steering linkages, steering gears, steering columns, wheels, tires, and alignment angle measurement and adjustment.

AER 0503
Automotive Engine Performance Technician
Vocational Credits 10
Clock Hours 300
Provides an in-depth study of the fuel, ignition, and emission control systems of an automobile. Major topics include engine operation, solid state ignition, electronic fuel injection and the use of comprehensive engine systems tests to isolate and repair common engine performance and emission system malfunctions.

AER 0871
Automotive Compressed Natural Gas Technician
Vocational Credits 5
Clock Hours 150
Prepares students for entry into the automotive service industry. Students explore career opportunities and requirements of a professional auto mechanic. Students study the diagnosis, service, maintenance, installation, and repair of automotive compressed natural gas systems.

AER 0872
Automotive Liquid Propane Gas Technician
Vocational Credits 5
Clock Hours 150
This course prepares students for entry into the automotive service industry. Students explore career opportunities and requirements of a professional auto mechanic. Students study diagnostics, maintenance, installation, and repair of automotive liquid propane gas systems.

**AER 0875**  
**Alternative Fuels Maintenance Technician**  
Vocational Credits 10  
Clock Hours 300  
This course prepares students for entry into the Alternative Fuels Service industry. Content emphasizes beginning skills and concepts as a recommended requisite. Students study facility and personal safety, engine operation, types of alternative fuels, hybrid, and electric vehicles. Alternative fuel and electric vehicle maintenance and customer service are included.

**AER 0876**  
**Advanced Alternative Fuels Technician**  
Vocational Credits 10  
Clock Hours 300  
The Alternative Fuels Technician course includes the diagnosis, service, and repair of hybrid, electric vehicle system components, battery, charging systems, and general alternative fuel vehicles. Methods of using natural gas fuel systems and alternative fuel conversions are included.

**AER 0877**  
**CNG Fuel System Inspector**  
Vocational Credits 5  
Clock Hours 150  
The CNG Fuel System Inspector course includes methods for inspecting CNG storage containers, and CNG components. Students study safety inspection methods for compressed natural gas storage containers, system installations, vehicle installations, vehicle components, fuel delivery systems and types of potential damage.

**ARR 0022**  
**Damage Analysis and Estimating**  
Vocational Credits 2.5  
Clock Hours 75  
The Damage Analysis and Estimating course prepares students for entry into the Automotive Collision and Repair industry. Students study damage analysis; estimating; vehicle construction and parts identification; and customer relations and sales skills.

**ARR 0112**  
**Automotive Collision Welding, Cutting and Joining**  
Vocational Credits 2.5  
Clock Hours 75  
The Automotive Collision Welding, Cutting and Joining course prepares students for entry into the Automotive Collision and Repair industry. Students study basic welding skills specifically related to automotive collision and repair; safety precautions; metal welding, cutting, and joining.
ARR 0140
Automotive Collision Repair Helper/Assistant
Vocational Credits 5
Clock Hours 150
The Auto Body Helper/Assistant course prepares students for entry into the Auto Collision industry. Content emphasizes beginning skills and concepts as a recommended requisite. Students study shop and personal safety skills, basic automotive components, tools and equipment, occupational safety, engine operation, and workplace employment skills.

ARR 0141
Automotive Collision Refinish Technician
Vocational Credits 15
Clock Hours 450
The Automotive Collision Refinishing Technician course prepares students for entry into the Automotive Collision and Repair industry. Students study safety precautions; surface preparation; spray gun and related equipment operation; paint mixing, matching and applying; paint defects (causes and cures); and final detailing.

ARR 0295
Structural Repair Technician
Vocational Credits 11.6
Clock Hours 350
The Structural Damage Repair Technician course prepares students for entry into the Automotive Collision and Repair industry. Students study frame inspection and repair; unibody and unitized structure inspection, measurement, and repair; fixed glass; steering and suspension; heating and air conditioning; cooling systems; drive train; fuel, intake and exhaust systems; and restraint systems.

