Gloucester Campus
2020 Academic Catalog
Welcome to Rowan College of South Jersey

It is my great pleasure to welcome you to the inaugural class of Rowan College of South Jersey — a new regional college, academically designed to transform higher education in New Jersey.

On July 1, 2019, Rowan College at Gloucester County and Cumberland County College merged to create South Jersey’s first regional college. Together these two campuses offer more than 120 unique degrees and certificates, combining 100 years of experience to provide a variety of degree selections, cost-saving initiatives, and scholarship and internship opportunities, at one of the lowest tuition rates in the state. This pioneering, hybrid institution provides students with more choices, including the option to pursue advanced degrees at Rowan University and other four-year universities, without ever leaving the Rowan College of South Jersey campuses.

The merger of these two community colleges, in conjunction with an expanded 10-year premier partnership agreement with Rowan University, leads the way to a future filled with diverse, one-of-a-kind educational opportunities. Ambitious teenage students seeking a head start on their college studies can take classes and save money with high school dual enrollment programs, including Rowan High School Start and the High School Option Program (HSOP). Through exclusive programs like Rowan Choice and 3+1 degree offerings, students save substantially on their education and easily transition to Rowan University for a bachelor’s degree. Academic and workforce-training programs ensure the availability of skilled employees, answering both professional and community needs.

With two campuses, increased program selections, a premier partnership with Rowan University, affordable tuition and numerous transfer routes, Rowan College of South Jersey offers students more advantages than ever before. Congratulations on choosing Rowan College as the place to begin writing your success story.

Frederick Keating, Ed.D.
President
## Academic Calendar

### FALL SEMESTER 2019

- **Thursday, August 29** .............................................. New Student Orientation
- **Monday, September 2** ..................................... Labor Day – College Closed
- **Tuesday, September 3** ................................. First Day of Weekday Classes
- **Saturday, September 7** ................................. First Day of Saturday Classes
- **Monday, October 14** ................................... Columbus Day – College Open
- **Wednesday, October 23** .......................... Professional Development Day – No Classes 7:45 a.m.–3:55 p.m. Classes Held 4–10:55 p.m.
- **Wednesday, November 27** ...................................... No Classes after 4 p.m.
- **Thursday, November 28** ............................. Thanksgiving – College Closed
- **Friday, November 29** ...................................... College Holiday – College Closed
- **Saturday, November 30** ............................................................... No Classes
- **Monday, December 9** ........................................... First Day of Winter Session
- **Friday, December 13** ............................................ End of Weekday Classes
- **Saturday, December 14** ......................................... End of Saturday Classes
- **Tuesday, December 24** ............................... Winter Break – College Closed
- **Wednesday, December 25** ..................... College Holiday – College Closed
- **Thursday, December 26** – ..................................................... Winter Break – Tuesday, December 31

### WINTER SEMESTER 2020

- **Monday, December 9 (2019)**............................. First Day of Winter Session
- **Wednesday, January 1** .................................. New Year’s Day – College Closed
- **Friday, January 10** ..................................................... End of Winter Session

### SPRING SEMESTER 2020

- **Thursday, January 16** ............................. Professional Development Day
- **Monday, January 20** ................................. Martin Luther King Day – College Closed
- **Tuesday, January 21** ................................. First Day of Weekday Classes
- **Saturday, January 25** ................................. First Day of Saturday Classes
- **Monday, March 16 –** ................................. Spring Break – Wednesday, March 18 No Classes
- **Thursday, March 19** ................................. College Holiday – College Closed
- **Friday, March 20** ......................................... College Holiday – College Closed
- **Saturday, March 21** ......................................... Saturday Classes Held
- **Friday, April 10** ......................................... College Holiday – College Closed
- **Saturday, April 11** ......................................... No Classes
- **Saturday, May 2** ......................................... End of Saturday Classes
- **Wednesday, May 6** ......................................... End of Weekday Classes
- **Thursday, May 14** .............................................. Commencement

### SUMMER SEMESTER 2020

- **Monday, May 18** ........................................... First Day of Summer Semester
- **Monday, May 25** ................................. Memorial Day – College Closed
- **Friday, July 3** ......................................... College Holiday – College Closed

This calendar was correct at the time of publication and is subject to change. Please visit [RCSJ.edu](http://RCSJ.edu) for the most recent information.

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A comprehensive guide to Rowan College of South Jersey policies and administrative procedures can be viewed at [RCSJ.edu/CollegePolicies](http://RCSJ.edu/CollegePolicies).

The Rowan College of South Jersey faculty and staff directory is available at [RCSJ.edu/gc/Personnel](http://RCSJ.edu/gc/Personnel).

Information in the 2020 Rowan College at South Jersey Academic Catalog is accurate as of date of publication in August 2019 and is subject to change.
College Overview

Rowan College of South Jersey was established on July 1, 2019, with the merger of Cumberland County College and Rowan College at Gloucester County. It is a comprehensive, two-year, dual-campus regional institution sponsored by the residents of Cumberland and Gloucester Counties through their respective Boards of Chosen Freeholders. The College is accredited by the Middle States Commission on Higher Education.

Rowan College seeks to assist each person in the development of a career, while at the same time developing humanistic values and encouraging personal enrichment. The College is dedicated to its community and accepts the responsibility of providing post-secondary educational opportunities to all who seek them. It provides college and university transfer programs, career education, community services and special assistance programs.

Rowan College seeks to bring higher education within the geographic and financial reach of all residents.

State of New Jersey
Vision for Higher Education

New Jersey and its colleges and universities embrace their shared responsibility to create and sustain a higher education system that is among the best in the world, enabling all people to achieve their maximum potential, fostering democratic principles, improving the quality of life and supporting the state’s success in a global economy.

Rowan College of South Jersey Mission

Rowan College of South Jersey is a center for learning that strives for academic excellence, supports the economic development of the community and seeks to enhance the community’s quality of life through affordable, accessible programs and services in a safe and caring environment.

Gloucester County
Board of Chosen Freeholders

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Lyman Barnes, Education Liaison
Daniel Christy
Jim Jefferson
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Affirmative Action Statement:

The Board of Trustees is committed to providing a work and academic environment that maintains and promotes affirmative action and equal opportunity for all employees and students without discrimination on the basis of certain enumerated and protected categories. These categories are race, creed (religion), color, national origin, nationality, ancestry, age, sex (including pregnancy and sexual harassment), marital status, domestic partnership or civil union status, affectional or sexual orientation, gender identity or expression, atypical hereditary cellular or blood trait, genetic information, liability for military service, or mental or physical disability, including AIDS and HIV-related illnesses. For questions concerning discrimination, contact Almarie J. Jones, Special Assistant to the President, Diversity and Equity/Title IX/Compliance at 856-415-2154 or ajones@rcsj.edu. For disability issues, contact Dennis M. Cook, Director, Department of Special Services, ADAAA/504 Officer at 856-415-2265 or dcook@rcsj.edu.

Accreditation

Rowan College of South Jersey is accredited by the Middle States Commission on Higher Education. The Commission may be contacted at 3624 Market Street, Philadelphia, PA 19104 or by calling 267-284-5000. Accreditation is a formal expression of confidence in an institution’s performance. Institutional accreditation reflects clearly defined goals and objectives.

All associate degrees and certificate programs are approved by the New Jersey President’s Council and the College’s Board of Trustees. Specialized accreditation or licensure in Nursing and Health Professions and technical programs include:

• The Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs, 254000 U.S. Highway 19 North, Suite 158, Clearwater, FL 33756, phone: 727-210-2350, email: mail@caahed.org, in collaboration with Joint Review Committee on Education in Diagnostic Medical sonography, 6021 University Boulevard, Suite 500, Ellicott City, MD 21043, phone: 443-973-3251, email: mail@jrcdms.org.

• The Nuclear Medicine Technology program is accredited by Joint Review Committee on Educational Programs in Nuclear Medicine Technology, 2000 W. Danforth Road, Suite 130 #203, Edmond, OK 73003, phone: 405-285-0546 and the State of New Jersey Department of Environmental Protection, Radiation Protection and Release Prevention Bureau of X-Ray Compliance, Ramona Chambus, Acting Chief, 25 Arctic Parkway, P.O. Box 420 (Mail Code 25-01).

• The Nursing program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326, phone: 404-975-5000,acenursing.org and the New Jersey Board of Nursing, 124 Halsey Street, P.O. Box 45010, Newark, NJ 07101, phone: 973-504-6430, https://www.njconsumeraffairs.gov/nur. Questions may be addressed to the Board of Nursing and the ACEN at their respective address.

• The Paralegal (Gloucester campus) degree and certificate programs are approved by the American Bar Association (ABA) – ABA Standing Committee on Paralegals, 321 N. Clark Street, Chicago, IL 60654-7598, americanbar.org/groups/paralegals.

• The Physical Therapist Assistant program at Rowan College of South Jersey is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, VA 22314, phone: 703-706-3245, email: accreditation@apta.org, website: http://www.capteonline.org. If needing to contact the program directly, please call 856-415-2188 or email louch@rcsj.edu.

• The Practical Nursing (Cumberland campus) certificate program is accredited by the New Jersey Division of Consumer Affairs, New Jersey Board of Nursing, 124 Halsey Street, P.O. Box 45010, Newark, NJ 07101, phone: 973-504-6430, https://www.njconsumeraffairs.gov/nur

• The Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606, phone: 312-704-5300, jcert.org and the State of New Jersey Department of Environmental Protection Bureau of X-ray Compliance, P.O. Box 420, Trenton, NJ 08625, phone: 609-984-5890, state.nj.us/dep/rrp
Financial Services and Information

Gloucester Campus Tuition and Fees
(as of Fall 2019; all costs subject to change)

1. Tuition

   Gloucester and Cumberland County Residents $108.00 per credit
   Out-of-County Residents\(^1\) 136.00 per credit
   Out-of-State Residents 280.00 per credit
   International Students 300.00 per credit
   NJVCC Online Courses\(^2\) 100.00 per credit
   High School Option (HSOP) 65\% Discount
   (discount applies only to tuition and per credit fees, no limit on number of courses)
   High School Dual Option 125.00 per course\(^3\)
   (\(^3\)For classes taken at high school. If taken at Rowan College pay HSOP rate.)
   Partnership Agreements 33\% Discount
   (discount applies only to tuition and per credit fees)
   Senior Citizen Discount 50\% Discount
   (discount applies only to tuition, no limit on number of courses)

2. Required Fees

   General Service Fee 42.00 per credit
   Capital Construction Fee 2.00 per credit

3. Program Fees

   Fee is applied per semester $1,150.00
   for students enrolled in Nursing, Allied Health
   Fee is applied per semester $1,000.00
   beginning second academic term for students enrolled in Physical Therapist Assistant and Automotive Technology

4. Course Fees

   Fees are applied to courses according to the following categories. Please check the course description section to see which fees apply to your selected course(s).
   A. Computer Laboratory 25.00
   B. Art (some courses), 40.00*
   Civil Engineering, Drafting, Computer Graphic Arts
   C. Automotive Technology, Science 75.00
   G. Lab Fee – 1 Contact 108.00*
   H. Lab Fee – 2 Contacts 216.00*
   I. Lab Fee – 3 Contacts 324.00*
   J. DMS 106, 210, 221 50.00*
   K. Curriculum Review Fee 400.00*
   O. Online Technology Fee 75.00
   Q. Quickbooks – BUS 207 150.00*
   R. PTA Assessment Fee 200.00*
   S. PTA Clinical Fee 100.00*
   T. PTA Practice Exam Fee 150.00*
   W. BIO 212 (Wetlands Institute) 250.00*
   Y. Honors Research – BIO 230 200.00*

5. Additional Fees

   Late Registration Fee 20.00
   (full- or part-time)
   Graduation Fee 65.00
   Late Payment Fee 30.00
   Payment Plan Fee 40.00
   Returned Check Fee \(\text{\&} \) plus 30.00
   Stop and Reissue Check Fee \(\text{\&} \) plus 30.00
   Reissue Check Fee \(\text{\&} \)
   Reissue NMT Badge Fee \(\text{\&} \)
   ID card Replacement Fee 10.00
   ACT (Residual) Exam* §
   LEXIS-NEXIS Annual Fee* §
   CCMA Phlebotomy, EKG and Medical Assistant Fees* §
   Nurse Entrance Test (NET) Fee*** §
   Nursing and PTA HESI Admission Assessment Exam Fee** (per test) §
   Nursing HESI Exit Exam (NUR 220) Fee** (per test) §
   CLEP/DSST Fees —
   Test Administration Fee 25.00 per exam
   Examination Fee §
   Other Standardized Tests Fee §
   Liability Insurance (Nursing and Health Professions students only) §
   Library Membership Fee —
   Non-student County Residents** 10.00 per annum
   Transcripts (processing options) 5.00
   plus \(\text{\&} \) per standard (3-5 business days)
   plus \(\text{\&} \) per expedited (next business day)
   Replacement Diploma Fee 35.00

* Fee subject to change
\(\text{\&} \) Cost pass through
§ Cost pass through plus $25 administration
\(^1\) Out-of-county students must apply for a Certificate of Residence (charge-back) from their home county as required by State Statute 18A:64A-23; 18A:64B-4.
\(^2\) The NJVCC Online course fee is an estimate for informational purposes only.
\(^3\) The actual rate is set by the Council of County Colleges.
\(^*\) Processing and administering of all standardized tests are charged for the actual cost to purchase the test (approximately $30 to $50 per test) plus $25 fee to administer the test.
\(^\circ\) The NET is NOT required for applicants to Rowan College’s Nursing program. Rowan College is a NET testing site for other Nursing programs.
** County borrowers from communities not participating in the GOLD System.
\(\times\) These course fees are in accordance with programs listed in the Academic Catalog.

(Reference Board Policy 6011)
Financial Services and Information

Payment Policy

Tuition and fees are payable at the time of registration, or by the payment deadline if the student is enrolled prior to open registration. It is the student’s responsibility to make any arrangements for alternate payment solutions, such as a payment plan, financial aid, scholarships, student loans or a third party payment arrangement. A student is expected to meet or to make arrangements to meet all financial obligations as they occur at the College. Any student with outstanding financial obligations to the College will not be permitted to register for courses, receive transcripts or a diploma, or have transcripts sent on his/her behalf until any financial obligation is satisfied. The College also reserves the right to cancel previously-registered courses of students who do not meet the payment deadline.

Please note that non-refundable tuition deposits, e.g. Nursing and Health Professions and Rowan Choice, will be maintained by the College under the student’s account until the end of the academic year in which the deposit was required, after which a new, non-refundable tuition deposit will be required.

While the College will exhaust all means to collect on unpaid student accounts prior to the use of collection agencies, attorneys and/or credit bureau reporting, the College reserves the right to take legal action to collect payments that are owed.

Understanding that there are circumstances where balances cannot be collected, the College will have the ability to write off in full any account that has had an account balance for at least three years and is deemed uncollectible.

Any exceptions to this policy must be approved by the President or his/her designee.

(Reference Board policy and Administrative procedure 6022)

Payment Options

RCSJ offers many ways to make financing one’s college career convenient and attainable. Payments can be made in person, online or over the phone.

There is a payment plan available for the fall, spring and summer semesters. A non-refundable $40 fee is due at the time of enrollment along with the first payment. All payments must be made electronically through a credit card, debit card, checking account or savings account. There is no monthly billing.

Payment plan students who drop classes or withdraw are not exempt from the normal refund calculation. Considering the timing of the drop and payments received, a balance may still be due.

For more information on payment options, please visit RCSJ.edu/BusinessOffice.

Course Abbreviation Key

- **CLASS DAYS:**
  The key to class days is:
  - M Monday
  - T Tuesday
  - W Wednesday
  - R Thursday
  - F Friday
  - S Saturday
  - TBA – to be announced; check the website at RCSJ.edu/gc/Courses (Course Registration section) prior to the start of class for updated information.

- **COURSE SECTION NUMBER CODES:**
  Section Numbers | Satellite Locations
 -----------------|------------------
  G1-G9           | GCIT
  B1-B9           | Business Online
  E1-E9           | Evening
  M1-M9           | Late Start
  D1-D9           | Dual Credit
  W1-W9           | Weekend
  41              | Ford ASSET
  45-49           | Teachers 2000
  51-59           | Online Courses
  65-69           | Teachers 2000
  70-79           | Accelerated Courses
  80-89           | Special Courses
  100-110         | Rowan Choice only (offered at Rowan University)
  510-590         | Online Courses

- **BUILDING CODES — Gloucester Campus:**
  - BAC – Business and Corporate Center (500-level rooms)
  - CC – College Center (200-level rooms)
  - IC – Instructional Center (400-level rooms)
  - LC – Learning Commons (Academic Support Center)
  - LJC – Law and Justice Education Center, Police Academy (300-level rooms)
  - MEC – Math and Engineering Center, (1200-level rooms)
  - NAH – Nursing and Allied Health Center (1000-level rooms)
  - PACTR – Performing Arts Center
  - PEC – Physical Education Center, Fitness Center (300-level rooms)
  - SCOTT – Scott Hall for Science and Technologies (700-level rooms)
  - SS – Student Services, upper level (1000-level rooms)
  - UC – University Center (900-level rooms)
  - WELC – Welcome Center

Satellite Locations:
- BOZ – Bozorth Building, Rowan University campus
- BWL – Brunswick Lanes, Deptford
- CLINIC – Clinical
- DFT – Deptford High School
- GCIT – Gloucester County Institute of Technology

- **INSTRUCTOR AND ROOM ASSIGNMENTS** are subject to change. Rowan College reserves the right to cancel a scheduled class when registration is insufficient. Students should review their schedules the day prior to term start for any changes.
Explore Your Learning Alternatives

Many of today’s learners use a variety of methods to meet their educational objectives. eLearning, also called Distance learning, provides an alternative to traditional classroom instruction by offering convenient educational opportunities without the normal constraints of time or place. eLearning courses are part of the College’s regular course offerings and are fully equivalent to courses taught on campus. eLearning courses may be applied to a RCSJ degree or certificate or taken as electives for general interest or for professional development.

RCSJ offers several types of eLearning opportunities, including online, hybrid and web-enhanced courses. Students in any type of eLearning course must have easy, frequent access to a computer with broadband internet access.

**Online Courses** — Online courses are held entirely online and students will never meet in a physical classroom. Students are required to complete all course work, including tests and exams, online.

**Hybrid Courses** — In Hybrid courses, 50–75% of all class meetings are held on the RCSJ campus, while the remaining class meetings and course work is conducted online. Students will be required to complete no more than 50% of the course work online.

**Web-Enhanced Courses** — Web-enhanced courses are the most common type of course at RCSJ, and are very similar to traditional, face-to-face courses. Web-enhanced courses meet on campus and utilize eLearning for up to 25% of the course work.

Currently there are nine, fully online programs at RCSJ, including:
- A.S. Business Administration
- A.A.S. Digital Marketing
- A.S. Human Resources Management
- A.A. Arts and Sciences
- A.A. Arts and Sciences: Communications Option
- A.A. Arts and Sciences: History Option
- A.A. Arts and Sciences: Psychology Option
- A.A. Arts and Sciences: Social Work Option
- A.A. Arts and Sciences: Sociology Option

There are also five, fully online Certificates of Achievement, including: Accounting, Business Software Tools, Digital Marketing, Management and Technology Help Desk Support

For more information about these programs, contact the Division of Business Studies or the Division of Education, Behavioral Sciences and Humanities.

Successful eLearning students are highly motivated, independent, and have strong reading and writing skills. To learn if this option is right for you, please call 856-415-2298, email us at eLearning@rcsj.edu or visit RCSJ.edu/eLearning and click on “Is eLearning Right for You?”

Computers On Campus

**Resources to Enhance Your Education**

The College is committed to providing open access to cutting-edge technology through well-equipped computer facilities, including research databases and software applications. RCSJ has a high-speed Internet connection, and computers are linked in a local area network. Each lab is geared to accommodate varying needs of students, such as:

<table>
<thead>
<tr>
<th><strong>Homework Assignments</strong></th>
<th>Open Computer Labs in Library and Instructional Center, Room 438&lt;br&gt;Academic Support Center in the Learning Commons (LC)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Internet Access</strong></td>
<td>Open Computer Labs in Library and Instructional Center, Room 438&lt;br&gt;LC</td>
</tr>
<tr>
<td><strong>Placement/Makeup Testing</strong></td>
<td>LC&lt;br&gt;Academic Testing Center</td>
</tr>
<tr>
<td><strong>eLearning/ Distance Education</strong></td>
<td>Open Computer Labs in Library and Instructional Center, Room 438&lt;br&gt;LC</td>
</tr>
<tr>
<td><strong>Report Writing</strong></td>
<td>Open Computer Labs in Library and Instructional Center, Room 438&lt;br&gt;LC</td>
</tr>
<tr>
<td><strong>Research</strong></td>
<td>Library</td>
</tr>
<tr>
<td><strong>Academic Support Center</strong></td>
<td>LC (Room 603)</td>
</tr>
<tr>
<td><strong>Computer Graphic Arts</strong></td>
<td>Open Computer Labs in Library and Instructional Center, Room 438</td>
</tr>
</tbody>
</table>

Continual upgrades are made to keep RCSJ’s campus current with new technologies. Users should check the campus technology website at RCSJ.edu/gc/TechSupport to see what new services and software are available.
Programs of Study

Associate in Arts Degree, Associate in Science Degree — Transfer Programs

The Associate in Arts (A.A.) and Associate in Science (A.S.) degrees are similar to the first two years of academic work at four-year colleges and universities. These degree programs are transfer-oriented and may directly assist students who subsequently choose to pursue a baccalaureate degree at a four-year institution. Generally, associate degree programs require 60–66 semester hours of credit.

In selecting a program and corresponding courses, students should check requirements of the college or university they intend to transfer to be sure the courses and credits will be accepted toward an advanced degree. All students should consult with advisors during their early semesters at the College to discuss occupational or transfer plans.

Associate in Arts Degree (A.A.)

The Associate in Arts (A.A.) degree nomenclature is appropriate for programs in the liberal arts, humanities, social sciences or fine and performing arts; such programs are transfer-oriented. For A.A. degrees, general education courses should total no fewer than 45 semester credit hours or the equivalent.

Associate in Science Degree (A.S.)

The Associate in Science (A.S.) degree nomenclature is appropriate for programs in mathematics, sciences, business or in allied health fields if the program is intended as pre-baccalaureate work; such programs are transfer-oriented. General education courses for the A.S. degree should total no fewer than 30 semester credit hours or the equivalent.

Associate in Applied Science (A.A.S.)

The Associate in Applied Science (A.A.S.) degree nomenclature is appropriate for programs that emphasize career preparation in the applied arts and sciences, typically at the technical or semiprofessional level. Such programs are designed to prepare students for job entry at completion of the program, notwithstanding any articulation agreements with four-year programs that may be in effect for a particular A.A.S. program. General education courses shall total no fewer than 20 semester credit hours or the equivalent.

Specialized Associate in Nursing (A.S.)

Specialized associate degree programs, such as the Associate in Fine Arts (A.F.A.) and A.S. in Nursing, shall normally require no fewer than 20 semester credit hours or the equivalent in general education courses.

Certificate Programs

Certificate programs offer students a concentration of courses generally extracted from parallel degree programs. These concentrated programs give students knowledge and skills needed for employment in related fields. Certificate programs typically require a maximum of 36 semester hours of instruction.

Certificates of Achievement

Certificates of Achievement are concentrated programs offered in specialized skill areas. They are designed for professionals who seek to develop or enhance workplace skills. Certificates of Achievement total between 12–29 credits.

Degree Requirements

In order to graduate from RCSJ with an associate degree, a student must:

1. Earn a GPA of 2.000 or higher;
2. Complete all courses required for his/her major; and
3. Earn at least 24 credits from courses taken at RCSJ.

Each student is ultimately responsible for completing all of the requirements satisfactorily. Students must also complete a graduation petition form available in the Advisement Office.

<table>
<thead>
<tr>
<th>Course Category</th>
<th>A.A.</th>
<th>A.S.*</th>
<th>A.A.S.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education**</td>
<td>45</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1-2***</td>
<td>1-2***</td>
<td>1-2***</td>
</tr>
<tr>
<td>Electives</td>
<td>16-17</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>TOTAL</td>
<td>62-64</td>
<td>61-62</td>
<td>61-62</td>
</tr>
</tbody>
</table>

* Specialized degree programs such as Nursing A.S. and PTA A.A.S. normally require no fewer than 20 semester hours or the equivalent in general education classes. Additional credits may be required by accrediting agencies for specialized programs.

** Refer to General Education Requirements on page 146.

*** One course in general physical education is required.

Source: Rowan College of South Jersey Board of Trustee Policy

General Education Electives

See pages 85 and 86 for courses that may be used as general education electives at Rowan College of South Jersey and that have been approved for statewide transfer to four-year institutions.
### Programs of Study

#### Business Studies

<table>
<thead>
<tr>
<th>Program</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>A.A.S. 10</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>A.A.S. 12</td>
</tr>
<tr>
<td>Online Business Administration</td>
<td>A.S. 13</td>
</tr>
<tr>
<td>Business Administration</td>
<td>A.S. 14</td>
</tr>
<tr>
<td>Computer Graphic Arts: Game/Interactive Design</td>
<td>A.A.S. 16</td>
</tr>
<tr>
<td>Computer Graphic Arts: Print Design Option</td>
<td>A.A.S. 18</td>
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<tr>
<td>Computer Information Systems</td>
<td>A.S. 20</td>
</tr>
<tr>
<td>Online Digital Marketing</td>
<td>A.A.S. 21</td>
</tr>
<tr>
<td>Digital Marketing</td>
<td>A.A.S. 22</td>
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#### Nursing and Health Professions

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<tr>
<td>Certified Clinical Medical Assistant</td>
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<td>Health Science</td>
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<td>Diagnostic Medical Sonography</td>
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<td>Health Science — Nursing</td>
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<td>Nursing and Health Professions — Selective Admissions</td>
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<td>Diagnostic Medical Sonography</td>
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<td>Art Option+</td>
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<td>Digital Photography Option+</td>
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<td>Radio, Television and Film Option</td>
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<td>Social Work Option+</td>
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<td>Theatre, Dance Option</td>
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#### Law and Justice

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<td>Certificate*</td>
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#### Science, Technology, Engineering and Mathematics (STEM)

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<td>Pre-Veterinary Medicine Option</td>
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#### Certificates of Achievement

(Formerly Professional Development Certificates)

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<td>Business Software Tools</td>
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<td>Certified Clinical Medical Assistant (CCMA)</td>
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<td>Civil Engineering Technologies</td>
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<td>Computer Graphic Arts: Game/Interactive Design</td>
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<td>Computer Graphic Arts: Print Design</td>
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<td>Equine Science</td>
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<td>Land Surveying</td>
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<td>Management</td>
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<tr>
<td>Technology Help Desk Support</td>
<td>28</td>
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<tr>
<td>Website Development</td>
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* Additional information is available at [RCSJ.edu/Certificates](https://RCSJ.edu/Certificates)

+ Degree can be earned completely online
Accounting

[AAS-ACT; CIP Code 520302]

**Associate in Applied Science (A.A.S.) — Career**

The goal of this program is to provide basic accounting knowledge and skills for a career in the accounting field.

**Program Learning Outcomes**

Students who have completed the program will be able to:
- Interpret, analyze and communicate financial and managerial information for decision-making purposes
- Understand and create financial statements in accordance with generally accepted accounting principles
- Demonstrate computer literacy and competency with accounting spreadsheet applications
- Meet qualifications for entry-level positions in accounting or upgrade one’s professional competence

**Program Notes**

Students who wish to continue their education at a four-year institution should make an appointment with an advisor to discuss changing their major to the Business Administration transfer program.

**Contact Person**

Diane Trace, Assistant Professor
Coordinator, Business Studies
dtrace@rcsj.edu

**Employment Opportunities**

This program provides students with a concentration in accounting along with a variety of courses necessary for entry-level positions as an accounting clerk in areas such as accounts payable, accounts receivable or payroll, as well as employment as a full-charge bookkeeper performing a range of basic financial duties.

**Advisement**

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.
Accounting
[COA-CAAT; CIP Code 520302]

Certificate of Achievement

This certificate program is designed to provide an understanding of the theory and application of accounting. A Certificate of Achievement also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.

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<tr>
<th>Core Courses</th>
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<tr>
<td>BUS 102  Accounting I</td>
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<tr>
<td>BUS 103  Accounting II</td>
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</tr>
<tr>
<td>CIS 120  Spreadsheets – Excel</td>
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<tr>
<td>BUS 207  Accounting Information Systems or</td>
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<tr>
<td>BUS 206  Federal Income Taxes or</td>
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</tr>
<tr>
<td>BUS 106  Managerial Accounting</td>
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<tr>
<td>BUS 104  Personal and Professional Branding</td>
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<td><strong>TOTAL CREDITS:</strong></td>
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Automotive Technology

[ AAS-AUT; CIP Code 470604 ]

Associate in Applied Science (A.A.S.) — Career
The goal of this program is to provide graduates with theory and practice through classroom study and internships, to qualify for immediate employment in the automotive industry or to transfer to a four-year automotive management program.

Program Learning Outcomes
Students who have completed the program will be able to:
• Safely and competently work in an automotive repair facility
• Understand all eight ASE areas of automotive technology regardless of manufacturer. These systems include but are not limited to: electrical, brakes, steering, power-train controls and automatic transmissions
• Diagnose and fix all major automotive systems
• Demonstrate social skills and a high level of professionalism

Special Program Admission Information
Students must be accepted into the program prior to registering for any AUT courses. Please contact the Office of Admissions for an Admission Packet.

Program Notes
The Automotive Technology Educational Training Program, is a cooperative agreement between the College and the Gloucester County Institute of Technology. Automotive Technology is a full-time, two-year curriculum composed of five, 20-week semesters. Alternating 10-week sessions of classroom instruction and paid dealership internships provide theory and practice that is necessary for a career in the automotive industry. Visit gloucesterasset.com for program and cooperative education work experience information and pct.edu for transfer information.

1 A 10-week internship with a dealership is required as a prerequisite to the subsequent semester.

Automotive Technology is a selective admission program with a customized admission schedule which accommodates alternating 10-week semesters and cooperative educational work experiences.

Contact Persons
Jeffrey Silvestri, Instructor, Automotive Technology Program
jsilvest@rcsj.edu

Edward Blaetz, Instructor, Automotive Technology Program
eblaetz@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

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<td>AUT 107</td>
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<td>ENG 101</td>
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<td>AUT 103</td>
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<td>HIS 101</td>
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<td>PHY 101</td>
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<td>PSY 101</td>
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<td>CEP 208</td>
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TOTAL MINIMUM CREDITS: 60
Online Business Administration
[AS-BUS; CIP Code 520201]

Associate in Science (A.S.)

The Online Business Administration Program provides accelerated coursework introducing students to a broad overview of business options while preparing them for transfer to a four-year institution. The curriculum meets the requirements of the first two years of study at most colleges and universities. Participants in this program will be enrolled in cohorts to encourage support and collaborations. Courses will be scheduled together in seven- or five-week blocks for the duration of the program. Typically, students will take two courses within each seven-week block. In an average semester, all students will have completed at least 12 credits.

Students enrolled in this program will benefit from:
• An accelerated schedule that will provide for completion within two years
• User-friendly scheduling for those who are working or have other obligations
• Comprehensive online support services

In order to be accepted into this program, students must have completed all foundations classes so that they are prepared to take college-level courses, per the schedule. Prior to beginning any coursework, students will be required to successfully complete a free Online Orientation course. Directions on how to access this course will be provided by one of the program advisors.

Program Learning Outcomes
Students who have completed the program will be able to:
• Apply and integrate functional business knowledge to interpret financial information and other business-related situations
• Utilize technology to capture, analyze and communicate information that supports business processes and decision-making
• Explain economic, legal and social frameworks in which business operates
• Analyze ethical conduct and diversity in a global business environment

Program Notes
1 Students transferring to Rowan University, Rohrer College of Business should choose PSY 101 General Psychology or SOC 101 Principles of Sociology. Students transferring to Rutgers University, Camden School of Business should choose BUS 106 Managerial Accounting.
2 Students planning to major in Management Information Systems at Rowan University should choose CIS 110 Fundamentals of Programming.

Advisement
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FIRST YEAR —

<table>
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<tr>
<td>CIS 102 Introduction to Computers</td>
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<tr>
<td>ENG 102 English Composition II</td>
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<td>CIS 110 Fundamentals of Programming</td>
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<td>BUS 102 Accounting I</td>
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<td>BUS 103 Accounting II</td>
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<td>MAT 152 Applied Calculus</td>
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<td>MAT 103 Statistics</td>
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<td>Spring Semester</td>
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TOTAL MINIMUM CREDITS: 60

Advisement

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<tr>
<td>ENG 101 English Composition I</td>
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</tr>
<tr>
<td>CIS 102 Introduction to Computers</td>
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</tr>
<tr>
<td>ENG 102 English Composition II</td>
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<tr>
<td>CIS 110 Fundamentals of Programming</td>
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<tr>
<td>BUS 102 Accounting I</td>
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</tr>
<tr>
<td>BUS 103 Accounting II</td>
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<tr>
<td>MAT 152 Applied Calculus</td>
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<tr>
<td>MAT 103 Statistics</td>
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<tr>
<td>BUS 231 Principles of Management</td>
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<tr>
<td>PSY 101 General Psychology</td>
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<tr>
<td>SOC 101 Principles of Sociology</td>
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<tr>
<td>BUS 106 Managerial Accounting</td>
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<tr>
<td>MAT 103 Statistics</td>
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SECOND YEAR —

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<tr>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>CIS 207 Management Information Systems</td>
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<tr>
<td>BUS 107 Business Law I</td>
<td>3</td>
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<tr>
<td>ECO 101 Principles of Economics I</td>
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<tr>
<td>___ ___ Humanities elective</td>
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<tr>
<td>BUS 221 Principles of Marketing</td>
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<tr>
<td>Spring Semester</td>
<td>3</td>
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<tr>
<td>BUS 108 Business Law II</td>
<td>3</td>
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<tr>
<td>ECO 102 Principles of Economics II</td>
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<tr>
<td>SPE 101 Oral Communications</td>
<td>3</td>
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<tr>
<td>___ ___ Lab Science</td>
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</table>

TOTAL MINIMUM CREDITS: 60

Advisement

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TOTAL MINIMUM CREDITS: 60

Advisement

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<tr>
<td>___ ___ Lab Science</td>
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</tbody>
</table>

TOTAL MINIMUM CREDITS: 60
Business Administration

[AS-BUS; CIP Code 520201]

Associate in Science (A.S.) — Transfer

The Business Administration program gives students a broad introduction to business while preparing them for transfer to a four-year institution. The curriculum meets the requirements of the first two years of study at most colleges and universities.

Program Learning Outcomes

Students who have completed the program will be able to:

• Apply and integrate functional business knowledge to interpret financial information and other business related situations
• Utilize technology to capture, analyze and communicate information that supports business processes and decision-making
• Explain economic, legal and social frameworks in which business operates
• Analyze ethical conduct and diversity in a global business environment

Program Notes

1 Students transferring to Rowan University, Rohrer College of Business should choose PSY 101 General Psychology or SOC 101 Principles of Sociology. Students transferring to Rutgers University – Camden School of Business should choose BUS 106 Managerial Accounting.

2 Students planning to major in Management Information Systems at Rowan University should choose CIS 110 Fundamentals of Programming.

Contact Person

Diane Trace, Assistant Professor
Coordinator, Business Studies
dtrace@rcsj.edu

Employment Opportunities

• Accountants
• Actuaries
• General and Operations Managers
• Financial Analysts
• Sales Agents
• Budget Analysts
• First-line Supervisors
• Buyers and Purchasing Agents
• Sales Managers
• Logistics Managers

Advisement

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FIRST YEAR — Credits

Fall Semester

ENG 101 English Composition I 3
BUS 102 Accounting I 4
CIS 102 Introduction to Computers 4
MAT 152 Applied Calculus 4
15

Spring Semester

ENG 102 English Composition II 3
SPE 101 Oral Communication 3
Humanities elective 3
BUS 103 Accounting II 4
13

SECOND YEAR — Credits

Fall Semester

MAT 103 Statistics 3
BUS 231 Principles of Management1 or 3
PSY 101 General Psychology or
SOC 101 Principles of Sociology or
BUS 106 Managerial Accounting
ECO 101 Principles of Economics I 3
BUS 221 Principles of Marketing 3
BUS 107 Business Law I 3
15

Spring Semester

CIS 207 Management Information Systems 3
CIS 110 Fundamentals of Programming2 or 4
General Education elective
ECO 102 Principles of Economics II 3
BUS 108 Business Law II 3
Lab Science elective 4
17

TOTAL MINIMUM CREDITS: 60
Business Software Tools  
[COA-CABT; CIP Code 110201]

Certificate of Achievement  
This certificate program is designed to strengthen students’ business software application skills that are utilized in most work environments in today’s organizations. A Certificate of Achievement also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CIS 102 Introduction to Computers</td>
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</tr>
<tr>
<td>CIS 120 Spreadsheets – EXCEL</td>
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</tr>
<tr>
<td>CIS 210 Relational Databases</td>
<td>4</td>
</tr>
<tr>
<td>BUS 207 Accounting Information Systems or</td>
<td>3</td>
</tr>
<tr>
<td>CIS ___ CIS elective</td>
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<tr>
<td>BUS 104 Personal and Professional Branding</td>
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</table>

**TOTAL CREDITS:** 16
Business Studies

Computer Graphic Arts: Game/Interactive Design
[AAS-CGA-GID; CIP Code 110803]

Associate in Applied Science (A.A.S.) — Career

The Computer Graphic Arts (CGA) Game/Interactive Design Option is a hands-on, software-intensive program designed to provide students with the knowledge and skills required in the field of Game/Interactive Design. This program includes hands-on instruction using the most popular software packages used in the industry.

Program Learning Outcomes

Students who have completed the program will be able to:
- Use animation and motion graphics software tools at a highly competent level
- Understand the different types of gaming technologies available
- Understand how to design and develop a basic game
- Understand how to design and develop websites
- Understand how to create graphics for screen use

Program Notes

Computer Graphic Arts is a Windows-based academic program. Students complete studio hours for each CGA course, requiring extended hours in the computer lab beyond class time.

Contact Person
Mary Malinconico, Associate Professor
Coordinator, Computer Graphic Arts
mmalinconico@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CGA 103</td>
<td>Design, Color and Type</td>
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<tr>
<td>CGA 115</td>
<td>Foundations of Computer Graphic Arts</td>
<td>3</td>
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<tr>
<td>ART 131</td>
<td>Introduction to Digital Photography</td>
<td>3</td>
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<tr>
<td>ENG 101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 101</td>
<td>Concepts of Mathematics</td>
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Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CGA 118</td>
<td>Introduction to Animation</td>
<td>3</td>
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<tr>
<td>CGA 130</td>
<td>Video and Audio Editing</td>
<td>3</td>
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<tr>
<td>CGA 120</td>
<td>Introduction to Electronic Publishing and Typography</td>
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<td>ENG 102</td>
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SECOND YEAR —

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CGA 212</td>
<td>Screen Graphics</td>
<td>3</td>
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<tr>
<td>CGA 215</td>
<td>Electronic Illustration I</td>
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<td>CGA 217</td>
<td>Electronic Image Processing</td>
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<tr>
<td>COM 104</td>
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<tr>
<td>CEP 211</td>
<td>Cooperative Education Work Experience</td>
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Spring Semester

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ART 231</td>
<td>Intermediate Digital Photography</td>
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<tr>
<td>CGA 219</td>
<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td>CGA 218</td>
<td>Game and Interactive Authoring</td>
<td>3</td>
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<td></td>
<td>General Education elective</td>
<td>3</td>
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<tr>
<td></td>
<td>General Education elective</td>
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</table>

TOTAL MINIMUM CREDITS: 60
Computer Graphic Arts: Game/Interactive Design

[COA-CAGD; CIP Code 110803]

Certificate of Achievement

This certificate program is designed to provide entry-level knowledge of job skills necessary in the graphic arts industry. The program includes animation, web design, preparation of graphics for screen display and video editing. A Certificate of Achievement also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.

Required Core Courses | Credits
--- | ---
CGA 103 Design, Color and Type | 3
CGA 118 Introduction to Animation | 3
CGA 130 Video/Audio Editing | 3
CGA 212 Screen Graphics | 3
CGA 218 Game and Interactive Authoring | 3
CGA 219 Web Design | 3

TOTAL CREDITS: 18
Business Studies

Computer Graphic Arts:
Print Design Option

[AAS-CGA-PRT; CIP Code 110803]

**Associate in Applied Science (A.A.S.) — Career**

Computer Graphic Arts (CGA) Print Design is a hands-on, software-intensive program designed to provide students with the knowledge and skills required in the field of Print Design. This program includes hands-on instruction using the most popular software packages used in the industry.

**Program Learning Outcomes**

Students who have completed the program will be able to:
- Use publishing software tools at a highly competent level
- Understand the different types of printing technologies available to produce documents
- Understand how to prepare and send documents to a printer for production
- Understand and be able to identify current and future trends in printing

**Program Notes**

CGA is a Windows-based academic program. Students complete studio hours for each CGA course, requiring extended hours in the computer lab beyond class time.

**Contact Person**

Mary Malinconico, Associate Professor
Coordinator, Computer Graphic Arts
mmalinconico@rcsj.edu

**Advisement**

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**FIRST YEAR —**

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<th>Semester</th>
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<tr>
<td>Fall</td>
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<tr>
<td>CGA 103</td>
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<td>CGA 115</td>
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<td>ART 105</td>
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<td>ENG 101</td>
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<td>ART 131</td>
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<td>CGA 130</td>
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<td>CGA 219</td>
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<tr>
<td>ART 201</td>
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<td>ART 231</td>
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</table>

**TOTAL MINIMUM CREDITS:**

60
Computer Graphic Arts: Print Design

[COA-CAPD; CIP Code 110803]

Certificate of Achievement

The goal of this certificate program is designed to provide entry-level knowledge of job skills necessary in the graphic arts industry. The program includes principles of design, elements of design, designing for print, illustrations and photo processing. A Certificate of Achievement also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.

Required Core Courses                     Credits
CGA 103  Design, Color and Type            3
CGA 120  Introduction to Electronic Publishing and Typography 3
CGA 220  Advanced Electronic Publishing    3
CGA 215  Electronic Illustration I         3
CGA 217  Electronic Image Processing       3
CGA 219  Web Design                        3

TOTAL CREDITS:                             18
Computer Information Systems

[AS-CIS; CIP Code 110101]

Associate in Science (A.S.) — Transfer

The transfer program in Computer Information Systems (CIS) provides a strong foundation in both business studies and information systems. The concepts of information systems and the hands-on experience gained in the design, development and implementation of business applications provides this foundation. Students will be prepared to transfer to a four-year college, begin a career working in the information systems field or apply their knowledge in programming, web development and/or computer technology in an organization.

Program Learning Outcomes

Students who have completed the program will be able to:
• Demonstrate basic knowledge of information systems principles and the fundamental skills of business, programming and application software in a business computing environment
• Communicate effectively and professionally with a broad range of audiences
• Analyze a problem, critically investigate and define computing requirements appropriate to its solution
• Demonstrate knowledge of programming processes including planning, writing, testing, executing and debugging
• Demonstrate knowledge of web and database design, development and management in a business information environment

Employment Opportunities

• Computer Information Systems Managers
• Computer Systems Analysts
• Computer User Support Specialists
• Information Security Analysts
• Software Developers
• Information Technology Project Managers
• Web Developers

Contact Person

Irena Skot, Instructor
Coordinator, Computer Information Systems
iskot@rcsj.edu

Advisement

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<tr>
<td>ENG 102 English Composition II</td>
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<td>MAT 152 Applied Calculus</td>
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<tr>
<td>CIS 151 Web Development – HTML/CSS</td>
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<tr>
<td>CIS 210 Relational Databases</td>
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<td>ECO 102 Principles of Economics II</td>
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<td>BUS 107 Business Law or</td>
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<td>BUS 231 Principles of Management or</td>
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<td>BUS 221 Principles of Marketing</td>
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<td>CIS 264 Database Applications Development</td>
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TOTAL MINIMUM CREDITS: 60
Online Digital Marketing
[AAS-DMK; CIP Code 421501]

Associate in Applied Science (A.A.S.) — Career

The goal of this career program is to provide the basic knowledge and skills necessary for success in the fields of marketing in our digital world. This program prepares students with tools to develop and implement contemporary marketing initiatives within any type of organization.

Participants in this program will be enrolled in seven- or five-week blocks for the duration of the program. Typically, students will take two courses within each seven-week block so that they can complete the program in two years. In an average semester, all students will have completed at least 12 credits.

Students in this program will benefit from:
• An accelerated schedule that will provide for completion within two years
• User-friendly scheduling for those who are working or have other obligations
• Comprehensive online support service
• Seamless transfer to regional colleges and universities

Prior to beginning any coursework, students will be required to successfully complete a free Online Orientation course. Directions on how to access this course will be provided by one of the program advisors.

Program Learning Outcomes

Students who have completed the program will be able to:
• Understand, apply and integrate digital marketing strategies
• Communicate effectively and professionally with a variety of audiences
• Utilize technology to capture, present and analyze information that supports general business, and especially marketing, processes

Program Notes

Students who wish to continue their education at a four-year institution should make an appointment with an advisor to discuss changing their major to the Business Administration transfer program.

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR — Credits

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>CIS 102 Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td>CIS 151 Web Development – HTML/CSS</td>
<td>4</td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102 English Composition II</td>
<td></td>
</tr>
<tr>
<td>MAT 103 Statistics</td>
<td></td>
</tr>
<tr>
<td>BUS 221 Principles of Marketing</td>
<td></td>
</tr>
<tr>
<td>CIS 154 Advanced Web Development</td>
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<table>
<thead>
<tr>
<th>Summer Semester</th>
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<td>Program elective1</td>
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<tr>
<td>General Education elective</td>
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<table>
<thead>
<tr>
<th>SECOND YEAR —</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
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<tr>
<td>SPE 101 Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUS 102 Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS 224 Social Media/Internet Marketing</td>
<td>3</td>
</tr>
<tr>
<td>COM 104 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>Winter Semester</td>
<td></td>
</tr>
<tr>
<td>BUS 231 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>CIS 207 Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS 225 Principles of Advertising</td>
<td>3</td>
</tr>
<tr>
<td>CEP 211 Cooperative Education</td>
<td></td>
</tr>
<tr>
<td>Humanities or Social Science elective</td>
<td></td>
</tr>
<tr>
<td>TOTAL MINIMUM CREDITS:</td>
<td>60</td>
</tr>
</tbody>
</table>

1 Program Elective (select one)

- ART 141 Introduction to Photoshop
- BUS 103 Accounting II
- BUS 107 Business Law I
- BUS 241 Business Ethics
- BUS 239 Organizational Behavior
- CGA 115 Foundations of Computer Graphic Arts
- CIS 120 Spreadsheets – Excel
- COM 220 Mass Media

visit us online at RCSJ.edu
Digital Marketing

[AAS-DMK; CIP Code 421501]

 Associate in Applied Science (A.A.S.) — Career

The goal of this career program is to provide the basic knowledge and skills necessary for success in the fields of marketing in our digital world. This program prepares students with tools to develop and implement contemporary marketing initiatives within any type of organization.

Program Learning Outcomes

Students who have completed the program will be able to:
• Understand, apply and integrate digital marketing strategies
• Communicate effectively and professionally with a variety of audiences
• Utilize technology to capture, present and analyze information that supports general business, and especially marketing, processes

Program Notes

Students who wish to continue their education at a four-year institution should make an appointment with an advisor to discuss changing their major to the Business Administration transfer program

1 Program Elective (select one)

ART 141 Introduction to Photoshop
BUS 103 Accounting II
BUS 107 Business Law I
BUS 241 Business Ethics
BUS 239 Organizational Behavior
CGA 115 Foundations of Computer Graphic Arts
CIS 120 Spreadsheets – Excel
COM 220 Mass Media

Contact Person
Diane Trace, Assistant Professor
Coordinator, Business Studies
dtrace@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
</tr>
<tr>
<td>ENG 101 English Composition I</td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
</tr>
<tr>
<td>CIS 102 Introduction to Computers</td>
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<tr>
<td>CIS 151 Web Development – HTML/CSS</td>
</tr>
<tr>
<td>MAT 103 Statistics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Semester</td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
</tr>
<tr>
<td>BUS 221 Principles of Marketing</td>
</tr>
<tr>
<td>CIS 154 Advanced Web Development</td>
</tr>
<tr>
<td>Program elective1</td>
</tr>
<tr>
<td>General Education elective</td>
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</table>

TOTAL MINIMUM CREDITS: 15–16

SECOND YEAR —

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
</tr>
<tr>
<td>SPE 101 Oral Communications</td>
</tr>
<tr>
<td>BUS 102 Accounting I</td>
</tr>
<tr>
<td>BUS 224 Social Media and Internet Marketing</td>
</tr>
<tr>
<td>BUS 231 Principles of Management</td>
</tr>
<tr>
<td>COM 104 Business Communication</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credit</th>
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<tbody>
<tr>
<td>Spring Semester</td>
</tr>
<tr>
<td>Humanities or Social Science elective</td>
</tr>
<tr>
<td>CIS 207 Management Information Systems</td>
</tr>
<tr>
<td>BUS 225 Principles of Advertising</td>
</tr>
<tr>
<td>CEP 211 Cooperative Education Work Experience</td>
</tr>
</tbody>
</table>

12

TOTAL MINIMUM CREDITS: 60
Digital Marketing  
[COA-CADM; CIP Code 421501]  
Certificate of Achievement  
This certificate program is designed to provide an understanding of the use of digital marketing in today’s organizations. A Certificate of Achievement also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.  

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 221 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 224 Social Media and Internet Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 225 Principles of Advertising</td>
<td>3</td>
</tr>
<tr>
<td>CIS 151 Web Development – HTML/CSS</td>
<td>4</td>
</tr>
<tr>
<td>CIS 154 Advanced Web Development</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS:</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Management  
[COA-CAMT; CIP Code 421501]  
Certificate of Achievement  
This certificate program is designed to provide a foundation in human resource management that can be applied to any role in an organization. A Certificate of Achievement also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.  

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 231 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 237 Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 239 Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BUS 243 Organizational Development</td>
<td>3</td>
</tr>
<tr>
<td>BUS 241 Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 104 Personal and Professional Branding</td>
<td>1</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS:</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>
Online Human Resource Management  
[AS-HRM; CIP Code 521005]  

**Associate in Science (A.S.) — Transfer**  
The goal of this program is to provide students with a broad introduction to human resources and the business context within which the function will operate, while preparing them for transfer to a four-year institution. The curriculum meets the requirements of the first two years of study for many colleges and universities.  
Participants in this program will be enrolled in seven- or five-week blocks for the duration of the program. Typically, students will take two courses within each seven-week block so that they can complete the program in two years. In an average semester, all students will have completed at least 12 credits.  

Students in this program will benefit from:  
- An accelerated schedule that will provide for completion within two years  
- User-friendly scheduling for those who are working or have other obligations  
- Comprehensive online support service  
- Seamless transfer to regional colleges and universities  

Prior to beginning any coursework, students will be required to successfully complete a free Online Orientation course. Directions on how to access this course will be provided by one of the program advisors.  

**Program Learning Outcomes**  
Students who have completed the program will be able to:  
- Identify human behavior and how organizations can develop a culture built on the principles of cooperation, support and respect  
- Utilize technology to capture, analyze and communicate information that supports business processes and decision-making  
- Evaluate corporate responsibility, the implications of managers’ and employees’ actions and laws that apply to people and organizations  
- Analyze how organizations can better adapt to their external environments by applying different methods to influence change  

**Contact Person**  
Danielle Morganti, Instructor  
Coordinator, Human Resource Management  
dmorgant@rcsj.edu  

**Advisement**  
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.  

<table>
<thead>
<tr>
<th>First Year —</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
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</tr>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
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<tr>
<td>CIS 102 Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td><strong>Block 1</strong></td>
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</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>BUS 231 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Winter Semester</strong></td>
<td></td>
</tr>
<tr>
<td>BUS 104 Personal and Professional Branding or</td>
<td>1</td>
</tr>
<tr>
<td>HPE ___ Health and Physical Education elective</td>
<td>1–3</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>BUS 102 Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 151 Math for Management</td>
<td>4</td>
</tr>
<tr>
<td><strong>Block 2</strong></td>
<td></td>
</tr>
<tr>
<td>BUS 103 Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Summer Semester</strong></td>
<td></td>
</tr>
<tr>
<td>BUS 237 Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Year —</strong></td>
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<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>BUS 239 Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BUS 241 Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Block 2</strong></td>
<td></td>
</tr>
<tr>
<td>BUS 243 Organizational Development</td>
<td>3</td>
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<tr>
<td>Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Winter Semester</strong></td>
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<tr>
<td>BUS 221 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>CEP 211 Cooperative Education Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>ECO 101 Principles of Economics I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Block 2</strong></td>
<td></td>
</tr>
<tr>
<td>SPE 101 Oral Communications</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Lab Science</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL MINIMUM CREDITS:** 60
Human Resource Management
[AS-HRM; CIP Code 521005]

Associate in Science (A.S.) – Transfer

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• Evaluate corporate responsibility, the implications of managers' and employees' actions and laws that apply to people and organizations
• Analyze how organizations can better adapt to their external environments by applying different methods to influence change

Employment Opportunities

• Human Resource Managers
• Human Resource Specialists
• Human Resource Assistants
• Compensation and Benefits Managers
• Training and Development Managers
• Compliance Managers

Contact Person
Danielle Morganti, Instructor
Coordinator, Human Resource Management
dmorgant@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

Fall Semester
BUS 102  Accounting I 4
CIS 102  Introduction to Computers 4
ENG 101  English Composition I 3
BUS 104  Personal and Professional Branding or 1
HPE ___ Health and Physical Education elective 1–3

12–14

Spring Semester
BUS 103  Accounting II 4
BUS 231  Principles of Management 3
ENG 102  English Composition II 3
MAT 151  Mathematics for Management 4
PSY 101  General Psychology 3

17

SECOND YEAR —

Fall Semester
BUS 237  Human Resource Management 3
BUS 239  Organizational Behavior 3
___ humanities elective 3
___ science elective 4
SPE 101  Oral Communications 3

16

Spring Semester
BUS 221  Principles of Marketing 3
BUS 241  Business Ethics 3
BUS 243  Organizational Development 3
CEP 211  Cooperative Education Work Experience 3
ECO 101  Principles of Economics I 3

15

TOTAL MINIMUM CREDITS: 60
Information Technology

[AAS-CIT; CIP Code 110201]

Associate in Applied Science (A.A.S.) — Career

The Information Technology career program is designed for students who wish to seek employment immediately following graduation. The program includes courses that will provide students with the basic knowledge and skills necessary for success in a variety of computer and web technologies.