ARR 0312
Non-Structural Damage Repair Technician
Vocational Credits 10
Clock Hours 300
The Non-Structural Damage Repair Technician course prepares students for entry into the Automotive Collision and Repair industry. Students study the preparation; outer body panel repairs, replacements, and adjustments; metal finishing and body filling; movable glass and hardware; plastics and adhesives; electrical; and brakes.

CJK 0001
Introduction to Law Enforcement
Vocational Credits .33
Clock Hours 10
This chapter provides an overview of the law enforcement training program and the requirements for students to become sworn officers, gives students instruction on basic criminal justice values and ethics, defines sexual harassment and ways to avoid compromising interactions with other officers and the public, and emphasizes the command structure within a criminal justice agency. Students will also receive a basic understanding of the structure and components of the criminal justice system.

CJK 0006
Introduction to Law Enforcement 1-6
Vocational Credits 2.2
Clock Hours 67
This module includes units of instruction in the following topics: The Florida Criminal Justice System, Constitutional Law and Florida Statutes, Criminal Justice Values and Ethics, Communication and Interpersonal Skills, and Human Interaction.

CJK 0012
Legal
Vocational Credits 2.06
Clock Hours 62
To act properly and effectively as law enforcement officers without infringing on citizens’ right, students must have an understanding of federal, state, and local laws. Students should also become familiar with case law and how it interprets and further explains enacted laws. Officers’ duties include a variety of responsibilities, such as answering citizen calls, patrolling, determining violations of law, making arrests, using force, and conducting investigations, all of which require a foundational knowledge of the law and the ability to apply that law to specific incidents. This chapter will provide a solid legal foundation from which students may function as law enforcement officers.

CJK 0013
Interactions in a Diverse Society
Vocational Credits 1.33
Clock Hours 40
Law enforcement officers must be able to recognize the issues individuals in a diverse society face during a crisis and communicate with them. People facing difficult and stressful problems may choose to use drugs or alcohol, or display dangerous behaviors, such as attempting to commit suicide. Individuals with physical and developmental disabilities, mental illness, or mental retardation may require special assistance. There are also legal obligations when providing interventions, referral information, and transportation during a crisis situation. Additionally, an officer must be able to identify and deal with gangs and extremist groups with a diverse society.

CJK 0014
Interviewing and Report Writing
Vocational Credits 1.86
Clock Hours 56
This course covers interviewing and note taking ideology, and report writing principles and mechanics.

CJK 0020
CMS Criminal Justice Vehicle Operations
Vocational Credits 1.6
Clock Hours 48
This module includes instruction in the following topics: physiological and psychological factors which impact vehicle operation and control; legal considerations involved in the
operation of emergency vehicles; civil and criminal liability; routine maintenance and inspection of police vehicles; vehicle dynamics; types of skids and their causes; and basic driving skills.

**CJK 0023**
**Introduction to Law Enforcement**
Vocational Credits 0.13
Clock Hours 4
At the end of this course, the student will understand the importance of the Criminal Justice Standards and Training Commission and the requirements for certification as a law enforcement auxiliary officer in the state of Florida.

**CJK 0024**
**Legal Concepts**
Vocational Credits 0.66
Clock Hours 20
At the end of this course, the student will have a foundational understanding of the United States legal system and the various sources of laws.

**CJK 0025**
**Patrol and Professional Communication**
Vocational Credits 0.4
Clock Hours 12
At the end of this course, the student will know the elements of effective communication.

**CJK 0026**
**Interactions in a Diverse Community**
Vocational Credits 0.4
Clock Hours 12
At the end of this course, the student will recognize a disability as defined by the Americans with Disabilities Act (ADA) and use the guidelines to maintain the rights of a disabled person. The student will also know the criminal elements of abuse, neglect, or exploitation of an elderly or disabled adult. The student will identify the characteristics of a crisis and determine an appropriate crisis management intervention resolution.