Program Learning Outcomes

Students who have completed the program will be able to:

• Demonstrate the knowledge and skills necessary to seek employment as a business programmer, application developer or salesperson of computer software or services
• Communicate effectively and professionally with a broad range of audiences
• Analyze a problem, critically investigate and define computing requirements appropriate to its solution
• Demonstrate knowledge of programming processes including planning, writing, testing, executing and debugging
• Demonstrate knowledge of web and database design, development and management in a business information environment

Contact Person

Irena Skot, Instructor
Coordinator, Computer Information Systems
iskot@rcsj.edu

Advisement

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FIRST YEAR —

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
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</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>English Composition I</td>
</tr>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>CIS 102</td>
<td>Introduction to Computers</td>
</tr>
<tr>
<td>CIS 151</td>
<td>Web Development – HTML/CSS</td>
</tr>
<tr>
<td>MAT 103</td>
<td>Statistics</td>
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<td>17</td>
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</table>

Spring Semester

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
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</thead>
<tbody>
<tr>
<td>ENG 102</td>
<td>English Composition II</td>
</tr>
<tr>
<td>BUS 221</td>
<td>Principles of Marketing</td>
</tr>
<tr>
<td>CIS 110</td>
<td>Fundamentals of Programming</td>
</tr>
<tr>
<td>CIS 120</td>
<td>Spreadsheets – EXCEL</td>
</tr>
<tr>
<td>CIS 154</td>
<td>Advanced Web Development</td>
</tr>
<tr>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

SECOND YEAR —

Fall Semester

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 104</td>
<td>Personal and Professional Branding or</td>
</tr>
<tr>
<td>HPE ___</td>
<td>Health and Physical Education elective</td>
</tr>
<tr>
<td>BUS 224</td>
<td>Social Media and Internet Marketing</td>
</tr>
<tr>
<td>CIS 220</td>
<td>IT Help Desk/Technical Support</td>
</tr>
<tr>
<td>CIS 210</td>
<td>Relational Databases</td>
</tr>
<tr>
<td>CIS 251</td>
<td>Web Programming</td>
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<td></td>
<td>14-16</td>
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</table>

Spring Semester

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>___ ___</td>
<td>Humanities or Social Science elective</td>
</tr>
<tr>
<td>CIS 207</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>CIS 264</td>
<td>Database Applications</td>
</tr>
<tr>
<td>CEP 211</td>
<td>Cooperative Education Work Experience</td>
</tr>
<tr>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

TOTAL MINIMUM CREDITS: 60
Technical Studies — Business Track

[AAS-TEC; CIP Code 159999]

Associate in Applied Science (A.A.S.) — Career

The Technical Studies — Business Track degree program is designed for individuals who wish to validate their prior apprenticeship, corporate, industrial or military training and receive college credits for these experiences so that they may complete their degrees. After a formal assessment of this prior learning, technical credits will be awarded.

Program Learning Outcomes

Students who have completed the program will be able to:

• Effectively communicate technical concepts in both written and oral form
• Identify resources, obtain and critically evaluate information
• Demonstrate an understanding of ethical and professional guidelines and policies

Program Notes

1 Technical electives may be selected from any of the following areas: Business Studies — BUS; Computer Information Systems — CIS; Computer Graphic Arts — CGA
2 Technical Credits: College credit will be awarded for military or apprenticeship training programs in the building and construction trades, based upon the American Council on Education (ACE) review and evaluation of the program and their recommendations for awarding academic credit for successful completion of those programs. These credits will be placed on the student’s transcripts when documentation of satisfactory completion is presented by an official of the apprenticeship program and after the student matriculates into a degree program, and has completed 25 credits of course work at Rowan College of South Jersey. College credits for specialized certifications obtained in a corporate or industrial setting may also be awarded, based on the credentials obtained and the documentation provided. From 3 to 25 credits may be awarded, based on the ACE review and the recommendations provided by Student Services. Students with less than 25 credits may select credits from the Technical electives listed above.

Employment Opportunities

• General and operations manager
• Industrial production manager
• First-line supervisor
• Construction manager
• Purchasing manager

Advisement

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FIRST YEAR — Credits
Fall Semester
CIS 102 Introduction to Computers 4
ENG 101 English Composition I 3
MAT ___ Mathematics elective or 3–4
___ ___ Science elective 4
___ ___ Technical elective1 14–15
Spring Semester
ENG 102 English Composition II 3
___ ___ General Education elective 3–4
___ ___ Technical elective1 9–11

SECOND YEAR — Credits
Fall Semester
SPE 101 Oral Communications 3
___ ___ Technical elective1 3–4
6–7
Spring Semester
___ ___ Social Science or Humanities elective 3
___ ___ Technical elective1 3–4
6–7

Apply up to 25 Technical Credits, as per Articulation Agreement:2 25

TOTAL MINIMUM CREDITS: 60
## Technology Help Desk Support

[COA-CATS; CIP Code 110201]

**Certificate of Achievement**

This certificate program is designed to provide a foundation of software skills utilized in a help desk technician role. A Certificate of Achievement also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.

<table>
<thead>
<tr>
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<th>Credits</th>
</tr>
</thead>
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</tr>
<tr>
<td>CIS 120 Spreadsheets – EXCEL</td>
<td>4</td>
</tr>
<tr>
<td>CIS 210 Relational Databases</td>
<td>4</td>
</tr>
<tr>
<td>CIS 220 IT Technical/Help Desk Support</td>
<td>3</td>
</tr>
<tr>
<td>CIS ___ CIS elective or</td>
<td></td>
</tr>
<tr>
<td>CEP ___ Co-Op Education</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS:</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

## Website Development

[COA-CAWD; CIP Code 110801]

**Certificate of Achievement**

This certificate program is designed to prepare graduates to qualify for the entry-level and/or advanced positions in the field of website development. Graduates could be employed in positions with job titles such as Web designer, Web developer or Web editor. A Certificate of Achievement also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 151 Web Development – HTML/CSS</td>
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</tr>
<tr>
<td>CIS 154 Advanced Web Development</td>
<td>3</td>
</tr>
<tr>
<td>CGA 212 Screen Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CIS 110 Fundamentals of Programming</td>
<td>4</td>
</tr>
<tr>
<td>CIS 251 Web Programming</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS:</strong></td>
<td><strong>17</strong></td>
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</tbody>
</table>
**Arts and Sciences**

[AA-ASC; CIP Code 240101]

**Associate in Arts (A.A.) — Transfer**

This program provides the general education foundation necessary for a variety of disciplines and is designed for students who are planning to transfer to complete a baccalaureate degree. Using available elective credits, students may focus on a specific field of study or explore a variety of academic areas. This degree can also be completed fully online.

**Program Learning Outcomes**

- Communicate effectively in writing and orally
- Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives
- Analyze information and use critical thinking to make decisions and solve problems

**Program Notes**

1. Students should contact their advisors to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites.
2. Modern Language elective:
   - ASL 101 American Sign Language I
   - CHI 101 Elementary Chinese: Mandarin
   - FRE 101 Elementary French I
   - GER 101 Elementary German I
   - ITA 101 Elementary Italian I
   - SPA 101 Elementary Spanish I
3. Students may substitute another history elective for these courses. Please see your academic advisor for additional details.

Students may also be advised to contact their prospective transfer college to confirm which electives will be accepted.

**Advisement**

Current students please visit RCS.J.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCS.J.edu/gc/Appointments to learn more about how to get started.

**FIRST YEAR —**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MAT __ Mathematics elective¹</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>SOC 101 Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 101 Art Appreciation I or</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MUS 101 Music Appreciation I</td>
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<tr>
<td></td>
<td>HIS 101 History of Western Civilization I²</td>
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**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ENG 102 English Composition II</td>
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<tr>
<td>MAT __ Mathematics elective¹</td>
<td>3-4</td>
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<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Modern Language elective²</td>
<td>3</td>
</tr>
<tr>
<td>HIS 102 History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HPE __ Health and Physical Education elective</td>
<td>1-3</td>
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**TOTAL MINIMUM CREDITS:** 15–16

**SECOND YEAR —**

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<th>Fall Semester</th>
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<td>Lab Science elective¹</td>
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<tr>
<td>Social Science elective¹</td>
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<tr>
<td>ENG __ English elective¹</td>
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<tr>
<td>Global and Cultural Awareness elective¹</td>
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<td>General Education elective¹</td>
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<tr>
<th>Spring Semester</th>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>SPE 101 Oral Communication</td>
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</tr>
<tr>
<td>Lab Science elective¹</td>
<td>4</td>
<td></td>
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<tr>
<td>Social Science elective¹</td>
<td>3</td>
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</tr>
<tr>
<td>PHI 101 Introduction to Philosophy</td>
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**TOTAL MINIMUM CREDITS:** 16–19

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**visit us online at RCS.J.edu**
## Arts and Sciences: Art Option

**[AA-ASC-ART; CIP Code 240101]**

### Associate in Arts (A.A.) — Transfer

This program provides the general education foundation necessary for students who are planning to transfer to complete a baccalaureate degree. Using available elective credits students will focus on Art as a specific field of study.

### Program Learning Outcomes

Students who have completed the program will be able to:

- Communicate effectively in writing and orally
- Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives
- Analyze information and use critical thinking to make decisions and solve problems
- Demonstrate a basic proficiency in an art medium and an aesthetic sense of art's relation to culture

### Program Notes

1. Students should contact their advisors to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites.
2. Students may substitute another history elective for these courses. Please see your academic advisor for additional details.

### Program Electives

- ART 105 Drawing I
- ART 108 Drawing and Painting I
- ART 114 Painting I
- ART 116 Color Theory
- ART 131 Introduction to Digital Photography
- ART 202 Art History II
- ART 231 Intermediate Digital Photography

### Contact Person

Eoin Kinnarney, Associate Professor, Art
"ekinnarney@rcsj.edu"

### Advisement

Current students please visit [RCSJ.edu/gc/Advisement](http://RCSJ.edu/gc/Advisement) to schedule an appointment with your academic advisor. Future students please visit [RCSJ.edu/gc/Appointments](http://RCSJ.edu/gc/Appointments) to learn more about how to get started.

### FIRST YEAR — Credits

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<tr>
<th>Semester</th>
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<tr>
<td>Spring</td>
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</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
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<tr>
<td>MAT ___ Mathematics elective¹</td>
<td>3–4</td>
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<tr>
<td>___ ___ Global and Cultural Awareness elective</td>
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<td>HPE ___ Health and Physical Education elective</td>
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<tr>
<td>ART 201 Art History I</td>
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### SECOND YEAR —

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<td>SOC 101 Principles of Sociology</td>
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<tr>
<td>ENG ___ English elective</td>
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<td>ART 202 Art History II</td>
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<td>Spring</td>
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<tr>
<td>SPE 101 Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Lab Science elective¹</td>
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<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHI 101 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>ART ___ Program elective – Art²</td>
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</table>

**TOTAL MINIMUM CREDITS:** 60
Arts and Sciences: 
Communications Option 
[AA-ASC-COM; CIP Code 240101]

Associate in Arts (A.A.) — Transfer

This program provides the general education foundation necessary for students who are planning to transfer to complete a baccalaureate degree. Using available elective credits, students will focus on Communications as a specific field of study. This degree can also be completed fully online.

Program Learning Outcomes

Students who have completed the program will be able to:

• Communicate effectively in writing and orally
• Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives
• Analyze information and use critical thinking to make decisions and solve problems
• Demonstrate a basic proficiency in creative writing, journalism or media

Program Notes

1 Students should contact their advisors to clarify four-year degree transfer requirements and refer to the College catalog for course pre-requisites.

2 Students intending to transfer to Rowan University should take COM 205 Feature Writing and COM 220 Mass Media as program option electives.

3 MAT 101 Concepts of Mathematics
   MAT 102 Survey of Mathematics
   MAT 110 Algebra and Trigonometry suggested

Program Electives

COM 104 Business Communications
COM 105 Technical and Scientific Writing
COM 140 Internet Communications and Research
COM 150 Argumentative and Persuasive Writing
COM 205 Feature Writing
COM 206 Creative Writing: Non Fiction
COM 207 Creative Writing: Fiction
COM 208 Creative Writing: Poetry
COM 214 Journalism Workshop I
COM 220 Mass Media

Contact Person

Lori Joyce, Professor, English
ljoyce@rcsjc.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR — Credits

Fall Semester

ENG 101 English Composition I 3
MAT ___ Mathematics elective⁰ 3–4
PSY 101 Introduction to Psychology 3
ART 101 Art Appreciation I or
MUS 101 Music Appreciation I 3
HIS 101 History of Western Civilization I 3

Spring Semester

ENG 102 English Composition II 3
MAT 103 Statistics 3
SOC 101 Principles of Sociology 3
HIS 102 History of Western Civilization II 3
COM ___ Program Option elective² 3

SECOND YEAR —

Fall Semester

___ ___ Lab Science elective¹ 4
ENG 103 Survey of World Literature 3
COM 201 Journalism I 3
___ ___ Global and Cultural Awareness¹ 3
COM ___ Program Option elective² 3

Spring Semester

SPE 101 Oral Communication 3
___ ___ Lab Science elective¹ 4
PHI 101 Introduction to Philosophy 3
HPE ___ Health and Physical Education elective 1–3
COM ___ Program Option elective² 3

TOTAL MINIMUM CREDITS: 60
Arts and Sciences:  
Digital Photography Option  
[AA-ASC-PHO; CIP Code 240101]

**Associate in Arts (A.A.) — Transfer**

This program provides the general education foundation necessary for students who are planning to transfer to complete a baccalaureate degree. Using available elective credits students will focus on Digital Photography as a specific field of study.

**Program Learning Outcomes**

Students who have completed the program will be able to:
- Communicate effectively in writing and orally
- Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives
- Analyze information and use critical thinking to make decisions and solve problems
- Demonstrate a basic proficiency in digital photography and an aesthetic sense of art

**Program Notes**

1 Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites

Students must complete all Arts and Science (A.A.) required courses as indicated.

2 The art elective may be selected from the following courses.

**Program Electives**

ART 101 Art Appreciation I  
ART 105 Drawing I  
ART 108 Drawing and Painting I  
ART 114 Painting I  
ART 116 Color Theory  
ART 201 Art History I  
ART 202 Art History II  
ART 208 Drawing and Painting II

**FIRST YEAR —**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>ENG 101</td>
<td>English Composition I</td>
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<tr>
<td>MAT ___</td>
<td>Mathematics elective¹</td>
<td>3–4</td>
</tr>
<tr>
<td>HIS ___</td>
<td>History elective</td>
<td>3</td>
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<tr>
<td>ART ___</td>
<td>Art elective²</td>
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<tr>
<td>ART 121</td>
<td>History of Photography</td>
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15–16

<table>
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<th>Course Title</th>
<th>Credits</th>
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<td>Spring</td>
<td>ENG 102</td>
<td>English Composition II</td>
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<td></td>
<td>MAT ___</td>
<td>Mathematics elective¹</td>
<td>3–4</td>
</tr>
<tr>
<td></td>
<td>HIS ___</td>
<td>History elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 131</td>
<td>Introduction to Digital Photography</td>
<td>3</td>
</tr>
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<td></td>
<td>___ ___</td>
<td>Global and Cultural Awareness elective¹</td>
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<td>HPE ___</td>
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16–18

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<tr>
<td>___ ___</td>
<td>Lab Science elective¹</td>
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<tr>
<td>SOC 101</td>
<td>Principles of Sociology</td>
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<td>ENG ___</td>
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<tr>
<td>ART 141</td>
<td>Introduction to Photoshop</td>
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</table>

13

<table>
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<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Spring</td>
<td>SPE 101</td>
<td>Oral Communication</td>
<td>3</td>
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<td></td>
<td>___ ___</td>
<td>Lab Science elective¹</td>
<td>4</td>
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<tr>
<td></td>
<td>PSY 101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHI 101</td>
<td>Introduction to Philosophy</td>
<td>3</td>
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<tr>
<td></td>
<td>ART 231</td>
<td>Intermediate Digital Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

16

**TOTAL MINIMUM CREDITS:** 60

**Contact Person**

Eoin Kinnarney, Associate Professor, Art  
eoin.kinnarney@rcsj.edu

**Advisement**

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.
Digital Photography

[COA-CADP; CIP Code 090702]

Certificate of Achievement

The Digital Photography Professional Development Certificate is designed to provide students necessary background and skills to work as photographers. A Certificate of Achievement also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 131 Introduction to Digital</td>
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<td>ART 141 Introduction to Photoshop</td>
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<tr>
<td>ART 231 Intermediate Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 121 History of Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 116 Color Theory</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL CREDITS:</td>
<td>15</td>
</tr>
</tbody>
</table>
Arts and Sciences: English Option
[AA-ASC-ENG; CIP Code 240101]

Associate in Arts (A.A.) — Transfer
This program provides the general education foundation necessary for students who are planning to transfer to complete a baccalaureate degree. Using available elective credits students will focus on English as a specific field of study.

Program Learning Outcomes
Students who have completed the program will be able to:
• Communicate effectively in writing and orally
• Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives
• Analyze information and use critical thinking to make decisions and solve problems
• Demonstrate a basic understanding of various concepts in Literature or Film studies

Program Notes
1 Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites.
2 Students may substitute another history elective for these courses. Please see your academic advisor for additional details.

Program Electives
COM 206 Creative Writing: Nonfiction
COM 207 Creative Writing: Fiction
COM 208 Creative Writing: Poetry
ENG 107 Principles of English Grammar
ENG 203 Literature by Women
ENG 213 Non-Western Literature
ENG 215 Immigrant Voices in American Literature
ENG 222 Romantic Era in American Literature
ENG 225 20th Century American Authors
ENG 235 American Film Classics
ENG 236 Contemporary American Film
ENG 237 American Horror Literature: Poe to King
ENG 238 Films of Alfred Hitchcock
ENG 240 Introduction to Children’s Literature
ENG 241 Survey of African American Literature

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR — Credits
Fall Semester
ENG 101 English Composition I 3
MAT ___ Mathematics elective 3–4
PSY 101 General Psychology 3
ART 101 Art Appreciation I or
MUS 101 Music Appreciation I 3
HIS 101 History of Western Civilization I 3
15–16
Spring Semester
ENG 102 English Composition II 3
MAT ___ Mathematics elective 3–4
ENG 103 Survey of World Literature 3
HIS 102 History of Western Civilization II 3
ENG ___ Program Option elective – English 3
HPE ___ Health and Physical Education elective 1–3
16–19

SECOND YEAR —
Fall Semester
___ ___ Lab Science elective 4
SOC 101 Principles of Sociology 3
PHI 101 Introduction to Philosophy 3
ENG 230 Major American Writers 3
___ ___ Global and Cultural Awareness elective 3
16
Spring Semester
SPE 101 Oral Communication 3
___ ___ Lab Science elective 4
ENG 207 Major British Writers from the Middle Ages to the 17th Century or
ENG 208 Major British Writers from the 18th Century to the Present 3
ENG ___ Program Option elective – English 3
13

TOTAL MINIMUM CREDITS: 60

Contact Person
Marcela Stein-Savelski, Assistant Dean, Humanities,
Assistant Professor, English
msavelsk@rcsj.edu
Arts and Sciences:  
History Option  
[AA-ASC-HST; CIP Code 240101]  

**Associate in Arts (A.A.) — Transfer**  
This program provides the general education foundation necessary for students who are planning to transfer to complete a baccalaureate degree. Using available elective credits students will focus on History as a specific field of study. **This degree can also be completed fully online.**

**Program Learning Outcomes**  
Students who have completed the program will be able to:  
- Communicate effectively in writing and orally  
- Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives  
- Analyze information and use critical thinking to make decisions and solve problems  
- Demonstrate a basic understanding of the human experience and the development of societies from an historical perspective

**Program Notes**  
1. Students should contact their advisors to clarify four-year degree transfer requirements and refer to the College catalog for course pre-requisites.  
2. It is recommended that students intending to transfer to Rowan University take either SOC 101 Principles of Sociology or PSY 101 General Psychology along with ECO 101 Principles of Economics–Macro.  
3. It is recommended that students intending to transfer to Rowan University take two semesters of one foreign language to fulfill their General Education elective.  
4. HIS 101 History of Western Civilization I  
   HIS 102 History of Western Civilization II  
   HIS 205 World History I  
   HIS 206 World History II  
   GEO 102 Cultural Geography recommended

**Program Electives**  
- HIS 101 History of Western Civilization I  
- HIS 102 History of Western Civilization II  
- HIS 107 African American History  
- HIS 205 World History I  
- HIS 206 World History II  
- POL 103 Introduction to Political Science

**Contact Persons**  
Gina Rongione-D’Argenio, Assistant Professor, History  
grongion@rcsj.edu  
Joseph D’Argenio, Instructor I, History  
jdargeni@rcsj.edu

**Advisement**  
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**FIRST YEAR —**

<table>
<thead>
<tr>
<th>Semester</th>
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<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Fall</td>
<td>ENG 101</td>
<td>English Composition I</td>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>MAT ___</td>
<td>Mathematics elective</td>
<td>3–4</td>
</tr>
<tr>
<td>Spring</td>
<td>MAT ___</td>
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<th>Course Title</th>
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<tr>
<td>Fall</td>
<td>POL 101</td>
<td>American Federal Government</td>
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<td>Spring</td>
<td>PSY 101</td>
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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>Fall</td>
<td>ART 101</td>
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<td>Spring</td>
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**SECOND YEAR —**

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<th>Semester</th>
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<td>Lab Science elective</td>
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<tr>
<td>Spring</td>
<td>SPE 101</td>
<td>Oral Communication</td>
<td>3</td>
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<tr>
<th>Semester</th>
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<td>Fall</td>
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<td>Lab Science elective</td>
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<td>Spring</td>
<td>PHI 101</td>
<td>Introduction to Philosophy</td>
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<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>HIS 104</td>
<td>History of the United States II</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>___ ___</td>
<td>Program Option elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL MINIMUM CREDITS:**  
60


**Arts and Sciences: Music Option**

[AA-ASC-MUS; CIP Code 240101]

**Associate in Arts (A.A.) — Transfer**

This program provides the general education foundation necessary for students who are planning to transfer to complete a baccalaureate degree. Using available elective credits students will focus on Music as a specific field of study.

**Program Learning Outcomes**

Students who have completed the program will be able to:

- Communicate effectively in writing and orally
- Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives
- Analyze information and use critical thinking to make decisions and solve problems
- Demonstrate a basic proficiency in music theory and skill

**Program Notes**

1 Students should contact their advisors to clarify four-year degree transfer requirements and refer to the College catalog for course pre-requisites.

2 Placement into MUS 212 Music Theory is by Placement Exam or Instructor’s permission. No exceptions.

3 Students may substitute another history elective for these courses. Please see your academic advisor for additional details.

**Program Electives**

- MUS 121 History of Musical Theatre
- MUS 203 American Music

**Contact Person**

Dr. Natalka Pavlovsky, Associate Professor, Music
npavlovsky@rcsj.edu

**Advisement**

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

<table>
<thead>
<tr>
<th>FIRST YEAR —</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
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</tr>
<tr>
<td>ENG 101 English Composition I</td>
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<tr>
<td>MAT ___ Mathematics elective¹</td>
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<tr>
<td>ART 101 Art Appreciation I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 101 History of Western Civilization I³</td>
<td>3</td>
</tr>
<tr>
<td>MUS ___ Program Option elective – Music</td>
<td>3</td>
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<tr>
<td></td>
<td>15–16</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MAT ___ Mathematics elective¹</td>
<td>3–4</td>
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<tr>
<td>HIS 102 History of Western Civilization II³</td>
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<tr>
<td>MUS 212 Music Theory²</td>
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<tr>
<td>MUS 215 Aural Skills</td>
<td>1</td>
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<tr>
<td>___ ____ Global and Cultural Awareness elective¹</td>
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<table>
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<tr>
<th>SECOND YEAR —</th>
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<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
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<tr>
<td>___ ____ Lab Science elective¹</td>
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<tr>
<td>SOC 101 Principles of Sociology</td>
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<td>ENG ___ English elective</td>
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<tr>
<td>MUS 207 Music History I: Music to 1750</td>
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<td></td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>SPE 101 Oral Communication</td>
<td>3</td>
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<tr>
<td>___ ____ Lab Science elective¹</td>
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<tr>
<td>PSY 101 General Psychology</td>
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<tr>
<td>PHI 101 Introduction to Philosophy</td>
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<tr>
<td>MUS ___ Program Option elective – Music</td>
<td>3</td>
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<tr>
<td></td>
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</table>

**TOTAL MINIMUM CREDITS:**

60
Arts and Sciences:
Philosophy Option
[AA-ASC-PHI; CIP Code 240101]

Associate in Arts (A.A.) — Transfer
This program provides the general education foundation
necessary for students who are planning to transfer to complete
a baccalaureate degree. Using available elective credits students
will focus on Philosophy as a specific field of study.

Program Learning Outcomes
Students who have completed the program will be able to:
• Communicate effectively in writing and orally
• Demonstrate an understanding of various scientific,
  artistic, social and historical ideas and perspectives
• Analyze information and use critical thinking to make
decisions and solve problems
• Demonstrate a basic understanding of fundamental
  principles and theories of philosophy

Program Notes
1 Students should contact their advisors to clarify four-year
degree transfer requirements and refer to the College catalog
for course pre-requisites
2 Students intending to transfer to Rowan University should
take PHI 110 Religions of the World, PHI 104 Ethics and PHI 150
Critical Thinking as their program option electives
3 Students may substitute another history elective for these
courses. Please see your academic advisor for additional details

Program Electives
PHI 104 Ethics
PHI 110 Religions of World
PHI 150 Critical Thinking
PHI 201 Philosophy and History of Science
PHI 204 Contemporary Moral Issues
PHI 210 Ancient and Medieval Philosophy

Contact Person
Dr. Zbigniew Jan Marczuk, Assistant Professor, Philosophy
zmarczuk@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to
schedule an appointment with your academic advisor. Future
students please visit RCSJ.edu/gc/Appointments to learn
more about how to get started.

FIRST YEAR —
Fall Semester
ENG 101 English Composition I 3
MAT ___ Mathematics elective1 3–4
PHI 101 Introduction to Philosophy 3
ART 101 Art Appreciation I or 3
MUS 101 Music Appreciation I
HIS 101 History of Western Civilization I 3
15–16

Spring Semester
ENG 102 English Composition II 3
MAT ___ Mathematics elective1 3–4
PSY 101 General Psychology 3
HIS 102 History of Western Civilization II 3
HPE ___ Health and Physical Education elective 1–3
PHI ___ Program Option elective – Philosophy2 3
16–19

SECOND YEAR —
Fall Semester
___ ___ Lab Science elective1 4
ENG ___ English Literature elective1 3
___ ___ Global and Cultural Awareness elective1 3
___ ___ General Education elective 3
PHI ___ Program Option elective – Philosophy2 3
16

Spring Semester
SPE 101 Oral Communication 3
___ ___ Lab Science elective1 4
SOC 101 Introduction to Sociology 3
PHI ___ Program Option elective – Philosophy2 3
13

TOTAL MINIMUM CREDITS: 60
Arts and Sciences: Psychology Option
[AA-ASC-PSY; CIP Code 240101]

Associate in Arts (A.A.) — Transfer
This program provides the general education foundation necessary for students who are planning to transfer to complete a baccalaureate degree. Using available elective credits students will focus on Psychology as a specific field of study. This degree can also be completed fully online.

Program Learning Outcomes
Students who have completed the program will be able to:
• Communicate effectively in writing and orally
• Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives
• Analyze information and use critical thinking to make decisions and solve problems
• Demonstrate a basic understanding of fundamental principles and theories of psychology

Program Notes
1 Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites
2 Students intending to attend Rowan University in the Psychology BA program must take PSY 240 Social Psychology and PSY 211 Psychology of Human Development or PSY 213 Child Psychology
3 Students may substitute another history elective for these courses. Please see your academic advisor for additional details.
4 ENG 203 Literature by Women
   ENG 213 Non-Western Literature or
   ENG 215 Immigrant Voices in American Literature recommended

Program Electives
PSY 170 Topics in Psychology
PSY 203 Educational Psychology
PSY 211 Psychology of Human Development2
PSY 212 Psychology of the Adolescent
PSY 213 Child Psychology2
PSY 215 Psychology of Aging
PSY 230 Abnormal Psychology
PSY 240 Social Psychology2

The following 300-level courses will be available for those involved in the 3+1 program. For more information contact the 3+1 Advisor, 3plus1@rcsj.edu
PSY 305 Psychology of Scientific Thinking
PSY 310 Psychology as a Profession and Practice

Contact Person
Jessica Jolly, Associate Professor, Psychology jjolly@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

First Year — Credits
Fall Semester
ENG 101 English Composition I 3
MAT ___ Mathematics elective 3-4
PSY ___ General Psychology 3
ART 101 Art Appreciation I or
MUS 101 Music Appreciation I 3
HIS 101 History of Western Civilization I 3
15-16

Spring Semester
ENG 102 English Composition II 3
MAT ___ Mathematics elective 3-4
SOC 101 Principles of Sociology 3
HIS 102 History of Western Civilization II 3
HPE ___ Health and Physical Education elective 1-3
PSY ___ Program Option elective – Psychology 3
16-19

Second Year — Credits
Fall Semester
___ ___ Lab Science elective 3-4
ENG ___ English elective 3
___ ___ Global and Cultural Awareness elective 3
___ ___ General Education elective 3
PSY ___ Program Option elective – Psychology 3
16

Spring Semester
SPE 101 Oral Communication 3
___ ___ Lab Science elective 3
PHI 101 Introduction to Philosophy 3
PSY ___ Program Option elective – Psychology 3
13

Total Minimum Credits: 60
Arts and Sciences Radio, Television and Film Option
[AA-ASC-RTF; CIP Code 240101]

Associate in Arts (A.A.) – Transfer

This program provides the general education foundation necessary for students who are planning to transfer to a baccalaureate degree program in Radio, Television and Film. Using available elective credits, students will focus on the technical aspects of Radio, Television and Film as a specific field of study.

Program Outcomes
Student completing this option will:
• Demonstrate the basic operation of audio, video and multimedia equipment used to produce media presentations
• Define technical terms and language of media production
• Be able to formulate and plan productions and explain their plans both orally and in writing
• Develop their creative intelligence and use various media technologies to communicate information
• Describe the evolution of media technologies and industries.
• Analyze the effects of media on individuals and society
• Evaluate media, including their own work and the work of others

Program Notes
1 Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites.
2 Students may substitute another history elective for these courses. Please see your academic advisor for additional details.
3 MAT 101 Concepts of Mathematics
   MAT 102 Survey of Mathematics or
   MAT 115 College Geometry suggested

Program Option Electives
COM 216 Foundations of Media Production
COM 210 Film History and Appreciation I
COM 212 TV History and Appreciation
COM 217 Applied Media Aesthetics

The following 300-level courses will be available for those involved in the 3+1 program. For more information contact the 3+1 Advisor, 3plus1@rcsj.edu

COM 310 Television Production I
COM 312 Film Production I
COM 317 The Movie Industry
COM 319 Screenwriting I

Contact Person
David Coates, Instructor
dcoates@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

<table>
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<tr>
<th>Semester</th>
<th>Course Name</th>
<th>Credits</th>
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<td>Fall Semester</td>
<td>ENG 101 English Composition I</td>
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<td>MAT ___ Mathematics elective¹</td>
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<td>PSY 101 General Psychology</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>HIS 101 History of Western Civilization I²</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>COM 217 Applied Media Aesthetics</td>
<td>3</td>
<td></td>
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<td></td>
<td></td>
<td>15–16</td>
<td></td>
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<tr>
<td>Spring Semester</td>
<td>ENG 102 English Composition II</td>
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<td>MAT ___ Mathematics elective¹</td>
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<td></td>
<td>ART 101 Art Appreciation I or</td>
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<td>MUS 101 Music Appreciation I</td>
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<td></td>
<td>HIS 102 History of Western Civilization I²</td>
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<td></td>
<td>COM 216 Foundations of Media Production</td>
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SECOND YEAR —

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<tr>
<th>Semester</th>
<th>Course Name</th>
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<tr>
<td>Fall Semester</td>
<td>SPE 101 Oral Communication</td>
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<td></td>
<td>___ ___ Lab Science elective¹</td>
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<td></td>
<td>SOC 101 Principles of Sociology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>___ ___ Global and Cultural Awareness elective</td>
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<tr>
<td></td>
<td>COM 212 TV History and Appreciation</td>
<td>3</td>
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<td></td>
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<tr>
<td>Spring Semester</td>
<td>___ ___ Lab Science elective¹</td>
<td>4</td>
<td></td>
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<tr>
<td></td>
<td>PHI 101 Introduction to Philosophy</td>
<td>3</td>
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<tr>
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<td>___ ___ Humanities - Broad-Based (HUP) elective¹</td>
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<td>HPE ___ Health and Physical Education elective</td>
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<td>COM 210 Film History and Appreciation</td>
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<td></td>
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<td>14–16</td>
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</table>

TOTAL MINIMUM CREDITS: 60
Arts and Sciences:  
Social Work Option  
[AA-ASC-SOW; CIP Code 240101]  

Associate in Arts (A.A.) — Transfer  
This program provides the general education foundation necessary for students who are planning to transfer to complete a baccalaureate degree. Using available elective credits students will focus on Social Work as a specific field of study. This degree can also be completed fully online.

Program Learning Outcomes  
Students who have completed the program will be able to:  
• Communicate effectively in writing and orally  
• Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives  
• Analyze information and use critical thinking to make decisions and solve problems  
• Demonstrate a basic understanding of social systems and human services

Program Notes  
1 Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites  
2 Students intending to transfer to Rowan University should take SOC 104 Social Problems and SOC 206 Minorities in American Society as their program option electives.  
3 ENG 203 Literature by Women, or ENG 213 Non-Western Literature or ENG 215 Immigrant Voices in American Lit recommended  
4 Students may substitute another history elective for these courses. Please see your academic advisor for additional details.

Program Electives  
CRJ 230 Violent Crime in America  
POL 101 American Federal Government  
PSY 211 Psychology of Human Development  
PSY 212 Psychology of the Adolescent  
PSY 213 Child Psychology  
PSY 215 Psychology of Aging  
PSY 230 Abnormal Psychology  
PSY 240 Social Psychology  
SOC 104 Social Problems  
SOC 130 Society, Ethics and Technology  
SOC 203 Sociology of Education  
SOC 206 Minorities in American Society  
SOC 220 Sociology of Juvenile Delinquency

Contact Person  
Chara Doyle, Assistant Professor, Sociology  
cdoyle@rcsj.edu

Advisement  
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —  
Credits  
Fall Semester  
ENG 101 English Composition I  
3  
MAT ___ Mathematics elective 1  
3–4  
PSY 101 General Psychology  
3  
SOC 101 Principles of Sociology  
3  
HIS 101 History of Western Civilization I 4  
3  
15–16  
Spring Semester  
ENG 102 English Composition II  
3  
MAT ___ Mathematics elective 1  
3–4  
HIS 102 History of Western Civilization II 4  
3  
SOC 102 Sociology of the Family  
3  
15–16  
SECOND YEAR —  
Fall Semester  
___ ___ Lab Science elective 1  
4  
ART 101 Art Appreciation I or  
MUS 101 Music Appreciation I  
3  
ENG ___ English Literature elective 1,3  
3  
HPE ___ Health and Physical Education elective 1–3  
SOC 160 Introduction to Social Work  
3  
14–16  
Spring Semester  
SPE 101 Oral Communication  
3  
___ ___ Lab Science elective 1  
4  
PHI 101 Introduction to Philosophy  
3  
___ ___ Program Option elective 2  
3  
16  
TOTAL MINIMUM CREDITS:  
60
Arts and Sciences: Sociology Option  
[AA-ASC-SOC; CIP Code 240101]

**Associate in Arts (A.A.) — Transfer**

This program provides the general education foundation necessary for students who are planning to transfer to complete a baccalaureate degree. Using available elective credits students will focus on Sociology as a specific field of study. **This degree can also be completed fully online.**

### Program Learning Outcomes

Students who have completed the program will be able to:

- Communicate effectively in writing and orally
- Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives
- Analyze information and use critical thinking to make decisions and solve problems
- Demonstrate a basic understanding of fundamental principles and theories of sociology
- Demonstrate knowledge of modern societal issues and trends in society

### Program Notes

1. Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites
2. ENG 203 Literature by Women
   ENG 213 Non-Western Literature or
   ENG 215 Immigrant Voices in American Literature recommended
3. Program electives
4. Students may substitute another history elective for these courses. Please see your academic advisor for additional details.

### Program Electives

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<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CRJ 230</td>
<td>Violent Crime in America</td>
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<tr>
<td>PSY 211</td>
<td>Psychology of Human Development</td>
<td></td>
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<tr>
<td>PSY 213</td>
<td>Child Psychology</td>
<td></td>
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<tr>
<td>PSY 215</td>
<td>Psychology of Aging</td>
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<td>PSY 230</td>
<td>Abnormal Psychology</td>
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<tr>
<td>SOC 102</td>
<td>Sociology of the Family</td>
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<tr>
<td>SOC 104</td>
<td>Social Problems</td>
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<td>SOC 130</td>
<td>Society, Ethics and Technology</td>
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<tr>
<td>SOC 160</td>
<td>Introduction to Social Work</td>
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</tr>
<tr>
<td>SOC 206</td>
<td>Minorities in American Society</td>
<td></td>
</tr>
</tbody>
</table>

### Contact Person

Chara Doyle, Assistant Professor, Sociology  
ccdoy@rcsj.edu

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**Advisement**

Current students please visit [RCSJ.edu/gc/Advisement](https://RCSJ.edu/gc/Advisement) to schedule an appointment with your academic advisor. Future students please visit [RCSJ.edu/gc/Appointments](https://RCSJ.edu/gc/Appointments) to learn more about how to get started.

<table>
<thead>
<tr>
<th>First Year —</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall Semester</td>
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<tr>
<td>ENG 101</td>
<td>English Composition I</td>
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<tr>
<td>MAT ___</td>
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<tr>
<td>SOC 101</td>
<td>Principles of Sociology</td>
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<tr>
<td>ART 101</td>
<td>Art Appreciation I or</td>
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<tr>
<td>MUS 101</td>
<td>Music Appreciation I</td>
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<td>HIS 101</td>
<td>History of Western Civilization I⁴</td>
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<td></td>
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<tr>
<td>Spring Semester</td>
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</tr>
<tr>
<td>ENG 102</td>
<td>English Composition II</td>
</tr>
<tr>
<td>MAT ___</td>
<td>Mathematics elective¹</td>
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<td>PSY 101</td>
<td>General Psychology</td>
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<td>HIS 102</td>
<td>History of Western Civilization II⁴</td>
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<tr>
<td>HPE ___</td>
<td>Health and Physical Education elective</td>
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<tr>
<td>SOC ___</td>
<td>Program Option elective³</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Second Year — |         |
| Fall Semester |         |
| ___ ___ Lab Science elective¹ | 4       |
| ENG ___      | English Literature elective¹² | 3       |
| ___ ___      | Global and Cultural Awareness elective | 3     |
| ___ ___      | General Education elective | 3       |
| SOC ___      | Program Option elective⁴ | 3       |
|             |         | 16       |
| Spring Semester |         |
| SPE 101      | Oral Communication | 3       |
| ___ ___ Lab Science elective¹ | 4       |
| PHI 101      | Introduction to Philosophy | 3     |
| SOC ___      | Program Option elective⁵ | 3       |
|             |         | 13       |

TOTAL MINIMUM CREDITS: **60**
Arts and Sciences:
Theatre, Dance Option
[AA-ASC-THR; CIP Code 240101]

Associate in Arts (A.A.) — Transfer
This program provides the general education foundation necessary for students who are planning to transfer to complete a baccalaureate degree. Using available elective credits students will focus on Theatre and Dance as a field of study.

Program Learning Outcomes
- Students who have completed the program will be able to:
  - Communicate effectively both in writing and orally
  - Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives
  - Analyze information and use critical thinking to make decisions and solve problems
  - Demonstrate basic dance skills and an understanding of performance theatre

Program Notes
1 Students should contact their advisors to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites
2 Students may substitute another history elective for these courses. Please see your academic advisor for additional details.

Contact Person
Marcela Stein-Savelski, Assistant Dean, Humanities, Assistant Professor, English
msavelski@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>ENG 101</td>
<td>English Composition I</td>
</tr>
<tr>
<td>3</td>
<td>SPE 101</td>
<td>Oral Communication</td>
</tr>
<tr>
<td>1</td>
<td>MAT ___</td>
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<td>3</td>
<td>HIS 101</td>
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<td>3</td>
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<td>Fundamentals of Ballet</td>
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<td>Spring Semester</td>
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<td>3</td>
<td>ENG 102</td>
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<td>3</td>
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<td>History of Western Civilization II</td>
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SECOND YEAR —

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<tr>
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<td>___ ___</td>
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TOTAL MINIMUM CREDITS 60
Arts and Sciences: 
Theatre, Drama Option
[AA-ASC-THR; CIP Code 240101]

Associate in Arts (A.A.) — Transfer

This program provides the general education foundation necessary for students who are planning to transfer to complete a baccalaureate degree. Using available elective credits students will focus on Theatre and Drama as a field of study.

Program Learning Outcomes

Students who have completed the program will be able to:
• Communicate effectively both in writing and orally
• Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives
• Analyze information and use critical thinking to make decisions and solve problems
• Demonstrate basic acting skills and an understanding of performance theatre

Program Notes

1 Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites
2 Students may substitute another history elective for these courses. Please see your academic advisor for additional details.

Contact Person
Rose Gruber, Assistant Professor, Communications 
gruber@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

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|                      | SECOND YEAR —                                      |         |
| Fall Semester        |                                                   |         |
| ___ ___              | Lab Science elective¹                              | 4       |
| ENG 235              | American Film Classics                            | 3       |
| SPE 103              | Voice and Diction                                 | 3       |
| ___ ___              | Global and Cultural Awareness elective¹           | 3       |
|                      |                                                   | 13      |
| Spring Semester      |                                                   |         |
| ___ ___              | Lab Science elective¹                              | 4       |
| SOC 101              | Principles of Sociology                           | 3       |
| MUS 101              | Music Appreciation I                              | 3       |
| ART 101              | Art Appreciation I                                | 3       |
| THR 109              | Living Theatre                                    | 3       |
|                      |                                                   | 16      |

TOTAL MINIMUM CREDITS: 60
Education, Behavioral Sciences and Humanities

Education

[AA-EDU; CIP Code 130101]

Associate in Science (A.S.) — Transfer

This program provides the general education foundation necessary for students who are planning to transfer to complete a baccalaureate degree.

Program Learning Outcomes

Students who have completed the program will be able to:

• Communicate effectively
• Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives
• Analyze information and use critical thinking to make decisions and solve problems
• Demonstrate a basic understanding of educational systems and theories and the teaching profession

Program Notes

Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course pre-requisites.

1 Students intending to transfer to Rowan University should take HIS 103 U.S. History I
2 Students intending to transfer to Rowan University should take BIO 107 Human Biology and PHY 101 Introduction to Physical Science
3 Students intending to transfer to Rowan University should take MUS 103 Music in Childhood Education
4 Students intending to transfer to Rowan University should take ENG 103 Survey of World Literature
5 Students intending to transfer to Rowan University should take MAT 120 Structures of Mathematics and MAT 121 Structures of Mathematics II

Contact Person

Kevin Kitchenman, Assistant Dean, Education and Behavioral Sciences
kkitchen@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

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<td>PSY 101</td>
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<td>HIS ___</td>
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Spring Semester

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<td>PSY 213</td>
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<td>EDU 105</td>
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<td>BIO ___</td>
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<td>PHY ___</td>
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<td>ART ___</td>
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<td>MUS ___</td>
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SECOND YEAR —

Fall Semester

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<td>PHY ___</td>
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Spring Semester

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<td>EDU 130</td>
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<td>SPE 101</td>
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<td>EDU 215</td>
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<td>EDU 216</td>
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<td>MAT ___</td>
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TOTAL MINIMUM CREDITS: 60
Health, Physical Education and Recreation (HPER)

[AA-HPE; CIP Code 131314]

Associate in Science (A.S.) — Transfer

The Health, Physical Education and Recreation program provides our students with a solid foundation of learning experiences that will enable them to transfer into four-year programs, in order to pursue careers in the field of health and physical education as teachers or in the field of recreation.

Program Learning Outcomes

Students who have completed the program will be able to:

• Adequately demonstrate physical skills pertaining to team and individual sports as well as a variety of fitness activities
• Teach individuals or groups a broad range of physical and recreational activities as well as a variety of team, dual and individual sports
• Apply knowledge in basic human biology to physical and recreational activities
• Explain and apply basic CPR and first aid techniques

Program Notes

1 General Biology or Human Biology recommended

Contact Person

Rob Valli, Instructor
rvalli@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR –

<table>
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<th>Credits</th>
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<td>ENG 101</td>
<td>English Composition I</td>
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<tr>
<td>MAT 103</td>
<td>Statistics</td>
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<tr>
<td>HPE 209</td>
<td>Individual and Dual Sports</td>
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<td>Team Sports I</td>
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<td>HPE 240</td>
<td>Intro to Health and Physical Education</td>
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Spring Semester

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<tbody>
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<td>SPE 101</td>
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<td>HPE 222</td>
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SECOND YEAR –

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<tr>
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<tbody>
<tr>
<td>SOC 101</td>
<td>Principles of Sociology</td>
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<td>BIO 105</td>
<td>Anatomy and Physiology I</td>
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<td>HPE 211</td>
<td>Consumer Health Decisions</td>
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Spring Semester

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<tr>
<td>PSY 101</td>
<td>General Psychology</td>
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<tr>
<td>MUS 101</td>
<td>Music Appreciation</td>
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<tr>
<td>HIS ___</td>
<td>History elective</td>
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<td>HPE ___</td>
<td>Global and Cultural Awareness elective</td>
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<td>HPE ___</td>
<td>HPE elective</td>
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TOTAL MINIMUM CREDITS: 60
Law and Justice

Arts and Sciences:
Pre-Law Option
[AA-ASC-LAW; CIP Code 240101]

Associate in Arts (A.A.) — Transfer
This program provides the general education foundation necessary for students who are planning to transfer to a baccalaureate degree program. Using available elective credits, students will focus on legal systems as a specific field of study.

Program Learning Outcomes
Students who have completed the program will be able to:
- Communicate effectively in writing and orally
- Demonstrate an understanding of various scientific, artistic, social and historical ideas and perspectives
- Analyze information and use critical thinking to make decisions and solve problems
- Demonstrate a basic understanding of legal principles and systems

Program Notes
1 Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites.
2 Spanish recommended

Contact Person
Fred Madden, Dean, Division of Law and Justice
fmadden@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

<table>
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<tr>
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<tr>
<td></td>
<td>MAT 101 Concepts of Mathematics 3</td>
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<td>HIS 101 History of Western Civilization I 3</td>
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<td>PLG 101 Introduction to Legal Studies 3</td>
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<td>SPE 101 Oral Communication 3</td>
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Spring Semester

| 15      | ENG 102 English Composition II 3 |
|         | HIS 102 History of Western Civilization II 3 |
|         | PSY 101 General Psychology 3 |
|         | PLG 103 Legal Research and Writing 3 |
|         | MAT 103 Statistics 3 |

SECOND YEAR —

| 16      | Fall Semester |
|         | __ __ General Education elective 3 |
|         | SOC 101 Principles of Sociology 3 |
|         | __ __ Modern Language elective2 3 |
|         | __ __ Lab Science elective1 4 |
|         | POL 101 American Federal Government or 3 |
|         | POL 103 Introduction to Political Science 3 |

Spring Semester

| 14      | PHI 104 Ethics 3 |
|         | ART 101 Art Appreciation I or 3 |
|         | MUS 101 Music Appreciation I |
|         | __ __ Lab Science elective1 4 |
|         | CRJ 201 Criminal Law or 3 |
|         | CRJ 205 Administration of Justice 3 |
|         | HPE 105 Healthcare Provider Emergency Response with BLS Certification 1 |

TOTAL MINIMUM CREDITS: 60
Criminal Justice

[AS-ASC-CRJ; CIP Code 430107]

Associate in Science (A.S.) — Transfer

This program provides an excellent foundation for transfer to four-year colleges and universities. The program is structured to provide the student with exploratory academic experiences in criminal justice.

Program Learning Outcomes

Students who have completed the program will be able to:

- Describe the criminal justice system
- Explain crime and criminological theories
- Explain crime sources, trends and outcomes
- Articulate criminological theories
- Demonstrate current methods used for evidence collection and analysis

Program Notes

Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites.

Students must complete all Arts and Science (A.S.) required courses (54 credits) plus six credits selected from the program electives.

1 Modern language recommended. SPA 120 Spanish for Law Enforcement is not a general education elective. SPA 101 Elementary Spanish I or SPA 102 Elementary Spanish II recommended

Program Electives

LEN 102 Police Organization and Administration
LEN 108 Police and Personal Management
LEN 210 Contemporary Issues in Law Enforcement
LEN 221 principles of Criminal Investigation
LEN 227 Introduction to Corrections
LEN 234 Introduction to Security
CRJ 238 Crime on the Internet
CRJ 270 Internship in Law Enforcement/Criminal Justice
CRJ 225 Community Policing and Crime Analysis
CRJ 230 Violent Crime in America
CRJ 261 Organized Crime in America
CRJ 262 Domestic and International Terrorism

Employment Opportunities

- Probation Officer
- Corrections Officer
- Police Officer
- Criminal Justice Research Practitioner
- Parole Officer

Contact Person

Fred Madden, Dean, Division of Law and Justice
fmadden@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR — Credits

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<th>Course Title</th>
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<td>Spring Semester</td>
<td>ENG 102</td>
<td>English Composition II</td>
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<td>MAT 103</td>
<td>Statistics</td>
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SECOND YEAR — Credits

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<td>CRJ 215</td>
<td>Introduction to Criminology</td>
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</table>

TOTAL MINIMUM CREDITS: 60

Graduates of Gloucester County Police Academy may be eligible for 16 college credits toward this degree.
Law and Justice

Law Enforcement

[AAS-LEN; CIP Code 430107]

**Associate in Applied Science (A.A.S.) — Career**

This program offers a broad professional education towards careers in law enforcement and criminal justice. Career-related subjects are balanced with compatible supportive courses to offer a thorough preparation for, and advanced study in, the judicial system, police, corrections, security and related fields.

**Program Learning Outcomes**

Students who have completed the program will be able to:

- Describe the criminal justice system
- Explain crime and criminological theories
- Describe policing models and practices
- Compose investigative reports
- Practice methods of investigative analysis

**Program Notes**

Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites.

Students must complete all Associate in Applied Science (A.A.S.) required courses (57 credits) plus three credits selected from the program electives.

1 See advisor for recommendations.

**Program Electives**

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<td>Crime on the Internet</td>
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<td>CRJ 270</td>
<td>Internship in Law Enforcement/Criminal Justice</td>
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<td>CRJ 225</td>
<td>Community Policing and Crime Analysis</td>
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<td>CRJ 230</td>
<td>Violent Crime in America</td>
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<tr>
<td>CRJ 261</td>
<td>Organized Crime in America</td>
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<td>CRJ 262</td>
<td>Domestic and International Terrorism</td>
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</table>

**Employment Opportunities**

- Law Enforcement Officer
- Corrections Officer
- Security Officer
- Loss Prevention Officer

**Contact Person**

Fred Madden, Dean, Division of Law and Justice
fmadden@rcsj.edu

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**Advisement**

Current students please visit [RCSJ.edu/gc/Advisement](http://RCSJ.edu/gc/Advisement) to schedule an appointment with your academic advisor. Future students please visit [RCSJ.edu/gc/Appointments](http://RCSJ.edu/gc/Appointments) to learn more about how to get started.

**FIRST YEAR — Credits**

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<td>Introduction to Criminal Justice</td>
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<td>SOC 101</td>
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<td>SOC 102</td>
<td>Sociology of the Family or</td>
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<td>Police Organization and Administration</td>
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**SECOND YEAR — Credits**

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<td>Concepts of Mathematics</td>
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<td>LEN 210</td>
<td>Contemporary Issues in Law Enforcement</td>
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<td>LEN 227</td>
<td>Introduction to Corrections</td>
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<td>SOC 220</td>
<td>Sociology of Juvenile Delinquency</td>
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<td>HPE 105</td>
<td>Healthcare Provider Emergency with BLS Certification</td>
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</tbody>
</table>

**TOTAL MINIMUM CREDITS:**

60

Graduates of Gloucester County Police Academy may be eligible for 16 college credits toward this degree.
Paralegal

[AAS-PLG; CIP Code 220302]

Associate in Applied Science (A.A.S.) — Career

The goal of the Paralegal program is to provide students with specialized legal training enabling them to gather and analyze facts relevant to legal disputes, perform legal research, assist attorneys in drafting legal documents and prepare witnesses and evidence for presentation at legal proceedings. Paralegals may not practice law. They may not provide legal services directly to the public, except as permitted by law.

Program Learning Outcomes

Students who have completed the program will be able to:
• Recognize ethical issues that arise in a legal work environment and apply rules of professional conduct to resolve them
• Apply specialized legal training to enable them to gather and analyze facts relevant to legal disputes
• Demonstrate oral and written skills, including drafting legal documents for attorney review
• Apply basic principles of legal research and analysis
• Utilize time-management skills, including prioritizing various tasks, in order to meet deadlines
• Demonstrate sensitivity through adaptability and flexibility in working with a diverse group of people
• Utilize computer systems and other appropriate forms of technology for legal research and to enhance paralegal skills

Program Notes

Internship — This Program includes a practicum (internship) of 210 hours served under the supervision of a practicing attorney, designed to provide training to reinforce concepts and practical skills learned in the classroom.

Transfer Credit for Legal Specialty Courses is limited to a maximum of five, 3-credit courses completed at another ABA-approved institution. Prior to acceptance of these transfer credits, a course description comparison and syllabus evaluation is made by the Program Coordinator to assure that the courses are comparable. If comparability is found, a recommendation is made to the Dean of Law and Justice for approval.

Any legal Specialty (PLG) course taken prior to ABA approval (August 1998) must be taken again to qualify for the issuance of a Paralegal Program degree or certificate.

1 POL 101 American Federal Government or POL 103 Introduction to Political Science may be substituted
2 PLG electives include: PLG 110 Contemporary Issues in Paralegal Studies; PLG 203 Bankruptcy; PLG 207 Family/Domestic Law; PLG 210 Property Transactions
3 SPE 101 Oral Communications recommended

Employment Opportunities

Employment opportunities for graduates may be found in law offices, government agencies, banks, insurance firms, trade associations and a variety of public and private organizations.