**CJK 0027**
**Calls for Service and Arrest Procedures**
Vocational Credits .8
Clock Hours 24
At the end of this course, the student will understand how to respond to calls for service, assess a situation upon arrival, and contact complainants and witnesses at the scene.

**CJK 0028**
**Traffic Stops and Crash Investigations**
Vocational Credits .93
Clock Hours 28
At the end of this course, the student will identify common traffic violations and direct pedestrian traffic by identifying safe and efficient actions in planned or emergency situations.
**CJK 0029**  
**Crime Scene and Courtroom Procedures**  
Vocational Credits .26  
Clock Hours 8  
At the end of this course, the student will understand how to secure and protect a crime scene. The student will understand possible responses the defense may raise in a criminal case and understand the different types of court proceedings.

**CJK 0031**  
**CMS First Aid for Criminal Justice Officers**  
Vocational Credits 1.3  
Clock Hours 40  
This module includes instruction in the following topics: responding to medical emergencies; musculoskeletal and soft tissue injuries; medical related issues.

**CJK 0040**  
**CMS Criminal Justice Firearms**  
Vocational Credits 2.7  
Clock Hours 80  
This module includes instruction in the following topics: firearm familiarization; types of ammunition, fundamentals of marksmanship; drawing and holstering a weapon; loading and unloading a weapon; use of cover; weapon malfunctions; live fire exercises; weapon cleaning; qualification; and survival shooting.

**CJK 0051**  
**CMS Criminal Justice Defensive Tactics**  
Vocational Credits 2.7  
Clock Hours 80  
This course teaches prospective officers how to control subjects and defend themselves using appropriate defensive tactics in accordance with the recommended response to resistance matrix.

**CJK 0064**  
**Fundamentals of Patrol**  
Vocational Credits 1.16  
Clock Hours 35  
This chapter provides an overview of the law enforcement techniques and tactics officers use while on patrol. It focuses on electronic communications, community oriented policing, officer safety and survival skills, and basic instruction on receiving a call, interacting with vehicles, and making an arrest.

**CJK 0065**  
**Calls for Service**  
Vocational Credits 1.20  
Clock Hours 36  
At the end of this course, students will be able to respond to calls for service and determine if the call is of a criminal or non-criminal nature, and be able to complete the call according to Florida State Guidelines and Agency Operating Procedures.

**CJK 0077**  
**Criminal Investigations**  
Vocational Credits 1.66  
Clock Hours 50  
An officer’s first step in investigating any crime against a person is to determine if there are any injuries, provide first aid, and summon medical assistance if needed. The second step is to determine whether a crime has occurred and the type of crime. If no crime has occurred, the officer should provide assistance and complete the necessary reports as required by agency policy and procedure. If a crime has occurred, the officer should determine the type of crime and call for assistance, depending on the severity of the crime or injuries. Witnesses must be located, identified, and separated and the offender identified and arrested if he or she is on the scene.

**CJK 0078**  
**Crime Scene to Court Room**  
Vocational Credits 1.16  
Clock Hours 35  
There is a sequence of steps to take upon arriving at an incident or crime scene to protect all parties, gather information to identify, separate, and interview subjects, and successfully complete the initial investigation. An officer must be aware of how to conduct a warrantless legal search of a crime scene, know different search patterns, and understand how to identify types of evidence that might be present at a scene based on the evaluation of the incident or type of crime. An officer must also know how to get help in searching the scene when necessary. The single most significant part of the initial stage of a criminal investigation is processing the crime scene. An officer’s first priority is to protect and preserve the scene to avoid contaminating evidence. Second, the officer must identify, protect, collect, preserve, and maintain the physical evidence, or the prosecution of the suspect may be in jeopardy. If the offender has fled, the officer should put out a be-on-the-look-out (BOLO). Detailed information about what happened should be obtained from the victim and any witnesses. Often, law enforcement officers think the arrest is the end of their role in a criminal case. However, the arrest is only a suspect’s entrance into the criminal justice system; officers remain an integral part of the prosecution process until the case is resolved through entry of a plea, a conviction, or acquittal after trial.

**CJK 0084**  
**DUI Traffic Stops**  
Vocational Credits 0.80  
Clock Hours 24  
This chapter will train officers to detect impaired driving, administer field sobriety tests, make arrests when appropriate, and record the evidence of a DUI violation.

**CJK 0087**  
**Traffic Stops**  
Vocational Credits 1.00  
Clock Hours 30
An officer’s primary responsibility in making traffic stops is to help increase voluntary compliance with traffic laws and improve driver judgment. The end result of traffic stops should be public education and safer roads.

**CJK 0088**
**Traffic Crash Investigations**
Vocational Credits 1.06
Clock Hours 32
Law enforcement officers conduct traffic crash investigations by following a step-by-step approach which encompasses the initial response to the scene, scene assessment and protection, identifying and analyzing information gathered from witnesses, evaluating physical evidence, thoroughly investigating and documenting the crash, and concluding with the appropriate law enforcement action.

**CJK 0090**
**Tactical Applications, Module 11-14**
Vocational Credits 1.8
Clock Hours 54
This module includes units of instruction in the following topics: how courts relate to law enforcement; rules of court procedure; responsibilities of an officer in court proceedings; the first response to an emergency situation; recognition techniques for identifying bombs, explosives and weapons of mass destruction; and riot control procedures for parades, concerts, festivals and other public events.

**CJK 0092**
**Critical Incidents**
Vocational Credits 1.46
Clock Hours 44
Officers must be prepared for many possible outcomes in the course of patrolling their assigned areas. This chapter provides an overview of law enforcement techniques and tactics focusing on ICS training, Active Shooter Scenarios, Natural Disasters, HAZMAT situations, bombs and explosives, and weapons of mass destruction.

**CJK 0096**
**Physical Fitness**
Vocational Credits 2.0
Clock Hours 60
This course provides the student with the physical conditioning necessary to perform the essential functions of a police officer.

**CJK 0283**
**Interpersonal Skills I**
Vocational Credits 2.1
Clock Hours 62
This course provides the students with the verbal skills necessary to communicate effectively with diverse inmate populations.

**CJK 0300**
**Introduction to Corrections**
Vocational Credits 1.1
Clock Hours 32

This course provides the student with an overview of the correctional officer training program to include inmate rights.

**CJK 0305**
**Communications**
Vocational Credits 1.3
Clock Hours 40
This course provides the student with practical skills for interpersonal communication, interviewing, note taking and report writing.

**CJK 0310**
**Officer Safety**
Vocational Credits 0.5
Clock Hours 16
This course provides the student with practical skills to identify inmate threats, manipulations, deception and contraband.

**CJK 0315**
**Facility and Equipment**
Vocational Credits 0.3
Clock Hours 8
This course provides the student with practical skills to issue, receive and inventory equipment used within a correctional facility.

**CJK 0320**
**Intake and Release**
Vocational Credits 0.6
Clock Hours 18
This course provides the student with an overview of inmate intake, classification and release procedures.

**CJK 0325**
**Supervising in a Correctional Facility**
Vocational Credits 1.3
Clock Hours 40
This course provides the student with practical skills to observe and supervise inmates conducting a variety of activities.

**CJK 0330**
**Supervising Special Populations**
Vocational Credits 0.7
Clock Hours 20
This course provides the student with awareness of special inmate populations.

**CJK 0335**
**Responding to Incidents and Emergencies**
Vocational Credits 0.5
Clock Hours 16
This course prepares the student to use equipment, crime scene control and chain of custody procedures for responding to emergencies.

**CJK 0340**
**Officer Wellness and Physical Abilities**
Vocational Credits 1.0
Clock Hours 30
This course prepares the student for the physical demands of being a correctional officer through a wellness and fitness training program.