Contact Person
Lucy P. McClain, Esq., Program Coordinator
lmclain@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR –  Credits

Fall Semester
ENG 101 English Composition I 3
MAT ___ Mathematics elective 3
CIS 102 Introduction to Computers 4
PLG 101 Introduction to Legal Studies 3
PLG 125 Business Organizations for Paralegals 3

Semester
ENG 102 English Composition II 3
PLG 102 Litigation and Civil Procedure 3
POL 102 American State and Local Government1 3
CIS 120 Excel Spreadsheets 4
PLG 103 Legal Research and Writing 3

SECOND YEAR –  Credits

Fall Semester
PLG 104 Torts 3
PLG 212 Paralegal Skills and Office Practices 3
PLG ___ Elective2 3
PLG ___ Elective2 3
SOC ___ Social Science elective or PHY 241 Forensic Science I
___ ___ Humanities elective3 3–4

Spring Semester
HPE ___ Health and Physical Education elective 1–3
PLG 209 Legal Assistant Practicum 3
PLG 201 Criminal Law and Procedure 3
PLG 204 Technology in the Law Firm 3
PLG 205 Wills, Trusts and Estate Planning 3
___ ___ Humanities elective3 3

TOTAL MINIMUM CREDITS 66
Paralegal

[CER-PLG; CIP Code 220302]

Certificate Program

The goal of this certificate program is to provide students, who already have earned bachelor’s or associate degrees (which include a minimum of 18 hours of general education credits), with the skills necessary to begin a career as a paralegal. In addition to requiring a computer course, the program includes a practicum (internship) of 210 hours served under the supervision of a practicing attorney, designed to provide training to reinforce concepts and practical skills learned in the classroom. **Paralegals may not practice law. They may not provide legal services directly to the public except as permitted by law.**

Program Notes

**Internship** — This Program includes a practicum (internship) of 210 hours served under the supervision of a practicing attorney, designed to provide training to reinforce concepts and practical skills learned in the classroom.

**Transfer Credit for Legal Specialty Courses** is limited to a maximum of five, 3-credit courses completed at another ABA-approved institution. Prior to acceptance of these transfer credits, a course description comparison and syllabus evaluation is made by the Program Coordinator to assure that the courses are comparable. If comparability is found, a recommendation is made to the Dean of Law and Justice for approval.

1 PLG electives include:

- PLG 104 Torts
- PLG 110 Contemporary Issues in Paralegal Studies
- PLG 203 Bankruptcy
- PLG 205 Wills, Trusts and Estate Planning
- PLG 207 Family/Domestic Law
- PLG 210 Property Transactions

Certificate Program Notes

1 In order to qualify for the Career Certificate from RCSJ, any legal specialty (PLG) course taken prior to ABA approval (August 1998) will not be accepted for credit and must be taken again. Additionally, in order to earn a Certificate in RCSJ’s Paralegal Program, the student must earn 34 new, additional credits at RCSJ. None of the required 34 credits can be “borrowed” or “transferred” from the student’s prior degree.

### Core Courses

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<td>PLG 212</td>
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**TOTAL CREDITS:** 34
Exercise Science
[AS-EXS; CIP Code 310505]

Associate in Science (A.S.) — Transfer
This program is designed for those students who have selected a major field of concentration and yet want more flexibility in course selection. The program is designed to meet transfer requirements for students pursuing a Bachelor of Science degree. It is suggested, however, that students seek advisement in course selection from the institutions to which they intend to transfer.

Program Learning Outcomes
Students who have completed the program will be able to:
• Analyze and explain how and why the human body responds to various types of physical activities
• Develop exercise/fitness programs for individuals or groups with diverse health backgrounds and needs that involve proper demonstration and instruction of a variety of exercise equipment
• Explain and apply basic CPR and first aid techniques
• Identify general nutritional needs of individuals as well as how nutrition impacts exercise and athletic performance

Program Notes
Multiple courses are also offered in winter and summer sessions – consult an advisor or faculty member for more information.

1 ART 101 Art Appreciation I or MUS 101 Music Appreciation I recommended
2 MAT 103 Statistics recommended

Contact Person
Timothy Schmitz, Instructor
tschmitz@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR — Credits

Fall Semester
- ENG 101 English Composition I 3
- BIO 101 General Biology or
- BIO 107 Human Biology 4
- HPE 192 Contemporary Health I 3
- PSY 101 General Psychology 3
- HPE 111 Cardiovascular Fitness Activities or 1
- HPE 113 Physical Fitness Activities 1

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Spring Semester
- ENG 102 English Composition II 3
- BIO 105 Anatomy and Physiology I 4
- HPE 193 Contemporary Health II 3
- HPE 240 Introduction to Health and Physical Education 3
- ___ Humanities elective 1

16

SECOND YEAR — Credits

Fall Semester
- BIO 106 Anatomy and Physiology II 4
- HPE 136 Nutrition 3
- HPE 245 Motor Development and Motor Learning 3
- MAT ___ Math elective 3
- HPE 104 Health and Fitness for the Individual or 2
- HPE 117 Weight Training Activities 2

15

Spring Semester
- SPE 101 Oral Communications 3
- SOC 101 Principles of Sociology 3
- HPE 233 Safety, First Aid and the Care and Prevention of Athletic Injuries 3
- HPE 211 Consumer Health Decisions 3
- HPE 265 Fitness Assessment and Exercise Prescription 3

15

TOTAL MINIMUM CREDITS 60

1 Course is only offered in fall semester
2 Course is only offered in spring semester
Certified Clinical Medical Assistant (CCMA)
[COA-CACC; CIP Code 510801]

Certificate of Achievement

The CCMA certificate program is designed to educate students through classroom, laboratory and clinical instruction to become medical assistants capable of performing a variety of tasks to maintain efficiency in the health care environment. Responsibilities of a medical assistant include taking medical histories, recording vital signs, explaining procedures to patients, preparing patients for examination and assisting physicians in various procedures, recording ECG/EKG and performing phlebotomy procedures. Upon completion of this certificate program students will be eligible to take the National Health Career Association (NHA) certificate exam, which qualifies them for positions as medical assistants and/or multi-skilled ECG/EKG or phlebotomy technicians. This certificate program is designed so that students may complete the entire program in one college semester.

For more information on the Health Science Degree please reference page 53 or visit RCSJ.edu/gc/CCMA.

Please note:
Beginning in fall of 2020, the CCMA program will have a revised curriculum. Students may apply through the selective admission process located on the College web site. The program will be increasing the credits from 16 to 29, and can be completed in two semesters. The program is eligible for Financial Aid for those who qualify.

Additional information about the selective admissions process can be found at RCSJ.edu/gc/SelectiveAdmissions.
Health Science

[AAAS-HEA; CIP Code 510000]

Associate in Applied Science (A.A.S.) — Career

This program of study is designed to enhance career opportunities in Allied Health disciplines. Within this option, there are two pathways students can take to earn a Health Science degree. Students who hold an approved medical license or certificate can complete the remaining degree program electives to earn a degree in Health Science.

Students interested in pursuing one of the following RCSJ Allied Health Pathways will automatically be placed in the Health Science degree program:

• Certified Clinical Medical Assistant
• Diagnostic Medical Sonography
• LPN-RN Track
• Nuclear Medicine Technology
• Nursing
• Physical Therapist Assistant

Program Notes

Please keep in mind that the following are selective admission programs. Please see pages 116-127 for more information.

• Diagnostic Medical Sonography
• LPN-RN Track
• Nuclear Medicine Technology
• Nursing
• Physical Therapist Assistant

Once a student has been accepted into a selective admission program, their degree will be changed to the respective major. In the event students decide not to pursue one of the above selective admission programs, they will also have the option to complete the remaining electives for the Health Science degree.

1 Health Science Course Bank

ALH 104, ALH 112, ALH 115, ALH 119, ALH 125, HPE 201, HPE 211, HPE 192, NUR 105, NUR 106, NUR 107, NUR 122, HPE 193, HPE 192, 2 ALH 102, 2 ALH 140, 2 HPE 136

2 Degree requires a minimum of 16 Health Science course credits and a final grade of "C" or better in all courses.

3 General Program Course Bank

ART 101, ART 131, BIO 101, BIO 107, BIO 215, BUS 231, CHM 107, CHM 111, CHM 112, CIS 102, ENG 241, PHI 101, PHI 104, PHI 150, PHY 101, PHY 104, PSY 211, PSY 212, PSY 213, PSY 230, SOC 101, SOC 102, SPA 101, SPA 102, SPE 101

4 Math Course Bank

MAT 101, MAT 103, MAT 105, MAT 107, MAT 110, MAT 115

Students should seek advisement to ensure correct selection of these courses.

FIRST YEAR –

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<td>Fall Semester</td>
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SECOND YEAR –

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TOTAL MINIMUM CREDITS: 60
Health Science – Diagnostic Medical Sonography Pathway  
[AAS-DMS; CIP Code 510910]

Associate in Applied Science (A.A.S.)  
This pathway is designed to guide the student in planning to apply to the selective admission program for Diagnostic Medical Sonography (DMS).

Program Notes  
• Please keep in mind that the DMS program is a selective admission program. For more information on requirements, please visit: RCSJ.edu/gc/SelectiveAdmissions  
• The course schedule is contingent upon successful completion of foundation (remedial) courses  
• To take BIO 105 Anatomy and Physiology I, students must have taken a high school biology and/or college biology course BIO 107 and a high school chemistry and/or college chemistry course CHM 107  
• MAT 105 Intermediate Algebra and MAT 110 Algebra and Trigonometry are prerequisites for PHY 103 General Physics I  
• Once a student has been accepted into the DMS program, their major will be changed  

To learn more about the program or attend an information session, please visit RCSJ.edu/gc/SelectiveAdmissions.

Diagnostic Medical Sonography is a selective admission program. Students must be accepted to the program prior to registering for any DMS courses. Please contact the Enrollment Services office for an admission packet.

Clinical agencies require criminal history background checks (CHBC) for all individuals engaged in patient care. All students must undergo a CHBC upon acceptance into the DMS Program. CHBC results are sent to the clinical agencies, who have the sole discretion to decide if the student may engage in patient care at the agency. If a student is denied the opportunity to participate in the clinical agency as a result of the findings of the CHBC, the student will be dismissed from the DMS Program.

A minimum grade of “C” is required in all DMS, BIO, ALH and PHY courses. Students must maintain a Cumulative Grade Point Average (GPA) of 2.0 to progress in the DMS program.

*Refer to the course description section of this catalog for prerequisite/co-requisite course requirements.

FIRST YEAR —  
Credits

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<td>General Physics I</td>
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<td>ALH 104</td>
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<td>Cross Section Anatomy</td>
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<td>DMS 126</td>
<td>Intro. to Clinical Practicum and Scan Lab (10 weeks)</td>
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<td>Abdominal Sonography I</td>
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<td>DMS 126</td>
<td>Intro. to Clinical Practicum (continuation)</td>
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SECOND YEAR —  
Credits

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<td>Clinical Practicum I</td>
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<td>DMS 209</td>
<td>OB/GYN Sonography I</td>
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TOTAL MINIMUM CREDITS: 60
Health Science – Nuclear Medicine Technology Pathway

[Associate in Applied Science (A.A.S.)]

This pathway is designed to guide the student in planning to apply to the selective admission program for Nuclear Medicine Technology program (NMT).

Program Notes
- Please keep in mind that the NMT Program is a selective admission program. For more information on requirements, please visit: RCSJ.edu/gc/SelectiveAdmissions
- The course schedule is contingent upon successful completion of foundation (remedial) courses
- To take BIO 105 Anatomy and Physiology I, students must have taken a high school biology and/or college biology course BIO 107 and a high school chemistry and/or college chemistry course CHM 107
- MAT 105 (Intermediate Algebra) and MAT 110 Algebra and Trigonometry are prerequisites for PHY 103 General Physics I
- MAT 105 (Intermediate Algebra) and a high school chemistry and/or college chemistry course CHM 107 are prerequisites for CHM 111 General Chemistry I
- Once a student has been accepted into the NMT program, their major will be changed

* Course Banks can be found on page 53

To learn more about the program or attend an information session, please visit RCSJ.edu/gc/SelectiveAdmissions.

FIRST YEAR —

<table>
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<td>ALH 107</td>
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SECOND YEAR —

Fall Semester, Spring Semester

See Course Banks for electives*

33

TOTAL MINIMUM CREDITS: 60

Control sheet effective for students entering 9/2019
Health Science – Nursing Pathway

[AA-HEA; CIP Code 510000]

Associate in Applied Science (A.A.S.)

This pathway is designed to guide the student in planning to apply to the selective admission program for Nursing (NUR).

Program Notes

- Please keep in mind that the Nursing Program is a selective admission program. For more information on requirements, please visit: RCSJ.edu/gc/SelectiveAdmissions
- The course schedule is contingent upon successful completion of foundation (remedial) courses
- To take BIO 105 Anatomy and Physiology I, students must have had taken a high school biology and/or college biology course BIO 107 Human Biology and a high school chemistry and/or college chemistry course CHM 107 Introductory Chemistry
- Once a student has been accepted into the Nursing program, their degree will be changed

1 Health Science Course Bank Electives
ALH 104, ALH 112, ALH 115, ALH 119, ALH 125, HPE 201, HPE 211, HPE 192, NUR 105, NUR 106, NUR 107, NUR 122, HPE 193, ALH 140, ALH 102

Degree requires a minimum of 16 Health Science course credits and a final grade of “C” or better in all courses.

2 General Program Course Bank Electives
ART 101, ART 131, BIO 101, BIO 107, BUS 231, CHM 107, CHM 111, CHM 112, CIS 102, ENG 241, MAT 101, MAT 103*, MAT 105, MAT 107, MAT 110, MAT 115, PHI 101, PHI 104, PHI 150, PHY 101, PHY 104, PSY 212, PSY 213, PSY 230, SOC 102, SPA 101, SPA 102, SPE 101

Students should seek advisement to ensure correct selection of these courses. *MAT 103 recommended for Nursing.

To learn more about the program or attend an information session, please visit RCSJ.edu/gc/SelectiveAdmissions.
Health Science – Physical Therapist Assistant Pathway

[Associate in Applied Science (A.A.S.)]

This pathway is designed to guide the student in planning to apply to the selective admission program for Physical Therapist Assistant (PTA).

Program Notes

- Please keep in mind that the PTA program is a selective admission program. For more information on requirements, please visit RCSJ.edu/gc/SelectiveAdmissions.
- The course schedule is contingent upon successful completion of foundation (general education) courses.
- To take BIO 105 Anatomy and Physiology I, students must have taken a high school biology and/or college biology course BIO 107 Human Biology and a high school chemistry and/or college chemistry course CHM 107 Introductory Chemistry.
- Once a student has been accepted into the PTA program, their major of study will be changed.
- A student who has no previous experience with healthcare terminology should consider taking the one-credit course, ALH 110 Basic Medical Terminology.
- A student who has no previous experience in the physical sciences should consider taking the four-credit course, PHY 101 Principles of Physical Science I.

Health Science Course Bank Electives

ALH 104, ALH 112, ALH 115, ALH 119, ALH 125, HPE 201, HPE 211, HPE 192, NUR 105, NUR 106, NUR 107, NUR 122, HPE 193, ALH 140, ALH 102

Degree requires a minimum of 16 Health Science course credits and a final grade of “C” or better in all courses.

Students should seek advisement to ensure correct selection of these courses.

To learn more about the program or attend an information session, please visit RCSJ.edu/gc/SelectiveAdmissions.

FIRST YEAR –

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SECOND YEAR —

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<td>TOTAL MINIMUM CREDITS:</td>
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¹ Health Science Course Bank Electives
Diagnostic Medical Sonography (DMS)

[AAS-DMS; CIP Code 510910]

Associate in Applied Science (A.A.S.) — Career

The Diagnostic Medical Sonography program prepares the student to function as a medical sonographer. The diagnostic medical sonographer performs sonographic examinations using high-frequency sound waves to visualize soft tissue structures, including the gall bladder, kidneys, pregnant uterus and other organs as requested by the physician. For the vast majority of diagnostic procedures, the sonographer has total responsibility for the care and well-being of the patient and must be prepared to produce quality images with care and empathy.

Special Program Admission Requirements

Diagnostic Medical Sonography is a selective admission program. Students must be accepted to the program prior to registering for any DMS courses. Please contact the Admissions Office for an Admission Packet outlining the steps to apply.

Clinical agencies require criminal history background checks (CHBC) for all individuals engaged in patient care. All students must undergo a CHBC upon acceptance into the DMS program. CHBC results are sent to the clinical agencies who have the sole discretion to decide if the student may engage in patient care at the agency. If a student is denied the opportunity to participate in the clinical agency as a result of the findings of the CHBC, the student will be dismissed from the DMS* program.

A minimum grade of “C” is required in all DMS, BIO, ALH and PHY courses. Students must maintain a cumulative grade point average (GPA) of 2.0 to progress in the DMS program.

Program Notes

* Refer to the course description section of this catalog for prerequisite/co-requisite course requirements.

Program Goals

The DMS program will:

- Prepare competent, entry-level general medical sonographers in the cognitive, psychomotor and affective learning domains
- Utilize support services provided by the College to assist in overall course/program retention rate.
- Provide a curriculum designed to meet requirements of professional bodies
- Prepare students to take the ARDMS examinations appropriate for a general concentration program
- Track success of graduates in obtaining employment as sonographers upon successful completion of program
- Survey graduates and employers within six months of graduation for input on DMS program strengths and areas for improvement
- Provide educational opportunities for re-careering and professional renewal consistent with the mission of the College
- Evaluate the appropriateness of the curriculum against the changing environment and assess progress towards achieving its goal

Places of Employment and Outlook

More than half of all sonographers are employed by hospitals and most of the remainder work in physicians' offices and clinics, including diagnostic imaging centers.

There may not be enough openings for all graduates in the Tri-State Delaware Valley area, so some may need to leave the area to gain employment.

Please consult the U.S. Occupational Information included in the Handbook for further information

Graduate Outcomes

Graduates of the program will:

- Utilize professional communication skills when interacting and collaborating with members of the interdisciplinary health care team and clients
- Evaluate normal and abnormal measurements using evidence-based outcome
- Demonstrate critical thinking when assessing situations, solving problems, and making decisions
- Implement holistic care with diverse individuals across the lifespan
- Integrate legal and ethical concepts into the practice of sonography
- Engage in professional development and lifelong learning

To learn more about the program or attend an information session, please visit RCSJ.edu/gc/SelectiveAdmissions.
## Nursing and Health Professions

### Selective Admissions

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<td>Cross Section Anatomy</td>
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Nuclear Medicine Technology (NMT)

[AAS-NMT; CIP Code 510905]

Associate in Applied Science (A.A.S.) — Career

Nuclear Medicine is the use of radioactive materials and sophisticated electronic scanning equipment for the diagnosis and treatment of certain suspected or known disorders of the human body. Students enrolled in the Nuclear Medicine Technology (NMT) program spend the first year completing the core Liberal Arts and Science classes. The second year begins in May and is specific to NMT didactic and clinical instruction.

The program is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology and the New Jersey Department of Environmental Protection. Upon successful completion of the NMT program requirements, graduates are eligible to apply for Board Certification through national certifying agencies: The American Registry of Radiologic Technologists and the Nuclear Medicine Technology Certification Board.

NMT students must complete the minimum number of required hours of clinical instruction, which are scheduled throughout the program in collaboration with clinical affiliates. Clinical hours occur during all College sessions.

Program Information

Nuclear Medicine Technology (NMT) is a selective admission program. Students must be accepted to the program prior to registering for any NMT courses. Please contact the Enrollment Services office for an admission packet.

Clinical agencies require criminal history background checks (CHBC) for all individuals engaged in patient care. All students must undergo a CHBC upon acceptance into the NMT program. CHBC results are sent to the clinical agencies, who have the sole discretion to decide if the student may engage in patient care at the agency. If a student is denied the opportunity to participate in the clinical agency as a result of the findings of the CHBC, the student will be dismissed from the NMT program.

Students must satisfactorily complete all 100-level NMT courses to progress to 200-level NMT courses. Students who do not meet prerequisite and co-requisite course requirements, and/or grade requirements will not be able to progress in the NMT program.

Students must complete the NMT program in three years from the start of the first NMT course.

Students who do not complete the program within three years must wait five years before reapplying to the NMT program. A minimum grade of “C” is required in all courses in the NMT program of study including General Education and Science courses.

Control sheet effective for students entering 9/2019

FIRST YEAR –

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<td>CHM 111</td>
<td>General Chemistry I 4</td>
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<td>PSY 101</td>
<td>General Psychology 3</td>
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<td>NMT 116</td>
<td>Basic Nuclear Medicine Procedures 2</td>
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SECOND YEAR –

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<td>Clinical Internship I 10</td>
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<td>Clinical Imaging Procedures II 1</td>
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<td>Nuclear Instrumentation and Statistics 2</td>
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<td>Clinical Imaging Procedures III 1</td>
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TOTAL MINIMUM CREDITS: 60

In order to progress through the NMT program, all students must maintain a Cumulative Grade Point Average (GPA) of 2.00 or higher and earn a grade of C or higher in all program required courses. All science courses must have been completed within the 5-year period prior to the beginning of the first NMT course. Refer to course description section of this catalog for prerequisite/ co-requisite course requirements.
Nursing
LPN – RN

[AS-NUR-LPN; CIP Code 513801]

Associate in Science (A.S.) — Transfer
This program combines general education with nursing courses to prepare currently Licensed Practical Nurses (LPN) for entry-level Registered Nursing (RN) practice. Upon successful completion of the program, graduates are eligible to apply to take the National Council Licensing Examination (NCLEX-RN) and to apply to a Board of Nursing for licensure as an RN. The Nursing program is accredited by the New Jersey Board of Nursing and the Accreditation Commission for Education in Nursing (ACEN).

Selective Admissions Requirements
The Nursing program is a selective admission program. Students must be accepted to the program prior to registering for any NUR classes. Please contact the Admissions Office for an Admission Packet outlining the steps to apply.

Clinical Agencies require criminal history background checks (CHBC) for all individuals engaged in patient care. All students must undergo CHBC upon acceptance into the Nursing program. CHBC results are sent to the clinical agencies, who have the sole discretion to decide if the student may engage in patient care at the agency. If a student is denied the opportunity to participate in the clinical agency as a result of CHBC findings, the student will be dismissed from the Nursing program.

Students must satisfactorily complete all 100-level nursing courses and BIO 105 Anatomy and Physiology I, BIO 106 Anatomy and Physiology II and PSY 211 Psychology of Human Development to progress to 200-level Nursing course. Students who do not meet pre-requisite and co-requisite course requirements and/or grade requirements will not be able to progress in the Nursing program.

Students must complete the Nursing program in three years from the start of the first Nursing course. Students who do not complete the program within three years must wait five years before reapplying to the Nursing program. A minimum grade of "C" is required in all courses in the Nursing program of study including General Education and Science courses.

To learn more about the program or attend an information session, please visit RCSJ.edu/gc/SelectiveAdmissions.

THE FOLLOWING COURSES MUST BE COMPLETED PRIOR TO STARTING THE LPN TO RN PROGRAM:

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>SOC 101 Principles of Sociology</td>
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Winter Semester
NUR 123 LPN-RN Transition 2
Additional nursing credits are granted upon completion of LPN-RN Transition course. 6

Spring Semester
ENG 102 English Composition II 3
HPE 136 Nutrition 3
PSY 211 Psychology of Human Development 3
NUR 141 Nursing II 7
NUR 140 Nursing II Lab 1

SECOND YEAR —
Fall Semester
BIO 215 Microbiology 4
NUR 215 Nursing III 8
___ ___ Humanities elective 3
15

Spring Semester
NUR 221 Nursing IV 8
NUR 220 Transition to Practice 3
NUR 207 Nursing Issues and Trends 1
12

TOTAL MINIMUM CREDITS 69
Nursing (NUR)  
Generic Program  
[AS-NUR; CIP Code 513801]  

**Associate in Science (A.S.) — Transfer**  
The Nursing program at RCSJ is a four-semester sequential program. Each semester builds on previously learned knowledge and skills. The goal of the Nursing program is to prepare students for entry-level positions as Registered Nurses. Upon successful completion of the Nursing program, students are eligible to apply for state licensure and sit for the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

**Program Information**  
The American Nurses Association defines nursing as “the protection, promotion and optimization of health and abilities, prevention of illness and injury, facilitation of healing, alleviation of suffering through the diagnosis and treatment of human response, and advocacy in the care of individuals, families, groups, communities and populations.” (ANA, 2017).

Nursing also encompasses autonomous and collaborative care of individuals of all ages, families, groups and communities, sick or well, and in all settings. Nursing includes the promotion of health, prevention of illness and the care of ill, disabled and dying people. Advocacy, promotion of a safe environment, research, participation in shaping health policy and in patient and health systems management and education are also key nursing roles.

**Special Admission Requirements**  
Nursing is a selective admission program. Students must be accepted to the program prior to registering for any NUR courses. Please contact the Enrollment Services Office for an admission packet.

Clinical agencies require criminal history background checks (CHBC) for all individuals engaged in patient care. All students must undergo a CHBC upon acceptance into the Nursing Program. CHBC results are sent to the clinical agencies, who have the sole discretion to decide if the student may engage in patient care at the agency. If a student is denied the opportunity to participate in the clinical agency as a result of the findings of the CHBC, the student will be dismissed from the Nursing Program.

Students must satisfactorily complete all 100-level nursing courses and BIO 105 Anatomy and Physiology I, BIO 106 Anatomy and Physiology II and PSY 211 Psychology of Human Development to progress to 200-level Nursing course. Students who do not meet prerequisite and co-requisite course requirements, and/or grade requirements will not be able to progress in the Nursing program.

Students must complete the Nursing program in three years from the start of the first Nursing course.

Students who do not complete the program within three years must wait five years before reapplying to the Nursing program. A minimum grade of “C” is required in all courses in the Nursing Program of Study including General Education and Science courses.

**Employment Opportunities**  
“RNs practice in all healthcare settings: hospitals, nursing homes, medical offices, ambulatory care centers, community health centers, schools and retail clinics. They also provide health care in more surprising locations such as camps, homeless shelters, prisons, sporting events and tourist destinations.” (ANA, 2017)

**Outcomes**  
Graduates of the Nursing program will:
- Implement holistic care with diverse individuals across the lifespan
- Evaluate therapeutic nursing interventions using evidence-based outcomes
- Demonstrate critical thinking when assessing situations, solving problems and making decisions
- Utilize professional communication skills when interacting and collaborating with members of the interdisciplinary health care team and clients
- Integrate legal and ethical concepts into the practice of nursing
- Engage in professional development and lifelong learning

**Highlights**  
The Nursing program is accredited by The New Jersey Board of Nursing and the Accreditation Commission for Education in Nursing (ACEN). Since 2000, the NCLEX-RN pass rate has been greater than 90 percent.

To learn more about the program or attend an information session, please visit [RCSJ.edu/gc/SelectiveAdmissions](http://RCSJ.edu/gc/SelectiveAdmissions).
## Nursing and Health Professions

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<th>Course Name</th>
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<td>BIO 105</td>
<td>Anatomy and Physiology I</td>
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<tr>
<td></td>
<td>NUR 131</td>
<td>Nursing I</td>
<td>7</td>
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<td></td>
<td>NUR 130</td>
<td>Nursing I Lab</td>
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<td>Spring Semester</td>
<td>BIO 106</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
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<td>PSY 211</td>
<td>Psychology of Human Development</td>
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<td>HPE 136</td>
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<td><strong>SECOND YEAR —</strong></td>
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<td>Fall Semester</td>
<td>ENG 102</td>
<td>English Composition II</td>
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<td></td>
<td>BIO 215</td>
<td>Microbiology</td>
<td>4</td>
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<td>NUR 215</td>
<td>Nursing III</td>
<td>8</td>
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<td>SOC 101</td>
<td>Principles of Sociology</td>
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<td>Spring Semester</td>
<td>NUR 221</td>
<td>Nursing IV</td>
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<td>NUR 220</td>
<td>Transition to Practice</td>
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<td>NUR 207</td>
<td>Nursing Issues and Trends</td>
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<tr>
<td><strong>TOTAL MINIMUM CREDITS:</strong></td>
<td></td>
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<td>69</td>
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</tbody>
</table>
Physical Therapist Assistant

[AAS-PTA; CIP Code 510806]

Associate in Applied Science (A.A.S.) — Career

The Physical Therapist Assistant program prepares the physical therapist assistant (PTA) to provide physical therapy interventions and components of therapeutic measurement under the direction and supervision of a licensed physical therapist.

Program Information

- Upon graduation from the PTA program, students will be eligible to take the National Physical Therapy Examination for Physical Therapist Assistants to determine competence for licensure application and thus will be able to work in a variety of patient settings. Students receive acceptance into the program once, yearly, for the Spring semester. Petitions for entry into the program will be made available to students during the preceding Spring/Summer semester.

- PTA technical coursework begins during the Spring semester and concludes with two six-week, full-time clinical affiliations in the subsequent Spring semester, just prior to graduating in May. Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course pre-requisites. HPE 106 is a PTA required course available to program participants only.

Program Goals

1. To provide a safe, nurturing environment for the enhancement of academic and clinical learning through provision of instruction from a qualified faculty of physical therapy educators and clinicians who are committed to experiences that translate into the safe, effective and ethical treatment of patients through the use of PT interventions which follow the principles of evidence-based practice

2. To provide the effective resources and mentorship for program graduates to be successful takers of the NPTE for PTAs, then seek and obtain gainful employment after graduation

3. To graduate knowledgeable entry-level professional physical therapist assistants who are well-versed in the PTA’s point of entry into the patient/client management model and who continue to value life-long learning and commitment to the surrounding community far beyond graduation from the program

The Physical Therapist Assistant Program at Rowan College of South Jersey is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, VA 22314, phone: 703-706-3245, email: accreditation@apta.org, website: http://www.capteonline.org.

If needing to contact the program directly, please call 856-415-2188 or email lcouch@rcsj.edu.

Expected Student Outcomes

At the completion of the Physical Therapist Assistant program, a graduate will:

1. Qualify to take the National Physical Therapy Examination for Physical Therapist Assistants

2. Demonstrate behavior consistent with the PTA’s established core values of accountability, altruism, compassion and caring, cultural competence, duty, integrity and social responsibility

3. Work within the scope of practice as defined by the physical therapy licensing act and all pertaining laws and regulations of the state of practice

4. Use sound judgment for evidence-informed decision making through critical thinking and problem solving

5. Identify career development and lifelong learning opportunities

In addition, as an entry-level physical therapist assistant, under the supervision of a licensed physical therapist, and within the patient’s established plan of care, a RCSJ graduate will be able to:

6. Exhibit professional behaviors in the role as a responsible physical therapist assistant by providing safe, ethical and legal care

7. Demonstrate entry-level competency in all required intervention skills of a PTA including:
   a. Performance of manual techniques and application of biophysical agents
   b. Provision of transfer, gait, activities of daily living and functional training
   c. Instruction of therapeutic exercise and of patient and care giver education, and
   d. Progression of therapy interventions to achieve long term and short term goals

8. Communicate with patients/clients, caregivers and members of the health care team about the plan of care required in the rehabilitation process

9. Identify characteristics of pathology, patient diseases and conditions and pharmacology that will affect patient’s therapy outcomes

10. Complete and report patient data collection which communicates the need and rationale for continued physical therapy intervention

11. Document a patient’s progress in the health record to comply with facility and payer regulations consistent with the health care delivery system

12. Act in accordance with all emergency procedures related to the setting of practice
Nursing and Health Professions

Special Program Admission Requirements

Physical Therapist Assistant is a selective admission program. Students must be accepted into the program prior to registering for HPE 106 Health and Wellness Promotion in Physical Therapy or any PTA courses. Please contact the Enrollment Services office for an admission packet.

Clinical agencies require criminal history background checks (CHBC) for all individuals engaged in patient care. All students must undergo a CHBC upon acceptance into the PTA Program. CHBC results are sent to the clinical agencies, which have the sole discretion to decide if the student may engage in patient care at the agency. If a student is denied the opportunity to participate in the clinical agency as a result of the findings of the CHBC, the student will be dismissed from the PTA Program.

A minimum grade of "C+" is required in all BIO courses and MAT 115, and a minimum grade of "C" is required in all other courses. A minimum grade of 76% is required in all PTA designated courses, and in order to progress through the PTA program, students must maintain a cumulative GPA of 2.00 or higher.

Admission Requirements

Prospective applicants will be required to include with the admission packet documentation of observation in a physical therapy clinic or department. A minimum of 25 hours must be completed in no less than two different settings (outpatient and inpatient or hospital.) Documentation must contain the date of observation, the start and stop times, the supervising clinician’s signature and the clinician’s legibly written name and license number.

Applicants must also pass the HESI exam with the minimum required scores.

The most up-to-date application information is on the College’s website at RCSJ.edu/gc/SelectiveAdmissions.

Program Notes

1 Refer to the course description section of this catalog for prerequisite and co-requisite course requirements.

2 HPE 106 is only offered to students who are accepted into the PTA program. Required for graduation with A.A.S. degree at RCSJ; Applied general education course for PTA program.

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Summer Semester</td>
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<tr>
<td>ENG 101</td>
<td>English Composition I</td>
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<tr>
<td>MAT 115</td>
<td>College Geometry</td>
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<td>Fall Semester</td>
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<tr>
<td>ENG 102</td>
<td>English Composition II</td>
<td>3</td>
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<tr>
<td>PSY 101</td>
<td>General Psychology</td>
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<tr>
<td>Fall 1 - 7 weeks</td>
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<td>BIO 105</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
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<tr>
<td>Fall 2 - 7 weeks</td>
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<tr>
<td>BIO 106</td>
<td>Anatomy and Physiology II</td>
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<td>Spring Semester</td>
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<tr>
<td>PTA 101</td>
<td>Introduction to Physical Therapist Assisting</td>
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<tr>
<td>PTA 102</td>
<td>Kinesiology and Measurement</td>
<td>6</td>
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<tr>
<td>HPE 106</td>
<td>Health and Wellness Promotion in PT 2</td>
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<tr>
<td>Summer Semester</td>
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<td></td>
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<tr>
<td>PTA 105</td>
<td>Pathophysiology for the PTA</td>
<td>2</td>
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<tr>
<td>PTA 107</td>
<td>Essential Skills I: Patient Care</td>
<td>4</td>
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<tr>
<td>PTA 210</td>
<td>Orthopedics for the PTA</td>
<td>1</td>
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</tbody>
</table>
| SECOND YEAR —
| Fall Semester |
| PTA 207 | Essential Skills II: Biophysical Agents         | 4       |
| PTA 208 | Neurological d/o Across the Lifespan            | 4       |
| PTA 209 | Clinical Experience I                           | 2       |
| PTA 216 | Cardiovascular and Pulmonary PT                 | 2       |
| Spring Semester |
| PTA 229 | Clinical Experience II                          | 6       |
| PTA 239 | Clinical Experience III                         | 6       |
| PTA 240 | Seminar in PTA Professionalism                  | 1       |
| TOTAL MINIMUM CREDITS: | | 60 |

1 Refer to the course description section of this catalog for prerequisite and co-requisite course requirements.

2 HPE 106 is only offered to students who are accepted into the PTA program. Required for graduation with A.A.S. degree at RCSJ; Applied general education course for PTA program.
Arts and Sciences

[AS-ASC; CIP Code 240101]

Associate in Science (A.S.) — Transfer

This program is designed for those students who have selected a major field of concentration and yet want more flexibility in course selection. The program is designed to meet transfer requirements for students pursuing a Bachelor of Science degree. It is suggested, however, that students seek advisement in course selection from the institutions to which they intend to transfer.

Program Learning Outcomes

Students who have completed the program will be able to:

• Demonstrate application of theoretical concepts and fundamental principles utilized in the sciences, including use of the scientific method
• Conduct background research on scientific topics to make educated conclusions and demonstrate ability to access and assess information including understanding of basic concepts, processes and keywords necessary to explore topics
• Communicate with others in written and oral form and present scientific information effectively
• Operate basic laboratory equipment successfully
• Apply critical thinking and problem-solving skills to solving scientific research problems including utilizing statistics and graphical analyses

Program Notes

Students must complete all Arts and Science (A.S.) required courses (41 credits) plus 24 credits selected from the Science Elective Pairs and designated courses.

1 Two or three pairs of science electives may be selected from the following:

<table>
<thead>
<tr>
<th>If you take this course</th>
<th>... you must take this course in the second semester</th>
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</thead>
<tbody>
<tr>
<td>BIO 101</td>
<td>BIO 102</td>
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<tr>
<td>BIO 105</td>
<td>BIO 106</td>
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<td>BIO 112</td>
<td>BIO 212</td>
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<td>BIO 115</td>
<td>BIO 216</td>
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<td>CHM 111</td>
<td>CHM 112</td>
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<td>CHM 201</td>
<td>CHM 202</td>
</tr>
<tr>
<td>PHY 103</td>
<td>PHY 104</td>
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<tr>
<td>PHY 201</td>
<td>PHY 202</td>
</tr>
</tbody>
</table>

If two Science Elective Pairs are selected from the table then two additional science courses must be selected from the following:

CHM 111, CHM 201, BIO 101, BIO 103, BIO 104, BIO 105, BIO 106, BIO 107, BIO 112, BIO 113, BIO 116, BIO 140, BIO 209, BIO 212, BIO 215, BIO 216, BIO 221, PHY 103, PHY 105, PHY 111, PHY 112, PHY 201, PHY 203

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR — Credits

<table>
<thead>
<tr>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>ENG 101</td>
<td>English Composition I</td>
</tr>
<tr>
<td>CSC 101</td>
<td>Introduction to Programming or</td>
</tr>
<tr>
<td>CSC 111</td>
<td>Intermediate Programming</td>
</tr>
<tr>
<td>MAT 110</td>
<td>Algebra and Trigonometry</td>
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<tr>
<td></td>
<td>Science elective pair I (first semester)</td>
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<tr>
<td></td>
<td>Science elective pair I (second semester)</td>
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<tr>
<td></td>
<td>Social Science or</td>
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<td></td>
<td>Humanities elective</td>
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<td></td>
<td>English Composition II</td>
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<tr>
<td></td>
<td>Pre-Calculus and Mathematical Analysis</td>
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<td></td>
<td>Science elective pair II (first semester)</td>
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<td>Science elective</td>
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<td>Humanities elective</td>
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<td>Health and Physical Education elective</td>
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SECOND YEAR — Credits

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<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>MAT 108</td>
<td>Calculus I</td>
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<td></td>
<td>Science elective pair II (first semester)</td>
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<td>Science elective</td>
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<td>Humanities elective</td>
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<tr>
<td>HPE</td>
<td>Health and Physical Education elective</td>
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<td>Social Science elective</td>
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<td>General Education elective</td>
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<td>Science elective</td>
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<td>Social Science elective</td>
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<td></td>
<td>Science elective</td>
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</tbody>
</table>

TOTAL MINIMUM CREDITS: 60

Contact Person

Dr. Susan Glenn, Associate Professor, Biology
sglenn@rcsj.edu
Arts and Sciences: Physics Option
[AS-ASC-PHY; CIP Code 240101]

Associate in Science (A.S.) — Transfer
The Arts and Sciences: Physics Option will provide students two years of concentrated study for those who plan to pursue a baccalaureate degree in physics or related disciplines. Humanities and social science electives are incorporated to provide a broad educational experience.

Program Learning Outcomes
Students who have completed the program will be able to:
• Understand and apply fundamental principles to the study of science overall including the health sciences
• Develop and demonstrate the basic skill set, techniques and procedures required to do laboratory work in the physics and physics-related sciences

Program Notes
Students planning to transfer to Rowan University should:
1. Take a non-PHI class for the Humanities elective
2. Take a non-SOC class for the Social Science elective
3. Take PHYS 00300 Modern Physics, on Rowan University’s campus in Spring semester of their second year

Contact Person
Dr. Nasra Sultana, Assistant Professor
nsultana@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —
Fall Semester
ENG 101 English Composition I 3
PHY 121 Physics for Everyday Life or 4
PHY 105 Modern Astronomy 4
CHM 111 General Chemistry I 4
MAT 108 Calculus I 4
15

Spring Semester
ENG 102 English Composition II 3
PHY 201 Physics I (calculus-based) 4
CHM 112 General Chemistry II 4
MAT 122 Calculus II 4
15

SECOND YEAR —
Fall Semester
PHY 202 Physics II (calculus-based) 4
MAT 221 Calculus III 4
MAT 202 Linear Algebra 3
Free elective 2-4
SOC 130 Society and Technology 3
16-18

Spring Semester
MAT 205 Differential Equations 4
PHY 203 Physics III (calculus-based) 4
Humanities elective 3
Social Science elective 3
14

TOTAL MINIMUM CREDITS: 60
Science, Technology, Engineering and Mathematics (STEM)

Biology
[AS-BIO; CIP Code 260101]

Associate in Science (A.S.) — Transfer

For those students interested in a biology-oriented career (pre-med, environmental science, forestry, etc.) this program provides a concentrated study of the first two years toward a baccalaureate degree. Although science and math are stressed, humanities and social science electives aid in providing a broad educational experience. Students are advised to check the requirements of their anticipated vocation or bachelor's degree program at the college to which they intend to transfer.

Program Learning Outcomes

Students who have completed the program will be able to:

• Demonstrate application of theoretical concepts and fundamental principles in the biological sciences, including use of the scientific method

• Conduct background research on life science topics to make educated conclusions and demonstrate ability to access and assess information including understanding of basic concepts, processes and keywords necessary to explore topics

• Communicate with others in written and oral form and present life science information effectively

• Operate basic laboratory equipment successfully including microscopes, measurement devices and computer technologies

• Apply critical thinking and problem-solving skills to solving biology-based problems including utilizing statistics and graphical analyses

Program Notes

Students should consult the institutions to which they wish to transfer when selecting elective courses.

Contact Person

Dr. Jessica DeGraff, Associate Professor, Biology
jdegraff@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall Semester</td>
</tr>
<tr>
<td>ENG 101 English Composition I</td>
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<tr>
<td>BIO 101 General Biology I</td>
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<tr>
<td>CHM 111 General Chemistry I</td>
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<tr>
<td>MAT 108 Calculus I</td>
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<tr>
<td>15</td>
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<tr>
<td>Spring Semester</td>
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<tr>
<td>ENG 102 English Composition II</td>
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<tr>
<td>BIO 102 General Biology II</td>
</tr>
<tr>
<td>CHM 112 General Chemistry II</td>
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<tr>
<td>COM 105 Technical and Scientific Writing</td>
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SECOND YEAR —

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<tr>
<td>Fall Semester</td>
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<tr>
<td>CHM 201 Organic Chemistry I</td>
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<tr>
<td>BIO 209 Ecology</td>
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<tr>
<td>Social Science elective</td>
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<tr>
<td>Free elective</td>
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<tr>
<td>CSC 101 Introduction to Programming or</td>
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<tr>
<td>CSC 111 Intermediate Programming</td>
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<tr>
<td>Spring Semester</td>
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<tr>
<td>CHM 202 Organic Chemistry II</td>
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<tr>
<td>BIO 215 Microbiology or</td>
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<tr>
<td>BIO 221 Cell and Molecular Biology</td>
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<tr>
<td>Social Science or Humanities elective</td>
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<tr>
<td>HPE Health and Physical Education elective</td>
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<td>Humanities elective</td>
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TOTAL MINIMUM CREDITS: 60
Biology: Bioscience Technologies Option
[AS-BIO-TEC; CIP Code 260101]

Associate in Science (A.S.) — Transfer

This Biology program option provides students with the basic course requirements necessary to satisfy the first three years of a baccalaureate degree in Bioscience Technologies (Biotechnology, Cytotechnology, Medical Technology) at a transfer institution. A “C” grade or better in each course is required for transfer. Biotechnology is the field in which biological and engineering principles are used to develop products and techniques for advances in gene therapy, new tests to diagnose and pharmaceuticals to treat a variety of diseases or new ways of studying the molecular and genetic structure of cells.

Program Learning Outcomes

In addition to the outcomes stated for the A.S. Biology program, students who have completed this option will be able to:

• Apply biological principles to solve problems in health care and in the design of pharmaceutical products
• Possess the laboratory techniques and skills necessary to contribute to the design, research, development and pre-clinical testing of diagnostic and therapeutic agents, methods and systems for health care
• Possess specific technical and problem-solving skills required for biomedical settings in the medical, pharmaceutical and industrial chemical industries

Program Notes

Students planning to transfer to Thomas Jefferson University will require two additional courses selected from the following options: BIO 140 Science of Nutrition, CHM 202 Organic Chemistry II, CSC 101 Introduction of Programming or CSC 111 Intermediate Programming, HPE 136 Nutrition or PHY 103 General Physics I.

Contact Person

Dr. Susan Glenn, Associate Professor, Biology
sglenn@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>Eng 101 English Composition I</td>
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<tr>
<td>BIO 101 General Biology I</td>
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<tr>
<td>CHM 111 General Chemistry I</td>
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<tr>
<td>MAT 107 Pre-Calculus and Math Analysis</td>
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<th>Credits</th>
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<tbody>
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<td>BIO 102 General Biology II</td>
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<td>CHM 112 General Chemistry II</td>
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<tr>
<td>MAT 108 Calculus I</td>
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SECOND YEAR —

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<td>BIO 209 Ecology</td>
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<td>BIO 215 Microbiology</td>
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<td>BIO 105 Anatomy and Physiology I</td>
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<tr>
<th>Credits</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>CHM 201 Organic Chemistry I</td>
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<td>BIO 221 Cell and Molecular Biology</td>
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<td>____ Social Science or Humanities elective</td>
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<td>HPE ____ HPE elective</td>
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<td>BIO 106 Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>16–18</td>
</tr>
</tbody>
</table>

TOTAL MINIMUM CREDITS: 64
Chemistry
[AS-CHM; CIP Code 400501]

Associate in Science (A.S.) — Transfer

This curriculum provides two years of concentrated study in science for those who plan to pursue a baccalaureate degree in chemistry. Humanities and social science electives are incorporated to provide a broad educational experience. Students are advised to plan their course selection based on the requirements of the vocation or curriculum of the four-year college of their choice.

Program Learning Outcomes

Students who have completed the program will be able to:
• Demonstrate competency in fundamental inorganic and organic chemistry topics by applying critical thinking and problem solving skills to solving chemistry/biology-based problems including utilizing graphical analyses
• Develop and demonstrate the basic skill set of techniques and procedures, including recording and reporting of scientific information acquired in the laboratory, necessary to perform scientifically sound laboratory work in the chemical sciences

Program Notes

Students should consult the institutions to which they wish to transfer when selecting elective courses.

1. It is highly recommended that students planning to transfer as pre-med or to any health science related program take BIO 102 General Biology II as their General Education elective in First Year Spring Semester.

2. Program elective courses include: MAT 221 Calculus III, MAT 202 Linear Algebra, CSC 101 Introduction to Programming or CSC 111 Intermediate Programming.

3. Students planning to transfer to Rowan University should:
   a. Take a Social Science elective as social science or humanities elective.
   b. Take CHEM 09250, Quantitative Analysis on Rowan University’s campus in Spring semester of their second year if planning to major in Chemistry.
   c. Take BMS 01205, Introduction to Biomedical Science I and BMS 01210, Introduction to Biomedical Sciences II during their Fall and Spring semesters of their second year respectively, if planning to major in Translational Biomedical Sciences.

Contact Person

Dr. Christina Nase, Dean, STEM
Assistant Professor, Chemistry
cnase@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR — Credits
Fall Semester
ENG 101 English Composition I 3
BIO 101 General Biology I 4
CHM 111 General Chemistry I 4
MAT 108 Calculus I 4
15
Spring Semester
ENG 102 English Composition II 3
____ ____ General Education elective1 3-4
CHM 112 General Chemistry II 4
MAT 122 Calculus II 4
COM 105 Technical and Scientific Writing 3
17-18

SECOND YEAR — Credits
Fall Semester
CHM 201 Organic Chemistry I 4
PHY 201 Physics with Calculus I 4
____ ____ Humanities elective 3
____ ____ Program elective2 3-4
14-15
Spring Semester
CHM 202 Organic Chemistry II 4
PHY 202 Physics with Calculus II 4
____ ____ Social Science or Humanities elective3 3
____ ____ Social Science elective 3
14
TOTAL MINIMUM CREDITS: 60
Chemistry: Pre-Pharm.D. Option
[AS-CHM-PHA; CIP Code 400501]

Associate in Science (A.S.) — Transfer

This Chemistry program option provides students with the basic course requirements to satisfy the first two years of a Doctor of Pharmacy (Pharm.D.) at a transfer professional institution. A minimum grade of “C” is usually needed for any course to transfer. In addition, students must successfully complete the PCAT and any other transfer application requirements specified by the pharmacy school.

Program Learning Outcomes

Students who have completed the program will be able to:
• Demonstrate competency in fundamental inorganic and organic chemistry topics by applying critical thinking and problem solving skills to solving chemistry/biology-based problems including utilizing graphical analyses
• Develop and demonstrate the basic skill set of techniques and procedures, including recording and reporting of scientific information acquired in the laboratory, necessary to perform scientifically sound laboratory work in the chemical sciences

Program Notes

Students should contact the transfer advisor to determine appropriate transfer requirements to four-year colleges.

1 Students planning to transfer to University of Maryland – Eastern Shore Pharmacy School must take as their general education elective a three-credit course in one of the following areas: Sociology, Psychology, Arts, Music or History.

2 Students planning to transfer to University of Maryland – Eastern Shore Pharmacy School must take SPE 101 Oral Communication in place of an HPE course.

3 Students planning to transfer to University of Maryland – Eastern Shore Pharmacy School must take MAT 103 Statistics in place of BIO 102 General Biology II.

4 Students planning to transfer to University of the Sciences in Philadelphia must take BIO 105 Anatomy and Physiology I and BIO 106 Anatomy and Physiology II equivalents (BS 310 and BS 311) at the University of the Sciences upon transfer and reverse transfer those courses back to RCSJ to earn the A.S. CHM Pre-Pharm.D. option from RCSJ.

5 Students planning to transfer to University of Maryland – Eastern Shore Pharmacy School must take ECO 100 Introduction to Economics in place of PHY 104 General Physics II.

Contact Person
Dr. Robert Rossi, Professor, Chemistry
rossi3@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall Semester</td>
<td>ENG 101 English Composition I</td>
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<tr>
<td></td>
<td>CHM 111 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIO 101 General Biology I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>—— General Education elective</td>
<td>3–4</td>
</tr>
<tr>
<td></td>
<td>HPE — Health and Physical Education elective</td>
<td>1–3</td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td>Spring Semester</td>
<td>ENG 102 English Composition</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHM 112 General Chemistry II</td>
<td>4</td>
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<td></td>
<td>BIO 102 General Biology II³</td>
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<tr>
<td></td>
<td>MAT 108 Calculus I</td>
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<td>—— Social Science elective</td>
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SECOND YEAR —

<table>
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<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>Fall Semester</td>
<td>CHM 201 Organic Chemistry I</td>
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<td>PHY 103 General Physics I</td>
<td>4</td>
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<td>BIO 105 Anatomy &amp; Physiology I³</td>
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<td></td>
<td>BIO 215 Microbiology</td>
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<td>Spring Semester</td>
<td>CHM 202 Organic Chemistry II</td>
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<td>PHY 104 General Physics II³</td>
<td>4</td>
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<td>BIO 106 Anatomy and Physiology II³</td>
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<td>—— Social Science or Humanities elective</td>
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<td>—— Humanities elective</td>
<td>3</td>
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</table>

TOTAL MINIMUM CREDITS: 67
Computer Science
[AS-CSC; CIP Code 110701]

Associate in Science (A.S.) — Transfer

The goal of this program is to provide the first two years of a Computer Science baccalaureate degree program for the students who wish to transfer to a four-year program in Computer Science. The core curriculum will provide foundations in programming and problem solving, data representation and algorithms, object-oriented programming, computer organization and assembly language programming fulfilling the core competencies of critical thinking and information technology. Although this program is primarily designed for students to transfer to a four-year program, after successful completion of this program, students will also find job opportunities in computer science and information technology areas.

Program Learning Outcomes
Students who have completed the program will be able to:
• Learn fundamental principles, theories and analytical skills to solve computing problems throughout the program
• Analyze, design, choose the interface, coding, test and debug to effectively develop error-free computer programs
• Learn computer architecture, software design and programming that are most widely used in engineering, science and technology-related fields
• Identify, formulate and solve problems and learn to adapt to evolving computer languages, systems and industry standards

Program Notes
Students should contact the transfer advisor to determine appropriate transfer requirements to four-year colleges.

Electives:
Humanities elective/Social Science elective: 6 credits — must be chosen from the approved list of General Education courses. Refer to the College Catalog and/or the Counseling Office.
Mathematics: MAT 202 Linear Algebra or MAT 221 Calculus III

Contact Person
Barun Dandapat, Associate Professor, Computer Science
bdandapat@rcsj.edu

Advisement
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>4</td>
<td>CSC 111 Intermediate Programming</td>
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<td>3</td>
<td>ENG 101 English Composition I</td>
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<td>MAT 108 Calculus I</td>
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<td>3</td>
<td>Humanities elective</td>
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<td>3</td>
<td>SOC 130 Society, Ethics and Technology</td>
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<th>Credits</th>
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<tr>
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<td>CSC 205 Programming in C++</td>
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<td>ENG 102 English Composition II</td>
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<td>MAT 122 Calculus II</td>
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<tr>
<td>4</td>
<td>PHY 201 Physics with Calculus I</td>
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SECOND YEAR —

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<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>4</td>
<td>CSC 203 Assembly Language and Computer Organization</td>
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<tr>
<td>4</td>
<td>CSC 220 Data Structures and Algorithms</td>
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<td>4</td>
<td>MAT 202 Linear Algebra or MAT 221 Calculus III</td>
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<tr>
<td>3</td>
<td>Humanities elective or Social Science elective</td>
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<td>1–4</td>
<td>HPE elective or Free elective</td>
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<td>1–4</td>
<td>Free elective</td>
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<th>Credits</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>4</td>
<td>CSC 210 Object Oriented Programming in Java</td>
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<tr>
<td>3</td>
<td>MAT 201 Discrete Mathematics</td>
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<td>4</td>
<td>PHY 202 Physics with Calculus II</td>
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<tr>
<td>1–4</td>
<td>HPE elective or Free elective</td>
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<tr>
<td>1–4</td>
<td>Free elective</td>
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TOTAL MINIMUM CREDITS: 60
Science, Technology, Engineering and Mathematics (STEM)

Engineering Science

[AS-ENR; CIP Code 140101]

Associate in Science (A.S.) — Transfer

The goal of this program is to provide the first two years of an Engineering Science baccalaureate degree program for students who wish to transfer to a four-year institution as an Engineering Science major.

Program Learning Outcomes

Students who have completed the program will be able to:
• Demonstrate an understanding of engineering materials used in different fields
• Analyze and understand engineering designs
• Deliver an effective and informative oral presentation

Program Notes

1 Students should review requirements at their transfer institutions. Program electives are selected from BIO 101, CHM 201, CHM 202, DFT 103, DFT 113, CSC 203, CSC 220, ENR 211, ENR 212, ENG 213, MAT 202, PHY 203 or SPE 101.

Students planning to transfer to Rowan University should:
• Take SPE 101 as their spring semester second year Program elective
• Take MAT 202
• Refer to their intended Engineering Field of Study advising track sheet for selecting the proper scheduling of courses at RCSJ and Rowan University

Program Electives

Suggested for transfer to Rowan University:

If planning to major in Chemical Engineering, complete
BIO 101 General Biology I and CHM 201 Organic Chemistry I
If planning to major in Civil Engineering, complete ENR 211 Engineering Statics, ENR 212 Mechanics of Materials, CET 108 Introduction to Surveying and DFT 103 CADD I (AutoCAD) or DFT 113 CADD II: Advanced AutoCAD
If planning to major in Computer and Electrical Engineering, complete CSC 203 Assembly Language and Computer Organization and CSC 220 Data Structures and Algorithms
If planning to major in Mechanical Engineering, complete
ENR 211 Engineering Statics, ENR 212 Mechanics of Materials and ENR 213 Dynamics

NOTE: Students planning to transfer to Rowan University into the Henry M. Rowan College of Engineering are likely to complete more than the required 67 credits necessary for graduation from RCSJ.