**CJK 0422**  
**Dart Firing Stun Gun**  
Vocational Credits 0.3  
Clock Hours 8  
Stun guns have been around since the 1960s. Technology has moved over the years from the basic hand-held stun gun to a weapon that now propels darts up to 35 feet and use electricity to incapacitate a non-compliant subject. The use of dart firing stun guns and their effects on the people who are stunned by them has recently been a frequent topic of discussion in the media, among law enforcement officers and administrators, and within the scientific and medical professions. This course will introduce you to the basics of both the stun gun and the dart-firing stun gun and give you some fundamental knowledge on this emerging tool in criminal justice.

**CJK 0771**  
**Criminal Justice Legal II**  
Vocational Credits 0.7  
Clock Hours 22  
This course covers a variety of legal topics to include constitutional law, evidence rules, arrest laws, search and seizure and crimes against persons.

**DEA 0931**  
**Dental Assisting in Orthodontics**  
Vocational Credits 0.5  
Clock Hours 15  
This course includes instruction on the history of orthodontics, malocclusion, orthodontic vocabulary, photographs, bracket slot, wires, tooth movement, and all phases of bonding, wires, headgear, and retainer finishing. This course includes taking the State Expanded Functions Orthodontics Examination and is required for completion of the Dental Assisting Program.

**DEA 0931L**  
**Dental Assisting Orthodontics Lab**  
Vocational Credits 1.0  
Clock Hours 30  
This course includes instruction on the history of orthodontics, malocclusion, orthodontic vocabulary, photographs, bracket slot, wires, tooth movement, and all phases of bonding, wires, headgear, and retainer finishing. This course includes taking the State Expanded Functions Orthodontics Examination. This course is required for completion of the Dental Assisting Program.

**DES 0021**  
**Head, Neck and Dental Anatomy**  
Vocational Credits 1.5  
Clock Hours 45  
A study of the anatomy of the head and neck with emphasis on the maxilla and mandible. In addition, the anatomy of the deciduous and permanent dentitions and supporting structures is covered.
DES 0053L
Dental Pharmacology and Pain Control Lab
Vocational Credits 0.5
Clock Hours 15
This course is a study of agents used in dentistry for local anesthesia and pain control. Nitrous oxide sedation and its use will be covered.

DES 0400
Dental Anatomy and Physiology
Vocational Credits 1.5
Clock Hours 45
A study of the development of the human body along with a survey of the structure, growth, and function of the body’s organ system.

DES 0500
Computer Applications in Modern Dentistry
Vocational Credits 1.0
Clock Hours 30
Introduces the student to basic computer and word processing concepts including dental software, file management, system back up, and equipment maintenance.

DES 0804
Introduction to Clinical Procedures I
Vocational Credits 2.0
Clock Hours 60
This core course introduces the dental assisting and dental hygiene student to the basic concepts of clinical practice. Topics include the history of dentistry, dental health team members, professional organizations, medical/dental history, operation and maintenance of dental equipment, operator/patient, four handed techniques, oral evacuation, dental charting, cleaning of removable appliances, coronal polishing, and fluoride application techniques.

DES 0830L
Expanded Functions for Dental Auxiliaries Lab
Vocational Credits 1.50
Clock Hours 45
This course is designed to provide basic knowledge and clinical practice necessary for the dental assistant to perform the expanded functions permitted by the Rules and Regulations of the Florida State Board of Dentistry.

DIM 0102
Diesel Electrical & Electronics Technician
Vocational Credits 10
Clock Hours 300
The Diesel Electrical and Electronics Technician course prepares students for entry into the Diesel Engine Service Industry. Content emphasizes beginning skills and concepts as a recommended requisite. Students study general electrical systems, batteries starting, charging, lighting, gauges, warning devices, and related electrical system diagnostics, service, and repair.

DIM 0103
Diesel Engine Preventive Maintenance Technician
Vocational Credits 5
Clock Hours 150
The Diesel Engine Preventive Maintenance Technician course prepares students for entry into the Diesel Engine Service Industry. Content emphasizes beginning skills and concepts as a recommended requisite. Students study engine system, cab and hood systems, electrical/electronic systems, frame and chassis systems diagnostics, service, and repair.

DIM 0104
Diesel Engine Technician
Vocational Credits 10
Clock Hours 300
The Diesel Engine Technician course prepares students for entry into the Diesel Engine Service Industry. Content emphasizes beginning skills and concepts as a recommended requisite. Students study engine, cylinder head, valve train, engine block, lubrication, cooling, air induction, exhaust, fuel, and engine brakes diagnostics, service, and repair.

DIM 0105
Diesel Brakes Technician
Vocational Credits 10
Clock Hours 300
The Diesel Brakes Technician course prepares students for entry into the Diesel Engine Service Industry. Content emphasizes beginning skills and concepts as a recommended requisite. Students study diagnostic, service, and repair of air, and hydraulic brakes.

DIM 0106
Diesel Heating & A/C Technician
Vocational Credits 5
Clock Hours 150
The Diesel Heating and Air Conditioning Technician course prepares students for entry into the Diesel Engine Service Industry. Content emphasizes beginning skills and concepts as a recommended requisite. Students study diagnostic, service, and repair of HVAC, and NC systems.
**DIM 0107**  
**Diesel Steering & Suspension Technician**  
Vocational Credits 5  
Clock Hours 150  
The Diesel Steering and Suspension Technician course prepares students for entry into the Diesel Engine Service industry. Content emphasizes beginning skills and concepts as a recommended requisite. Students study diagnostic, service, and repair of steering, suspension, wheel alignment, wheels, tires, and frame systems.

**DIM 0108**  
**Diesel Drivetrain Technician**  
Vocational Credits 5  
Clock Hours 150  
The Diesel Drivetrain Technician course prepares students for entry into the Diesel Engine Service industry. Content emphasizes beginning skills and concepts as a recommended requisite. Students study diagnostic, service, and repair of clutch, transmission, driveshaft, universal joint, and drive axle systems.

**DIM 0109**  
**Diesel Hydraulics Technician**  
Vocational Credits 5  
Clock Hours 150  
The Diesel Hydraulics Technician course prepares students for entry into the Diesel Engine Service industry. Content emphasizes beginning skills and concepts as a recommended requisite. Students study diagnostic, service, and repair of hydraulic, pumps, filtration/reservoir, hoses, fittings, connectors, control valves, and actuator systems.

**DIM 0110**  
**Diesel Power Train Technician**  
Vocational Credits 5  
Clock Hours 150  
The Diesel Power Train Technician course is designed to build on the skills and knowledge students learned in the Diesel Drivetrain Technician course for entry into the Heavy Equipment industry. Content emphasizes beginning skills. Students study shop safety procedures, track systems, power trains, components, and qualifications for employment.

**DIM 0130**  
**Diesel Brakes/Fluids Technician**  
Vocational Credits 10  
Clock Hours 300  
The Diesel Brakes/Fluids Technician course is designed to build on the skills and knowledge students learned for entry into the Heavy Equipment industry. Content emphasizes beginning skills and concepts. Students study air and hydraulic brakes/ fluid systems.
DIM 0810  
**Transit Equipment Preventative Maintenance**  
Vocational Credits 6.7  
Clock Hours 200  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. The competencies include understanding shop organization and management, demonstrating safety awareness and practices, and performing basic preventive maintenance procedures.

DIM 0811  
**Transit Basic Electrical Systems**  
Vocational Credits 4.0  
Clock Hours 120  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. These competencies include demonstrating shop and occupational safety procedures, maintaining and repairing transit bus electrical systems and components, and demonstrating the qualifications for employment.

DIM 0812  
**Transit Wheelchair Lift/Ramp**  
Vocational Credits 2.0  
Clock Hours 60  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. The competencies include demonstrating shop and occupational safety procedures, maintaining and repairing transit bus wheelchair lift and ramp systems and components, and demonstrating the qualifications for employment.

DIM 0813  
**Transit Diesel Engine Preventative Maintenance**  
Vocational Credits 4.0  
Clock Hours 120  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. These competencies include demonstrating shop and occupational safety procedures, performing diesel engine preventive maintenance, and demonstrating the qualifications for employment.