Contact Person

Gayle Hughes, Instructor I, Engineering
ghughes@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR — Credits

Fall Semester
CHM 111 General Chemistry I 4
CSC 205 Programming in C++ 4
ENG 101 English Composition I 3
MAT 108 Calculus I 4
ENR 102 Freshman Engineering Clinic I 2

17

Spring Semester
CHM 112 General Chemistry II 4
PHY 201 Physics with Calculus I 4
ENR 103 Freshman Engineering Clinic II 2
ENR 207 Engineering Materials 3
MAT 122 Calculus II 4

17

SECOND YEAR — Credits

Fall Semester
ENG 102 English Composition II 3
ENR 201 Sophomore Clinic I 1
MAT 221 Calculus III 4
___ Program elective 1 3–4
PHY 202 Physics with Calculus II 4
___ Humanities elective or Social Science elective 3

18–19

Spring Semester
MAT 205 Differential Equations 4
___ Program elective 1 3–4
ENR 202 Sophomore Clinic II 1
HPE Health and Physical Education elective 1–3
___ Humanities elective 3
SOC 130 Society and Technology 3

15–17

TOTAL MINIMUM CREDITS: 67
Engineering Technologies

Associate in Science (A.A.S.) – Transfer

The Engineering Technologies Program is for students interested in engineering related careers rather than pure engineering science. It is based on understanding the application of engineering principles. The goal of this program is for students to develop the necessary knowledge and skills for gainful employment as land survey technicians and apprentices or transfer to a four-year Engineering Technologies program. The program includes a balance of technologies, science, mathematics, and general education courses to complete their degree and become more effective technologists in the field.

Program Learning Outcomes

Students who have completed the program will be able to:
- Demonstrate and apply the basic principles of route and construction surveying
- Utilize modern measurement technologies to acquire spatial data
- Employ industry-standard software to solve technical problems

Program Notes

1 Technical electives: CET 201 Codes Contracts and Specifications; CET 207 Hydraulics; DFT 203 3-D Modeling. Note that the prerequisite for DFT 203 is DFT 211 Architectural and Civil Planning

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>ENG 101</td>
<td>English Composition I</td>
</tr>
<tr>
<td>MAT 103</td>
<td>Statistics</td>
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<td>DFT 103</td>
<td>CADD I</td>
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<tr>
<td>CSC 111</td>
<td>Intermediate Programming</td>
</tr>
<tr>
<td>GEO 115</td>
<td>Intro. to Mapping and GIS</td>
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<table>
<thead>
<tr>
<th>Credits</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>ENG 102</td>
<td>English Composition II</td>
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<tr>
<td>PHY 111</td>
<td>Earth Science: Land and Sea</td>
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<tr>
<td>MAT 107</td>
<td>Pre-Calculus and Mathematical Analysis</td>
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<tr>
<td>CET 108</td>
<td>Intro. to Surveying</td>
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<table>
<thead>
<tr>
<th>Credits</th>
<th>SECOND YEAR —</th>
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</thead>
<tbody>
<tr>
<td>PHY 112</td>
<td>Earth Science: Air and Space</td>
</tr>
<tr>
<td>SPE 101</td>
<td>Oral Communications</td>
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<tr>
<td>CET 206</td>
<td>Evidence and Procedures for Boundary Location</td>
</tr>
<tr>
<td>DFT 113</td>
<td>CADD II</td>
</tr>
<tr>
<td>PHI 104</td>
<td>Ethics</td>
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<th>Credits</th>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>CSC 205</td>
<td>Programming in C++</td>
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<tr>
<td>MAT 108</td>
<td>Calculus I</td>
</tr>
<tr>
<td>CET 208</td>
<td>Route and Construction Surveying</td>
</tr>
</tbody>
</table>

| Credits | Technical elective¹ | 14 |

TOTAL MINIMUM CREDITS: 60
### Engineering Technologies

**Certificates of Achievement**

The Certificates of Achievement in the Engineering Technologies program will provide students with a concentration of courses that parallel the associate degree program. The certificates below give students the knowledge and skills needed for employment in their respective fields. Once a certificate is completed, students can continue with the remaining course requirements leading to an A.A.S. degree in Engineering Technologies from RCSJ.

**Advisement**

Current students please visit RCSJ.edu(gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu(gc/Appointments to learn more about how to get started.

#### Civil Engineering Technologies

[COA-CACE; CIP Code 150201]

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CET 101 Introduction to Materials</td>
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</tr>
<tr>
<td>CET 108 Introduction to Surveying</td>
<td>3</td>
</tr>
<tr>
<td>CET 203 Applied Statics</td>
<td>3</td>
</tr>
<tr>
<td>CET 204 Structural Systems or CET 205 Applied Strengths and Materials or</td>
<td>3</td>
</tr>
<tr>
<td>CET 208 Route and Construction Surveying</td>
<td>3</td>
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**TOTAL CREDITS:** 12

#### Construction Supervision

[COA-CACS; CIP Code 151001]

<table>
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<tr>
<th>Core Courses</th>
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<tr>
<td>CET 101 Introduction to Materials</td>
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<tr>
<td>DFT 103 CADD I (AutoCad)</td>
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<tr>
<td>CET 201 Codes, Contracts, Specifications</td>
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<tr>
<td>BUS 107 Business Law or CET 209 Cost Estimating or</td>
<td>3</td>
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<tr>
<td>DFT 203 CADD 3D Modeling</td>
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**TOTAL CREDITS:** 12

#### Drafting and Design

[COA-CADD; CIP Code 151302]

<table>
<thead>
<tr>
<th>Core Courses</th>
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<tbody>
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<td>DFT 103 CADD I (AutoCad)</td>
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<tr>
<td>DFT 113 CADD II (Advanced AutoCad)</td>
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<tr>
<td>DFT 211 Architectural and Civil Planning</td>
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<tr>
<td>DFT 203 CADD 3D Modeling</td>
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</table>

**TOTAL CREDITS:** 12

#### Land Surveying

[COA-CALS; CIP Code 151102]

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CET 108 Introduction to Surveying</td>
<td>3</td>
</tr>
<tr>
<td>CET 206 Evidence &amp; Procedures of Boundary Locations</td>
<td>3</td>
</tr>
<tr>
<td>CET 208 Route &amp; Construction Surveying</td>
<td>3</td>
</tr>
<tr>
<td>DFT 103 CADD I (AutoCad)</td>
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</tbody>
</table>

**TOTAL CREDITS:** 12
Environmental Science  
[AS-ENV; CIP Code 03.0104]

Associate in Science (A.S.) — Transfer  
This curriculum provides two years of concentrated study in science for those who plan to pursue a baccalaureate degree in Environmental Sciences. This is a science and math based program to prepare the student for understanding and analyzing data. Communications, Social Science and Humanities courses that put environmental science in the context of history and how to approach solutions are also incorporated. Students are advised to plan their course selection based on the requirements of the vocation or curriculum of the four-year college of their choice.

Program Learning Outcomes  
Students who have completed the program will be able to:
• Understand and apply basic scientific principles to the study of environmental issues overall including the use of resources in a sustainable manner.
• Develop and demonstrate the basic skill set, techniques and procedures required to conduct and analyze field and laboratory work in environmental sciences.

Contact Person  
Dr. Susan Glenn, Associate Professor, Biology
sglenn@rcsj.edu

Advisement  
Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —  
Credits
Fall Semester
ENG 101 English Composition I 3
BIO 101 General Biology I 4
MAT 107 Pre-Calculus and Mathematical Analysis 4
BIO 103 Environmental Science: Ecosystems and Man 4
15
Spring Semester
ENG 102 English Composition II 3
CHM 111 General Chemistry I 4
MAT 108 Calculus I 4
BIO 102 General Biology II 4
15

SECOND YEAR —  
Fall Semester
BIO 209 Ecology: Principles and Processes 4
___ ___ General Education elective 3-4
CHM 112 General Chemistry II 4
___ ___ Humanities elective or 3
___ ___ Social Science elective
COM 105 Technical and Scientific Writing 3
17-18
Spring Semester
MAT 103 Statistics 3
CHM 215 Environmental Chemistry 4
HIS ___ History elective 3
ECO 100 Introduction to Economics or 3
ECO 101 Macroeconomics 13
TOTAL MINIMUM CREDITS: 60
Equine Science

[AS-ESC; CIP Code 010507]

Associate in Science (A.S.) — Transfer

The associate degree in Equine Science will provide students with instruction and practical experience in the management, nutrition, physiology, and care of horses and a strong foundation in biological, chemical, and business principles. A major in Equine Science provides students with a broad curriculum in the sciences to consider a transfer option to a four-year institution or employment in the equine industry.

Program Learning Outcomes

Students who have completed the program will be able to:

• Demonstrate knowledge of theory and practical experience in anatomy, physiology, nutrition, behavior, health and reproduction of the horse
• Relate principles of science, technology, and business to the equine industry while appraising and utilizing primary literature in written and oral communication
• Apply critical thinking and problem-solving skills to evaluating horses, horse management, and facilities

Program Notes

1 Students must select two mathematics electives from the following: MAT 103 Statistics, MAT 107 Pre-Calculus and Mathematical Analysis or MAT 108 Calculus I. Students should check with transfer school equine science program to determine electives.

2 Students planning to transfer to Delaware Valley College or Rutgers University should complete MAT 107 Pre-Calculus and Mathematical Analysis and MAT 103 Statistics. Students planning to transfer to the University of Delaware should complete MAT 103 Statistics and MAT 108 Calculus I.

3 Students planning to apply to Ross University’s Veterinary Medicine Graduate program will need to complete BIO 221 Cell and Molecular Biology as their Science elective, PHY 103 General Physics as their General Education elective, CHM 201 Organic Chemistry I and CHM 202 Organic Chemistry II and complete Biochemistry at another institution

Contact Person

Emily Allen, Assistant Professor, Biology
eallen@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>3</td>
<td>ENG 101 English Composition I</td>
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<td>4</td>
<td>BIO 101 General Biology I</td>
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<tr>
<td>4</td>
<td>BIO 116 Animal Science</td>
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<td>MAT ___ Math elective</td>
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Spring Semester

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<tr>
<td>3</td>
<td>ENG 102 English Composition II</td>
</tr>
<tr>
<td>4</td>
<td>BIO 102 General Biology II</td>
</tr>
<tr>
<td>4</td>
<td>MAT ___ Math elective</td>
</tr>
<tr>
<td>4</td>
<td>BIO 115 Introduction to Equine Science</td>
</tr>
</tbody>
</table>

SECOND YEAR —

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>BIO 216 Equine Capstone Practicum</td>
</tr>
<tr>
<td>4</td>
<td>CHM 111 General Chemistry I</td>
</tr>
<tr>
<td>3</td>
<td>ECO 101 Principles of Economics (Macro)</td>
</tr>
<tr>
<td>3</td>
<td>PSY 101 General Psychology</td>
</tr>
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<td>3</td>
<td>Humanities elective</td>
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<td>16</td>
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Spring Semester

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>CHM 112 General Chemistry II</td>
</tr>
<tr>
<td>3</td>
<td>ECO 102 Principles of Economics II (Micro)</td>
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<tr>
<td>4</td>
<td>Science elective</td>
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<tr>
<td>1-3</td>
<td>HPE or Free elective</td>
</tr>
<tr>
<td>15-18</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL MINIMUM CREDITS: 60
Equine Science

[COA-CAES; CIP Code 010507]

Certificate of Achievement

The Certificate of Achievement (COA) in Equine Science will provide students with the instruction and practical experience in management, nutrition, physiology and care of horses. Students can either complete just the certificate or continue to work toward an associate degree in Equine Science.

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 114 Animal Science</td>
<td>4</td>
</tr>
<tr>
<td>BIO 115 Introduction to Equine Science</td>
<td>4</td>
</tr>
<tr>
<td>BIO 216 Equine Capstone Practicum</td>
<td>3</td>
</tr>
<tr>
<td>BIO ___ Biology elective</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS:** 15
Equine Science: Pre-Veterinary Medicine Option

[AS-ESC-PVM; CIP Code 01.0507]

Associate in Science (A.S.) — Transfer

This Biology program option provides students with the basic course requirements to satisfy the first two years of a baccalaureate degree in Pre-Veterinary Medicine or to apply to a Veterinary Medicine doctoral program that accepts associate degree candidates. Veterinary Medicine doctoral programs will require students complete the GRE and work or volunteer hours in the field.

Program Learning Outcomes

Students who have completed the program will be able to:

• Successfully transfer to four-year institutions in a Pre-Veterinary Medicine program or be accepted into a Veterinary Medicine doctoral program that accepts associate degree candidates.

• Demonstrate knowledge of major concepts in animal and equine science, biology, chemistry, physics and mathematics essential for further study in veterinary medicine.

Program Notes

1 Students must select two math electives from the following: MAT 103 Statistic, MAT 107 Pre-Calculus or MAT 108 Calculus I.

2 Students must select BIO 215 Microbiology or BIO 221 Cell and Molecular Biology for their science elective. Check requirements of transfer institution.

Contact Person

Emily Allen, Assistant Professor, Biology
eallen@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101</td>
<td>General Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 116</td>
<td>Animal Science</td>
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<td>MAT ___</td>
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</tr>
<tr>
<td>CHM 111</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
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</table>

15–16

SECOND SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 102</td>
<td>General Biology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 115</td>
<td>Introduction to Equine Science</td>
<td>4</td>
</tr>
<tr>
<td>ENG 101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>___ ___</td>
<td>Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td>CHM 112</td>
<td>General Chemistry II</td>
<td>4</td>
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18

THIRD SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ENG 102</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 216</td>
<td>Equine Capstone Practicum</td>
<td>3</td>
</tr>
<tr>
<td>___ ___</td>
<td>Social Science elective or Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td>MAT ___</td>
<td>Mathematics elective¹</td>
<td>4</td>
</tr>
<tr>
<td>CHM 201</td>
<td>Organic Chemistry I</td>
<td>4</td>
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</table>

17

FOURTH SEMESTER

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHY 103</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>CHM 202</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>___ ___</td>
<td>Science elective²</td>
<td>4</td>
</tr>
<tr>
<td>PSY 101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HPE ___</td>
<td>Health and Physical Education elective</td>
<td>2</td>
</tr>
</tbody>
</table>

16–18

TOTAL MINIMUM CREDITS: 66
Science, Technology, Engineering and Mathematics (STEM)

Marine Science
[AS-MSC; CIP Code 261302]

Associate in Science (A.S.) — Transfer

The A.S. in Marine Science will provide students with the foundational study of physical, biological and chemical sciences as well as an understanding of the marine environment and its interactions with the earth, the biosphere and the atmosphere. A major in Marine Science provides students with a broad curriculum in the sciences as well as an understanding of marine life and their adaptations.

Program Learning Outcomes

Students who have completed the program will be able to:
• Apply scientific foundation to support upper-level study in marine science as well as related disciplines
• Define marine ecosystems and the diversity of marine organisms
• Integrate learned material with current research to formulate ideas concerning a sustainable future

Program Notes

Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites.

1 Students should check with transfer school marine science program to determine elective.

Contact Person
Dr. Jessica DeGraff, Associate Professor, Biology
jdegraff@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR — Credits

<table>
<thead>
<tr>
<th>Fall Semester</th>
</tr>
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<tbody>
<tr>
<td>ENG 101 English Composition I</td>
</tr>
<tr>
<td>CHM 111 General Chemistry I</td>
</tr>
<tr>
<td>BIO 101 General Biology I</td>
</tr>
<tr>
<td>BIO 112 Introduction to Marine Biology</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102 English Composition I</td>
</tr>
<tr>
<td>CHM 112 General Chemistry II</td>
</tr>
<tr>
<td>BIO 102 General Biology II</td>
</tr>
<tr>
<td>PHI 104 Ethics</td>
</tr>
<tr>
<td>HPE ___ Health and Physical Education elective</td>
</tr>
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</tr>
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</table>

SECOND YEAR —

<table>
<thead>
<tr>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 212 Wetlands Field Ecology</td>
</tr>
<tr>
<td>PHY 103 General Physics I</td>
</tr>
<tr>
<td>MAT 103 Statistics or</td>
</tr>
<tr>
<td>MAT 107 Pre-calculus and Math Analysis</td>
</tr>
<tr>
<td>___ ___ Social Science elective</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 104 General Physics II</td>
</tr>
<tr>
<td>MAT 108 Calculus I</td>
</tr>
<tr>
<td>BIO 2 ___ 200-level Bio elective¹ or</td>
</tr>
<tr>
<td>CHM 201 Organic Chemistry I¹</td>
</tr>
<tr>
<td>___ ___ Social Science elective or</td>
</tr>
<tr>
<td>___ ___ Humanities elective</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

TOTAL MINIMUM CREDITS: 60
Mathematics

[AS-MAT; CIP Code 270101]

Associate in Science (A.S.) — Transfer

This program is designed for students who have chosen Mathematics as a major field of concentration and it will prepare students to transfer into a Bachelor of Science or Bachelor of Arts degree program.

Program Learning Outcomes

Students who have completed the program will be able to:

• Demonstrate theoretical knowledge in advanced mathematics
• Perform abstract mathematical reasoning
• Read, interpret and analyze quantitative information
• Apply mathematical concepts and solve problems

Program Notes

1 Students who need prerequisite Mathematics courses before beginning Calculus I will need more than four semesters to complete the degree
2 Students should consult the institutions to which they wish to transfer when selecting elective courses. Economics is recommended for Social Science elective.
3 A minimum of eight credits in a two-semester laboratory science sequence is required. PHY 201 Physics I (calculus-based) and PHY 202 Physics II (calculus-based) are recommended for most transfer institutions.

Students planning to transfer to Rowan University should:
1. Take ECO 101 Principles of Economics I (Macro) and ECO 102 Principles of Economics II (Micro) as Social Science electives.
2. Take PHY 201 Physics I (calculus-based) and PHY 202 Physics II (calculus-based) as Science electives.
3. Take a four-credit science course as a General Education elective.

Contact Person

Greg Buthusiem, Assistant Professor, Mathematics
gbuthusi@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR — Credits

Fall Semester
ENG 101 English Composition I 3
MAT 108 Calculus I 4
CSC 101 Introduction to Programming 4
___ ___ Social Science elective 3
___ ___ Free elective 1–4
15–18

Spring Semester
ENG 102 English Composition II 3
MAT 122 Calculus II 4
MAT 201 Discrete Mathematics 3
___ ___ Science elective 4
___ ___ Free elective 1–4
15–18

SECOND YEAR —

Fall Semester
MAT 202 Linear Algebra 3
MAT 221 Calculus III 4
___ ___ Science elective 4
SPE 101 Oral Communication 3
14

Spring Semester
MAT 205 Differential Equations 4
MAT ____ Mathematics elective 3–4
___ ___ General Education elective 3–4
___ ___ Humanities elective 3
___ ___ Social Science elective 3
16–18

TOTAL MINIMUM CREDITS: 60
Science, Technology, Engineering and Mathematics (STEM)

Process Technology

[ASS-PTE; CIP Code 150699]

Associate in Applied Science (A.A.S.) – Career

The Process Technology program is designed for students interested in a career working in industrial processing plants. Graduates of this program will be prepared for employment in the pharmaceutical, chemical and petroleum processing industries. The program curriculum will provide students exposure to a scientific background emphasizing hands-on work and critical thinking skills and opportunities for internships throughout the region.

Program Learning Outcomes

Students who have completed this program will be able to:

- Effectively communicate technical concepts in both written and oral form
- Identify process technology systems and troubleshoot abnormal processes
- Operate processing equipment effectively and safely

Program Notes

Students should review requirements at their transfer institutions.

1 PTE Program elective should be selected from: CET 101 Introduction to Materials, CET 207 Hydraulics, DFT 103 CADD I (AutoCAD), DFT 113 CADD II: Advanced AutoCAD or PTE 203 Industrial Process Operations

2 HPE 105 Healthcare Provider Emergency Response with BLS Certification recommended

Contact Person

Dr. Christina Nase, Dean, STEM
Assistant Professor, Chemistry
cnase@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.

FIRST YEAR —

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>English Composition I 3</td>
</tr>
<tr>
<td>MAT 105</td>
<td>Intermediate Mathematics 4</td>
</tr>
<tr>
<td>CHM 107</td>
<td>Introductory Chemistry 4</td>
</tr>
<tr>
<td>PTE 101</td>
<td>Process Technology I: Intro. to Process Technology 3</td>
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</table>
|         |              | 14

Spring Semester

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 110</td>
<td>Algebra and Trigonometry 4</td>
</tr>
<tr>
<td>PTE 102</td>
<td>Process Technology II: Instrumentation 3</td>
</tr>
<tr>
<td>PTE 103</td>
<td>Principles of Occupational Safety and Health 3</td>
</tr>
<tr>
<td>PTE 201</td>
<td>Process Technology Equipment 4</td>
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|         |              | 14

Summer Semester

<table>
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<tr>
<th>Credits</th>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>CEP 211</td>
<td>Cooperative Education Experience 3</td>
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SECOND YEAR —

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 101</td>
<td>Oral Communication 3</td>
</tr>
<tr>
<td>COM 105</td>
<td>Technical and Scientific Writing 3</td>
</tr>
<tr>
<td>PHY 103</td>
<td>General Physics I 4</td>
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<tr>
<td>PTE 202</td>
<td>Process Technology Systems and Troubleshooting 5</td>
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</table>
|         |              | 15

Spring Semester

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>SOC 130</td>
<td>Society, Ethics and Technology 3</td>
</tr>
<tr>
<td>CIS 102</td>
<td>Introduction to Computers 4</td>
</tr>
<tr>
<td>ENG 102</td>
<td>English Composition II 3</td>
</tr>
<tr>
<td></td>
<td>Program elective1 3–4</td>
</tr>
<tr>
<td>HPE 105</td>
<td>Healthcare Provider Emergency Response with BLS Certification2 1</td>
</tr>
</tbody>
</table>
|         |              | 14–15

TOTAL MINIMUM CREDITS: 60
Technical Studies — STEM Track

[ AAS-TEC; CIP Code 159999 ]

Associate in Applied Science (A.A.S.) — Career

The Technical Studies – STEM Track degree program is designed for individuals who wish to validate their prior apprenticeship, industrial or military training and receive college credits for these experiences so that they may complete their degrees. After a formal assessment of this prior learning, technical credits will be awarded.

Program Learning Outcomes

Students who have completed the program will be able to:
• Effectively communicate technical concepts in both written and oral form
• Identify resources, obtain and critically evaluate information
• Demonstrate an understanding of ethical and professional guidelines and policies

Program Notes

1 Technical electives may be selected from any of the following areas: Computer Science – CSC; Civil Engineering Technology – CET; Drafting and Design – DFT; Engineering Science – ENR
2 Technical Credits: College credit will be awarded for military or apprenticeship training programs in the building and construction trades, based upon the American Council on Education (ACE) review and evaluation of the program and their recommendations for awarding academic credit for successful completion of those programs. These credits will be placed on the students’ transcripts when documentation of satisfactory completion is presented by an official of the apprenticeship program and after the student matriculates into a degree program, and has completed 25 credits of course work at Rowan College of South Jersey. College credits for specialized certifications obtained in a corporate or industrial setting may also be awarded, based on the credentials obtained and the documentation provided. From 3 to 25 credits may be awarded, based on the ACE review and the recommendations provided by Student Services. Students with less than 25 credits may select credits from the Technical electives listed above.

Employment Opportunities

The Technical Studies degree program provides technical skill, combined with business and/or additional knowledge that will provide career mobility and open up new opportunities — possibly to be a foreman, a shop steward or to start a business.

Advisement

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FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAT ___ Mathematics elective</td>
<td>3–4</td>
</tr>
<tr>
<td>___ ___ Technical elective¹</td>
<td>3–4</td>
</tr>
<tr>
<td></td>
<td>9–11</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Science elective</td>
<td>4</td>
</tr>
<tr>
<td>___ ___ Technical elective¹</td>
<td>3–4</td>
</tr>
<tr>
<td></td>
<td>10–11</td>
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</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 105 Technical and Scientific Writing</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Humanities elective or Social Science elective</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Technical elective¹</td>
<td>3–4</td>
</tr>
<tr>
<td></td>
<td>9–10</td>
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</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>___ ___ Technical elective¹</td>
<td>3–4</td>
</tr>
<tr>
<td>___ ___ General Education elective</td>
<td>3–4</td>
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<tr>
<td>HPE ___ HPE elective or Free elective</td>
<td>1–4</td>
</tr>
<tr>
<td>___ ___</td>
<td>7–12</td>
</tr>
</tbody>
</table>

² Apply up to 25 Technical Credits, as per Articulation Agreement

TOTAL MINIMUM CREDITS: 60
## General Education Requirements for Academic Programs in New Jersey’s Community Colleges

### A General Education Foundation for Associate in Arts, Associate in Science, Specialized Associate and Certificate program In New Jersey’s Community Colleges

(1997 adoption, 2007 Reaffirmed, August 15, 2007 Revision)  
APPROVED BY PRESIDENTS — 9/6/2011

**General Education Goal(s) addressed** | **Course Categories (Goal Categories)** | **A.A. credits** | **A.S. credits** | **A.A.S., A.F.A. A.S. Nursing credits** | **Certificate credits**
---|---|---|---|---|---
1 | Communications (Written and Oral Com.) | 9 | 6 | 6 | 3
2 | Mathematics — Science — Technology  
Mathematics 3–8 cr. (Quant Knlg. and Skills)  
Science 3–8 cr. (Sci. Knlg. and Rrng.)  
Technological Competency 0–4 cr. | 12 | 9 | 3 | 3
3 | Social Science (Society and Human Behavior) | 6 | 3 | 3 | 3
4 | Humanities (Humanities Perspective) | 9 | 3 | 3 | 3
5 | History (Historical Perspective) | 6 | 3 | 3 | 3
6 | Diversity courses (Global and Cult. Awms.) | 3 | 3 | 3 | 3

**Unassigned general education credit**

**General education foundation total**

### General Education Foundation Course Categories

| Gen. Ed. Foundation Course Categories | NJCC Goal Categories | Course Criteria: Below are brief descriptions of the course criteria for satisfying the requirements. For fuller description see the NJCC GE Course Criteria (September 6, 2011) |
---|---|---
1 Communications | Written and Oral Communications | An array of courses which prepare students to speak, read and write effectively. At least two of these must be composition courses for A.A. and A.S. degrees. At least one of these must be a composition course for specialized degree programs and certificates.
2 Mathematics | Quantitative Knowledge and Skills | Any college level mathematics course including statistics, algebra or calculus course(s). These courses should build upon a demonstrated proficiency in basic algebra.
3 Science | Scientific Knowledge and Reasoning | Any course(s) in the biological or physical sciences - or non-majors survey course. At least one of these courses must have a laboratory component.

### Ethical Reasoning and Action Goal

Course Criteria: Below are brief descriptions of the course criteria for satisfying the requirements. For fuller descriptions, see the NJCC GE Course Criteria

### Information Literacy

These courses include the requirement for students to address an information need by locating, evaluating and effectively using information.

**Note:** This document should be used in conjunction with the NJCC GE Learning Goals and Suggested Individual College-Wide Learning Obj.  (9-6-2011)

General Education Electives

Appropriate reading-level skills are a prerequisite for most college-level courses offered at Rowan College of South Jersey. This prerequisite may be satisfied by passing the College placement exam or successfully completing the specific reading course requirement.

All of the courses listed may be used as general education electives at Rowan College of South Jersey and have been approved for statewide transfer to four-year institutions.

Students are strongly advised to confirm which electives are accepted by the prospective transfer college.