DIM 0814  
**Transit Steering and Suspension**  
Vocational Credits 4.0  
Clock Hours 120  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. These competencies include demonstrating shop and occupational safety procedures, maintaining and repairing transit bus steering and suspension, and demonstrating the qualifications for employment.

DIM 0820  
**Transit Hydraulics**  
Vocational Credits 2.0  
Clock Hours 60  
The purpose of the course is to develop the competencies essential to the public transit bus technology industry. These competencies include demonstrating shop and occupational safety procedures, maintaining and repairing transit bus hydraulic systems and demonstrating the qualifications for employment.

DIM 0821  
**Transit Diesel Electrical and Diesel Engine Electronics**  
Vocational Credits 4.0  
Clock Hours 120  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. These competencies include demonstrating shop and occupational safety procedures, identifying and applying electronic principles related to diesel technology, maintaining and repairing electrical systems, and demonstrating the qualifications for employment.

DIM 0822  
**Transit Drive Train**  
Vocational Credits 4.0  
Clock Hours 120  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. These competencies include demonstrating shop and occupational safety procedures, maintaining and repairing transit bus alternative fuels systems and components, and demonstrating the qualifications for employment.

DIM 0823  
**Transit Intermediate Electrical Systems**  
Vocational Credits 4.0  
Clock Hours 120  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. These competencies include demonstrating shop and occupational safety procedures, maintaining and repairing electrical systems and components, and demonstrating the qualifications for employment.

DIM 0824  
**Transit Brakes/Air System**  
Vocational Credits 6.6  
Clock Hours 200  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. These competencies include demonstrating shop and occupational safety procedures, maintaining and repairing transit bus brake and air systems, and demonstrating the qualifications for employment.

DIM 0830  
**Transit Alternative Fuels Systems**  
Vocational Credits 4.0  
Clock Hours 120  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. These
competencies include demonstrating shop and occupational safety procedures, maintaining and repairing transit alternative fuels systems, and demonstrating the qualifications for employment.

**DIM 0831**  
Transit Advanced Electrical Systems  
Vocational Credits 4.0  
Clock Hours 120  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. These competencies include demonstrating shop and occupational safety procedures, maintaining and repairing advanced electrical systems and components, and demonstrating the qualifications for employment.

**DIM 0832**  
Transit Heating and Air Conditioning  
Vocational Credits 6.7  
Clock Hours 200  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. These competencies include demonstrating shop and occupational safety procedures, maintaining and repairing transit heating and air conditioning systems, and demonstrating the qualifications for employment.

**DIM 0833**  
Transmission Diagnosis, Rebuild and Repair  
Vocational Credits 4.0  
Clock Hours 120  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. These competencies include demonstrating shop and occupational safety procedures, maintaining and repairing transit transmissions, and demonstrating the qualifications for employment.

**DIM 0834**  
Diesel Engine Diagnosis  
Vocational Credits 4.0  
Clock Hours 120  
The purpose of this course is to develop the competencies essential to the public transit bus technology industry. These competencies include demonstrating shop and occupational safety procedures, maintaining and repairing diesel engines systems, and demonstrating the qualifications for employment.

**EMS 0110**  
Emergency Medical Technician  
Vocational Credits 10  
Clock Hours 300  
This course prepares students for employment as state certified Emergency Technicians in accordance with Chapter 401, Florida Statute and Rule Chapter 64J, Florida Administrative Code. This course is required for firefighter students seeking to become state certified as either a Fire Fighter I/II in accordance with Chapter 633, Florida Statutes and Rule Chapter 69A-37, F.A.C. The course content includes but is not limited to patient assessment, airway management, cardiac arrest, external and internal bleeding and shock, traumatic injuries, poisoning, stroke, communicable diseases, alcohol and drug abuse, transportation of patient.

**FFP 0010**  
Fire Fighting I  
Vocational Credits 6.9  
Clock Hours 206  
This course satisfies the requirement for NFPA Firefighter I certification. Topics of instruction include fire behavior, building construction, personal protective equipment, fire control, and wild land firefighting. This course follows the curriculum and standards from the Bureau of Fire Standard and Training.

**FFP 0020**  
Fire Fighting II  
Vocational Credits 6.4  
Clock Hours 192  
This course satisfies the requirement for a NFPA Firefighter II certification. This course consists of advanced fire control, hazardous materials and extrication operations.

**FFP 0141**  
Emergency Services First Responder  
Vocational Credits 1.8  
Clock Hours 53  
Trains individuals to accept and recognize medical standards in emergency first aid procedures to include medical, environmental, and trauma related emergencies.

**HSC 0003**  
Fundamentals Allied Health Occupations  
Vocational Credits 0.5  
Clock Hours 16  
This course introduces the student to skills and procedures common to allied health occupations, including basic first aid and emergency care, safety, security, proper body mechanics, vital signs, wellness, disease control, blood borne pathogens and AIDS.

**PMT 0070**  
Welder Assistant I  
Vocational Credits 5  
Clock Hours 150  
This course prepares students for entry into the welding industry. Students explore career opportunities and requirements of a professional welder. Content emphasizes beginning skills key to the success of working in the industry. Students study workplace safety and organization, basic manufacturing processes, metals identification, basic interpretation of welding symbols, and oxyfuel gas cutting practices.

**PMT 0071**  
Welder Assistant II  
Vocational Credits 5  
Clock Hours 150  
This course is designed to build on the skills and knowledge students learned in Welder Assistant I for entry into the weld-
ing industry. Students explore career opportunities and requirements of a professional welder. Content emphasizes beginning skills key to success of working in the welding industry. Students study drawings and welding symbols, intermediate oxyfuel gas cutting practices, plasma arc cutting principles, and basic shielded metal arc welding (SMAW).

**PMT 0072**  
**Welder, SMAW I**  
Vocational Credits 5  
Clock Hours 150  
This course prepares students for entry into the welding industry as a basic shielded metal arc welder (SMAW). Students explore career opportunities and requirements of a professional welder. Content emphasizes beginning skills key to success of working in the welding industry. Students study basic shielded metal arc welding (SMAW), carbon arc gouging (CAG) principles and visual examination skills.

**PMT 0073**  
**Welder: SMAW 2**  
Vocational Credits 5  
Clock Hours 150  
This course is designed to build on the skills and knowledge students learned in Welder SMAW I for entry into the welding industry as a basic shielded metal arc welder (SMAW). Students explore career opportunities and requirements of a professional welder. Content emphasizes beginning skills key to success of working in the welding industry. Students study employability and welding careers, and intermediate shielded metal arc welding (SMAW).

**PMT 0074**  
**Welder: Welder**  
Vocational Credits 15.0  
Clock Hours 450  
This welder course builds on the skills and knowledge students earned in Welder Assistant and SMAW courses. Students explore career opportunities and requirements of a professional welder. Content emphasizes skills key to success of working in the welding industry. Students study basic and intermediate Gas Metal Arc Welding (GMAW), and basic and intermediate Flux-Core Arc Welding (FCAW), basic and intermediate Gas Tungsten Arc Welding (GTAW), and a basic understanding of pipe welding.

**SCY 0010**  
**Bail Bonds**  
Vocational Credits 4.0  
Clock Hours 120  
In this course the student will learn how to apprehend and detain defendants, surrender defendants to the proper authorities, execute and sign bonds, handle collateral receipts, and deliver bonds to the proper authorities.

**SCY 0051**  
**Private Investigation I**  
Vocational Credits 0.8  
Clock Hours 24  
Prepares students for the unarmed Private Investigation, Class "CC" License.

**SCY 0052**  
**Private Investigation II**  
Vocational Credits 0.5  
Clock Hours 16  
Completes the training for a Private Investigator Intern to obtain a Class "CC" license.