### Written and Oral Communication in English (WOC)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>English Composition I</td>
</tr>
<tr>
<td>ENG 101 E</td>
<td>Enhanced English Composition I</td>
</tr>
<tr>
<td>ENG 102</td>
<td>English Composition II</td>
</tr>
<tr>
<td>SPE 101</td>
<td>Oral Communication</td>
</tr>
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</table>

### Mathematics (QKS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 100</td>
<td>Foundations of Mathematics I</td>
</tr>
<tr>
<td>MAT 101</td>
<td>Concepts of Mathematics</td>
</tr>
<tr>
<td>MAT 102</td>
<td>Survey of Mathematics</td>
</tr>
<tr>
<td>MAT 103</td>
<td>Statistics</td>
</tr>
<tr>
<td>MAT 105</td>
<td>Intermediate Algebra</td>
</tr>
<tr>
<td>MAT 107</td>
<td>Pre-Calculus and Mathematical Analysis</td>
</tr>
<tr>
<td>MAT 108</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MAT 110</td>
<td>Algebra and Trigonometry</td>
</tr>
<tr>
<td>MAT 115</td>
<td>College Geometry</td>
</tr>
<tr>
<td>MAT 120</td>
<td>Structures of Mathematics I</td>
</tr>
<tr>
<td>MAT 121</td>
<td>Structures of Mathematics II</td>
</tr>
<tr>
<td>MAT 122</td>
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<tr>
<td>MAT 151</td>
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<td>MAT 152</td>
<td>Applied Calculus</td>
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<tr>
<td>MAT 200</td>
<td>Foundations of Mathematics II</td>
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<tr>
<td>MAT 202</td>
<td>Linear Algebra</td>
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<tr>
<td>MAT 205</td>
<td>Differential Equations</td>
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<td>MAT 221</td>
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### Science (SKR)

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<th>Course Code</th>
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<tbody>
<tr>
<td>BIO 101</td>
<td>General Biology I</td>
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<td>BIO 102</td>
<td>General Biology II</td>
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<tr>
<td>BIO 103</td>
<td>Environmental Science: Ecosystems and Man</td>
</tr>
<tr>
<td>BIO 104</td>
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</tr>
<tr>
<td>BIO 105</td>
<td>Anatomy and Physiology I</td>
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<tr>
<td>BIO 106</td>
<td>Anatomy and Physiology II</td>
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<tr>
<td>BIO 107</td>
<td>Human Biology</td>
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<tr>
<td>BIO 111</td>
<td>Contemporary Concepts in Biology</td>
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<tr>
<td>BIO 112</td>
<td>Introduction to Marine Biology</td>
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<tr>
<td>BIO 113</td>
<td>Economy Botany: Plants and Society</td>
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<tr>
<td>BIO 116</td>
<td>Animal Science</td>
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<td>BIO 140</td>
<td>Science of Nutrition</td>
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<td>BIO 209</td>
<td>Ecology: Principles and Processes</td>
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<td>BIO 215</td>
<td>Microbiology</td>
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<tr>
<td>BIO 221</td>
<td>Cell and Molecular Biology</td>
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### Technological Competency (TC) or Information Literacy (IL)

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<tr>
<td>CIS 102</td>
<td>Introduction to Computers</td>
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<td>CIS 110</td>
<td>Fundamentals of Programming</td>
</tr>
<tr>
<td>CSC 101</td>
<td>Introduction to Programming</td>
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### Social Science — Introductory (SHB)

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<tbody>
<tr>
<td>ECO 100</td>
<td>Introduction to Economics</td>
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<tr>
<td>ECO 101</td>
<td>Principles of Economics I (Macro)</td>
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<tr>
<td>ECO 102</td>
<td>Principles of Economics II (Micro)</td>
</tr>
<tr>
<td>GEO 102</td>
<td>Cultural Geography</td>
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<tr>
<td>POL 101</td>
<td>American Federal Government</td>
</tr>
<tr>
<td>POL 103</td>
<td>Introduction to Political Science</td>
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<tr>
<td>PSY 101</td>
<td>General Psychology</td>
</tr>
<tr>
<td>PSY 211</td>
<td>Psychology of Human Development</td>
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<td>PSY 212</td>
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<td>PSY 213</td>
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<td>PSY 215</td>
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<tr>
<td>SOC 101</td>
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<td>SOC 102</td>
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<tr>
<td>SOC 130</td>
<td>Society, Ethics and Technology</td>
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## General Education Electives

### Humanities — Broad-Based (HUP)

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<td>ART 121</td>
<td>History of Photography</td>
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<tr>
<td>ART 201</td>
<td>Art History I</td>
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<tr>
<td>ART 202</td>
<td>Art History II</td>
</tr>
<tr>
<td>ASL 101</td>
<td>American Sign Language I</td>
</tr>
<tr>
<td>ASL 102</td>
<td>American Sign Language II</td>
</tr>
<tr>
<td>CHI 101</td>
<td>Elementary Chinese: Mandarin</td>
</tr>
<tr>
<td>ENG 103</td>
<td>Survey of World Literature</td>
</tr>
<tr>
<td>ENG 104</td>
<td>Readings in Literature</td>
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<tr>
<td>ENG 109</td>
<td>Survey of Classical Greek and Roman Literature</td>
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<tr>
<td>ENG 207</td>
<td>Major British Writers from the Middle Ages to the 17th Century</td>
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<tr>
<td>ENG 208</td>
<td>Major British Writers from the 18th Century to Present</td>
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<td>ENG 203</td>
<td>Literature by Women</td>
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<tr>
<td>ENG 213</td>
<td>Non-Western Literature</td>
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<tr>
<td>ENG 222</td>
<td>The Romantic Era in American Literature</td>
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<td>ENG 225</td>
<td>Twentieth Century American Authors</td>
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<td>ENG 230</td>
<td>Major American Writers</td>
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<td>ENG 235</td>
<td>American Film Classics</td>
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<tr>
<td>ENG 236</td>
<td>Contemporary American Film</td>
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<td>ENG 241</td>
<td>Survey of African American Literature</td>
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<tr>
<td>ENG 243</td>
<td>The Freedom Papers: Britain’s Other Literary Treasures</td>
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<td>FRE 101</td>
<td>Intro to French</td>
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<td>GER 101</td>
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<td>GER 102</td>
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<tr>
<td>HIS 101</td>
<td>History of Western Civilization I</td>
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<td>HIS 102</td>
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<td>HIS 103</td>
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<td>HIS 104</td>
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<td>HIS 107</td>
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<td>HIS 205</td>
<td>World History I</td>
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<td>HIS 206</td>
<td>World History II</td>
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<td>ITA 101</td>
<td>Elementary Italian I</td>
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<td>ITA 102</td>
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<td>MUS 101</td>
<td>Music Appreciation I</td>
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<tr>
<td>MUS 203</td>
<td>American Music</td>
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<td>PHI 101</td>
<td>Introduction to Philosophy I</td>
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<tr>
<td>PHI 104</td>
<td>Ethics</td>
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<td>PHI 110</td>
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<td>PHI 150</td>
<td>Critical Thinking</td>
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<td>PHI 204</td>
<td>Contemporary Moral Issues</td>
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<td>PHI 210</td>
<td>Ancient and Medieval Philosophy</td>
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<td>SPA 101</td>
<td>Elementary Spanish I</td>
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<td>SPA 102</td>
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<td>SPA 201</td>
<td>Intermediate Spanish I</td>
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<td>SPA 202</td>
<td>Intermediate Spanish II</td>
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<tr>
<td>THR 205</td>
<td>Introduction to Theatre and Dance</td>
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### Historical Perspective (HSP)

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<th>Course</th>
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<tbody>
<tr>
<td>HIS 101</td>
<td>History of Western Civilization I</td>
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<tr>
<td>HIS 102</td>
<td>History of Western Civilization II</td>
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<tr>
<td>HIS 103</td>
<td>History of the United States I</td>
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<tr>
<td>HIS 104</td>
<td>History of the United States II</td>
</tr>
<tr>
<td>HIS 107</td>
<td>African American History</td>
</tr>
<tr>
<td>HIS 205</td>
<td>World History I</td>
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<td>HIS 206</td>
<td>World History II</td>
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### Global and Cultural Awareness (GCA)

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<tbody>
<tr>
<td>ASL 102</td>
<td>American Sign Language II</td>
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<tr>
<td>ENG 103</td>
<td>Survey of World Literature</td>
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<tr>
<td>ENG 203</td>
<td>Literature by Women</td>
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<tr>
<td>ENG 213</td>
<td>Non-Western Literature</td>
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<td>ENG 215</td>
<td>Immigrant Voices in American Literature</td>
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<td>ENG 240</td>
<td>Introduction to Children’s Literature</td>
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<td>ENG 241</td>
<td>Survey of African American Literature</td>
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<td>GEO 102</td>
<td>Cultural Geography</td>
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<td>HIS 107</td>
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<td>PHI 110</td>
<td>Religions of the World</td>
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<td>SOC 101</td>
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<td>SOC 102</td>
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<td>SPA 202</td>
<td>Intermediate Spanish II</td>
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### Ethical Reasoning and Action (ERA)

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<td>Society, Ethics and Technology</td>
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<td>PHI 101</td>
<td>Introduction to Philosophy I</td>
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<td>PHI 104</td>
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<td>PHI 204</td>
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<td>PSY 101</td>
<td>General Psychology</td>
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<td>PSY 212</td>
<td>Psychology of the Adolescent</td>
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<td>SOC 101</td>
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### Information Literacy (IL)

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<td>English Composition I</td>
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<td>ENG 101 E</td>
<td>Enhanced English Composition I</td>
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<td>ENG 102</td>
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<td>ENG 109</td>
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<td>SOC 101</td>
<td>Principles of Sociology</td>
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<tr>
<td>SPE 101</td>
<td>Oral Communication</td>
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Revised 6-2019
Course Descriptions

Appropriate reading-level skills are a prerequisite for most college-level courses offered at RCSJ. This prerequisite may be satisfied by passing the College placement exam or successfully completing the specific reading course requirement.

Many courses require course fees in addition to tuition. Please refer to page 5 of this catalog or to the website RCSJ.edu for a list of fees and fees relating to online course listings.

Many of the courses listed are offered as online, hybrid or web-enhanced. Check the online schedule or an advisor for more information.

Please Note: All course and lab fees are listed according to categories (A through L; O, Q and W). Dollar amounts for each category, listed on page 5 of this catalog, are accurate through June 30, 2020.

ALH – Allied Health

ALH 102 Medical Terminology
3 lecture hours, 3 credits
Prerequisites: ENG 101, ENG 101E, RDG 099 or ENG 104

This course is designed to assist in mastery of the terms, words, phrases and symbols that describe the human body in its various states of health and disease, as well as the proper anatomical terms for each of the body parts. Terminology regarding diagnosis, surgical procedures and pharmacological preparations will be presented. The depth and scope of this course will meet the needs of students in health technologies and in business studies departments.

ALH 104 Patient Care
1 lecture hour, 1 credit
Prerequisites: ENG 101, ENG 101E, RDG 099 or ENG 104

This course emphasizes those details pertaining to the general care and well-being of the patient. Body mechanics, medical emergencies, ethics, dealing with apprehensive patients, isolation techniques and general care are presented.

ALH 105 Basic Physical Exam
1 lecture hour, 1 lab hour, 1 credit
Prerequisites: BIO 105, EMS 102, NMT 107, NUR 130, RDG 099 or ENG 104

The course will provide the student with the necessary techniques to perform a health history and physical examination on a well person. This course is intended for students of health care who are learning to communicate effectively with patients, to examine patients and to assess their medical problems. The knowledge of how to collect data necessary to complete a health and physical exam will be emphasized. The course will include pertinent developmental content for pediatric, pregnant and aging adult patients.

ALH 107 Cross Sectional Anatomy
2 lecture hours, 2 credits
Prerequisite: Grade of “C” or higher in BIO 105
Pre or Co-requisite: BIO 106

This course is designed to introduce the student to three-dimensional human anatomy as visualized in the coronal, transverse and sagittal planes of NM, CT and MRI images. Normal anatomy of the brain, thorax, abdomen and pelvis will be reviewed.

ALH 108 Cross Sectional Anatomy
3 lecture hours, 3 credits
Prerequisites: ENG 101, ENG 101E, RDG 099 or ENG 104

This course is designed to introduce the student to three-dimensional human anatomy as visualized in the coronal, transverse and sagittal planes of NM, CT and MRI images. Normal anatomy of the brain, thorax, abdomen and pelvis will be reviewed.

ALH 110 Basic Medical Terminology
1 lecture hour, 1 credit
Prerequisites: RDG 099 or ENG 104

This course is designed to introduce a student to the words, phrases and symbols that describe the human body. Terminology regarding medical diagnosis, procedures and medication prescription will be presented. This basic course will assist students planning a career in any health related area. This course will not meet the requirement of majors in which a three (3) credit course is required.

ALH 112 Fundamentals of Human Anatomy
1 lecture hour, 1 credit
Pre or Co-requisites: ALH 102, ALH 104

This course is designed to introduce students to the fundamental basics of the human body and includes simplified structure and function, terminology, basic systems and how they interact to maintain homeostasis. This course is specific for certain Certificate programs, does not meet the Anatomy and Physiology requirement for selective admission programs, and may not be eligible for transfer or variance credits. This course is a prerequisite for ALH 123.

ALH 115 EKG/ECG
2 lecture hours, 1 lab hour, 1 clinical hour, 4 credits
Pre or Co-requisite: Grade of “C” or higher in ALH 104 or proof of passing national certifying exam
Test Fee: $117

This course is designed to instruct students in all aspects of ECG/ EKG and provides classroom instruction in conjunction with lab experience, followed by a 37.5-hour clinical rotation. The clinical component requires completion of CPR and immunization requirements as specified in the Health Packet, received upon enrollment.

ALH 119 Phlebotomy
1 lecture hour, 1 lab hour, 1 clinical hour, 3 credits
Pre or Co-requisites: ALH 102, ALH 104, ALH 112
Program Fee: $1,150, unless covered in NMT or CCMA
Test Fee: $117

This course is designed to instruct students in all aspects of phlebotomy training, including collecting, transporting, handling and processing blood specimens for analysis while adhering to all aspects of quality control and infection control safety policies. Classroom instruction is provided in conjunction with lab experience, followed by a clinical rotation. Upon enrollment to this course, students will be required to meet CPR and health requirements as specified in the Health Packet. Students who do not meet these requirements by the scheduled deadlines will be ineligible for clinical rotation.
ALH 125  Medical Assistant Procedures  
1 lecture hour, 2 clinical hours, 3 credits  
Prerequisites: ALH 102, ALH 104, ALH 112, ALH 115, ALH 119  
Test Fee: $155  
This capstone course for the Certified Clinical Medical Assistant  
Certificate of Achievement will build communication and critical  
thinking skills by teaching the student to integrate the knowledge  
obtained from previously learned skills such as phlebotomy, ECG/EKG,  
obtaining and recording vital signs, obtaining medical histories to  
organize, synthesize and present information as required in a clinical  
environment and perform procedures routine to medical care. Upon  
completion of this course, students are eligible to take the National  
Health Career Association (NHA) certification exam. Currently, Medical  
Assistant Procedures, is a 2-credit course; 1 credit for class and 1 credit for clinical. For spring 2016, faculty  
would like to increase ALH 125 (formerly known as ALH 123)  
from a 2-credit course to 3 credits; 1 credit for class and 2 credits  
for clinical.

ALH 140  Biomedical Ethics  
3 lecture hours, 3 credits  
Prerequisites: ENG 101, ENG 101E  
The range of issues that define bioethics intersect with issues  
of racial and gender equality, as well as policies affecting the world’s  
most vulnerable populations. This multidisciplinary course blends the  
arts of philosophy, theology, history and law to examine biomedical  
issues in personal, social and cultural contexts. Students will be  
introduced to classic and contemporary methods and theories of ethics  
and use those concepts to analyze a variety of current biomedical and  
health-care related issues and apply moral reasoning to formulate an  
ethical response. This class serves as a framework to assist  
professionals in resolving legal and ethical questions in the field of  
medicine and research.

ART – Art  
ART 101  Art Appreciation I  
3 lecture hours, 3 credits  
Prerequisites: RDG 099 or EN 104  
This is an introductory course directed toward a basic  
understanding of past and recent painting, sculpture, architecture,  
photography and digital and other media.

ART 105  Drawing I  
2 lecture hours, 2 studio hours, 3 credits  
This course is an introduction to drawing, using pencil, pastel,  
charcoal and pen. The study is to include observational drawing  
designed to aid in the development of visual perception. (Some  
supplies are to be furnished by the student.)

ART 108  Drawing and Painting I  
2 lecture hours, 2 studio hours, 3 credits  
Course Fee: B  
This course introduces drawing and painting using pencil,  
watercolor and oil or acrylic paint. Studies include still life, landscape,  
life drawing and abstraction. No previous experience  
is necessary. This course will not satisfy art major requirements.  
(Some supplies are to be furnished by the student.)

ART 114  Painting I  
2 lecture hours, 2 studio hours, 3 credits  
Course Fee: B  
This course is an introduction to painting, using watercolor,  
acrylic and oil paints. The study is to include non-representational  
and representational methods of painting. (Some supplies are to  
be furnished by the student.)

ART 116  Color Theory  
2 lecture hours, 2 studio hours, 3 credits  
Prerequisites: RDG 099 or EN 104  
Course Fee: B  
Emphasis in this course is on the implications of color for  
designers and artists. Color awareness is realized through  
experimentation with optical illusions, color harmony and  
psychological associations. Color exercises and creative  
assignments are supplemented by lecture, group discussion,  
critique and individual instruction.

ART 121  History of Photography  
3 lecture hours, 3 credits  
Prerequisites: RDG 099 or EN 104  
This course is an overview of the history of photography from its  
beginnings to the present day. It focuses on the development and  
history of photography as an art form and the impact photography  
has had on both the art world and society. It also emphasizes major  
photographers and their work.

ART 131  Introduction to Digital Photography  
2 lecture hours, 2 studio hours, 3 credits  
Prerequisites: RDG 099 or EN 104  
Online sections of this course offered some semesters.  
This course is an introduction to digital photography. Current  
trends in image making are examined from aesthetic, cultural, social  
and political points of view. Topics include elements of basic camera  
operation, exposure, lighting, composition, visual literacy and  
investigation of the relationships between elements of form, shape,  
line and color. A digital camera is required (DSLR preferred).

ART 141  Introduction to Photoshop  
2 lecture hours, 2 studio hours, 3 credits  
Prerequisites: ART 131  
This course will familiarize students with Adobe Photoshop and  
its relationship to digital photography. Students will gain practical  
experience with digital techniques that will support their photography  
skills as a business, design, artistic and communication tool. The goal  
of this course is to facilitate the integration of Adobe Photoshop with  
digital photography in order to strengthen visual communication.

ART 201  Art History I  
3 lecture hours, 3 credits  
Prerequisites: RDG 099 or EN 104  
Art History I surveys western art from humankind’s first efforts  
to the Renaissance with an emphasis on historical continuity and  
effects of social change.
ART 202  Art History II  
3 lecture hours, 3 credits  
Prerequisites: RDG 099 or ENG 104  
Art History II surveys the developments of western art from the Renaissance to modern time. Baroque, neoclassicism, realism, impressionism and post-impressionism are included topics.

ART 231  Intermediate Digital Photography  
2 lecture hours, 2 studio hours, 3 credits  
Prerequisites: ART 131, RDG 099 or ENG 104  
This course will familiarize students with digital photography beyond the basic camera controls and image adjustments. Students will gain practical experience with digital photography techniques that will support their photography skills as a business, design, artistic and communication tool and develop the digital lab skills to make fine-tuned image adjustments with digital photography editing software. The goal of this course is to provide hands-on practice in digital photography for those already comfortable with basic camera controls who are ready to move to intermediate digital image making in order to strengthen visual communication. A DSLR camera is required.

ASL – American Sign Language  
ASL 101  American Sign Language I  
3 lecture hours, 3 credits  
Prerequisites: RDG 099 or ENG 104  
An introduction to sign language used by the majority of American deaf adults. Emphasis is on the development of basic skills and acquisition of non-verbal communication techniques.

ASL 102  American Sign Language II  
3 lecture hours, 3 credits  
Prerequisite: ASL 101  
A continuation of ASL 101, this course emphasizes continuing development of skills using ASL as well as extensive interaction with the deaf community.

AUT – Automotive Technology  
AUT 101  Automotive Service Fundamentals  
1 lecture hour, 5 lab hours, 2 credits  
Prerequisites: RDG 099 or ENG 104  
Admission to Automotive Technology program  
Course Fee: C  
This course introduces the principles of shop operations, customer relations, service and parts department procedures and shop safety. Emphasis is placed on identification of automotive measuring devices and systems and hand and power tools usage.

AUT 103  Front-End Suspension  
1 lecture hour, 10 lab hours, 3 credits  
Prerequisites: AUT 101 and AUT 107  
Course Fee: C  
This course will cover the proper techniques and procedures for complete front-end services to include manual and power steering systems. Laboratory investigations include wheel alignment, tire and wheel balancing, analysis of tire wear, noise, vibration and harshness.

AUT 105  Brakes and Hydraulic Controls  
1 lecture hour, 10 lab hours, 3 credits  
Prerequisites: AUT 101 and AUT 107  
Course Fee: C  
This course covers the diagnosis and repair of both drum and disc brake systems, power brake boosters, master cylinders, wheel cylinders and related component parts. Topics also covered are anti-lock brake systems, stability control systems and automatic braking systems.

AUT 107  Automotive Electrical Systems  
2 lecture hours, 15 lab hours, 5 credits  
Prerequisite: Admission to Automotive Technology program  
Course Fee: C  
This course is an introduction to basic electrical theory (circuits, Ohm’s Law, etc.) and its application to automotive electrical systems. Included are discussions and laboratory experiences related to batteries, wiring, lighting, alternators, voltage regulators and conventional ignition systems.

AUT 110  Engine Repair  
2 lecture hours, 10 lab hours, 4 credits  
Prerequisites: AUT 105 and AUT 103  
Course Fee: C  
The operation of the internal combustion engine is discussed and examined in detail. Engine rebuilding, mechanical operations and failure analysis are introduced. Emphasis is on the proper use of hand tools, measuring instruments and equipment.

AUT 111  Heating, Ventilation and Air Conditioning  
1 lecture hour, 10 lab hours, 3 credits  
Prerequisites: AUT 103 and AUT 105  
Course Fee: C  
This course focuses on the principles of the operation and service of climate control systems. Topics include components, testing, diagnosis, charging and repair practices.

AUT 123  Automotive Electronics  
2 lecture hours, 10 lab hours, 4 credits  
Prerequisites: AUT 107, AUT 121, AUT 131  
Course Fee: C  
The fundamentals of electronic control systems and their components are introduced. Emphasis is on engine control strategies, microcomputer systems, diagnosis and repair and servicing electronic instruments and options (message center, instrument cluster, fuel computer, air suspension systems and keyless entry control).
AUT 135  Manual Transmissions
1 lecture hour, 10 lab hours, 3 credits
Prerequisites: AUT 103 and AUT 105
Course Fee: C
The principles of manual transmissions, their operation and service are investigated. Laboratory investigations include topics such as types of drivelines, differentials, clutches, U-joints, RWD, FWD and four-wheel drive.

AUT 139  Automatic Transmission Systems
1 lecture hour, 135 lab hours 3 credits
Prerequisites: AUT 110, AUT 111, AUT 135
The theory, operation and diagnosis of both rear-wheel drive transmissions and front-wheel drive transaxles are investigated. Rebuilding and diagnosis of both transmissions and transaxles are emphasized.

BIO – Biology

BIO 101  General Biology I
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: High school biology or equivalent and RDG 099 or ENG 104
Course Fees: C, H
An investigative approach to the science of biology including the molecular structure and function of the cell, extended to the tissue level of organization. Ecological concepts and an introduction to plant biology will be discussed. This course also covers the fundamental concepts of evolutionary theory and surveys many of the ways that organisms have become adapted to their environments. Population dynamics will be discussed as they relate to evolutionary theory. Laboratory exercises parallel lecture and reading assignments.

BIO 102  General Biology II
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: BIO 101
Course Fees: C, H
The origin of new cells and organisms as well as the manner by which genetic material is passed from parent to offspring are investigated in detail through lecture, discussion and lab exercises. Classical and molecular genetics are reviewed and permit the concurrent consideration of the theories relevant in biology today. DNA technology and molecular biology of the gene will be investigated including genetic evolution and the evolution of behavior.

BIO 103  Environmental Science: Ecosystems and Man
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H
The impact of human activities on ecosystems will be explored. Topics will include fundamentals of ecology, how ecosystems function, conservation of plants and animals, overpopulation and world food/hunger problems. Lab experiences focus on natural resource monitoring and ecological investigations.

BIO 104  Environmental Science: Pollution and Solutions
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H
This science course emphasizes the impact of human activities on global resources. Topics will include energy sources, air and water pollution, toxicology, global climate change and waste. Lab experiences focus on investigations that help students understand how to minimize their environmental impacts.

BIO 105  Anatomy and Physiology I
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: High school chemistry (or CHM 107 or CHM 111) and high school biology (or BIO 101, BIO 107 or BIO 111) and RDG 099 or ENG 104
Course Fees: C, H
This course presents a comprehensive study of the structure and function of the gross and microscopic organization of the human body. Emphasis is placed on the integumentary, skeletal, muscular and nervous systems. Laboratory experiences include computer-assisted instruction and experimental labs which reinforce contemporary scientific concepts.

BIO 106  Anatomy and Physiology II
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: Minimum grade of “C” in BIO 105
Course Fees: C, H
Building on the concepts of BIO 105, BIO 106 investigates the endocrine, immune, digestive, excretory, respiratory, circulatory and reproductive systems of the human body. Laboratory experiences include computer-assisted instruction and experimental labs that will reinforce contemporary scientific concepts.

BIO 107  Human Biology
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H
Human biology is a one-semester course designed for students with limited recent experience in biological science. The course explores the structure and function of the human body at both the cellular and organismal levels. Topics of current biomedical and bioethical importance and bioengineering are investigated and discussed.

BIO 111  Contemporary Concepts in Biology
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H
This is a one-semester course that provides a general survey of basic biological theories and modern scientific research. This course includes an introduction to plant and animal diversity, natural selection and molecular biology through interactive laboratory techniques and lectures. This course fulfills the requirements of a general education lab course.
BIO 112 Introduction to Marine Biology
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H

Introduction to Marine Biology is a one-semester course involving the study of the interaction between marine organisms and their physical environment. Topics studied will include marine ecosystems, diversity of marine organisms and the ocean environment, as well as the importance of marine habitats to terrestrial habitats. Laboratory work will include applied science and identification of marine organisms. This course fulfills the requirements of a general education lab science course.

BIO 113 Economic Botany: Plants and Society
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H

Students will explore the scientific research on present and future use of plants and the relationship between plants and people. Topics will include plants known to be useful or those which may have potential uses so far undeveloped. Origins of agriculture, important crop plants, spices, herbal medicines and important plant resources such as wood, bark, latex, tannins, dyes, fibers, resins, oils and waxes will be discussed. Laboratory work will include demonstrations and practical experiments about useful plants. Field experiences will include trips to local farms and gardens that feature economically important plants.

BIO 115 Introduction to Equine Science
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: BIO 116 and RDG 099 or ENG 104 or permission of the instructor
Course Fees: C, H

This course presents theoretical and practical scientific knowledge in the study and care of horses. Instruction focuses on anatomy, physiology, behavior, reproduction and nutrition. Laboratory and field experience will develop skills in handling, foot care, feeding, selection and health management of horses. This course is appropriate for students with or without prior academic or practical experience with horses. Laboratory work will include applied science, dissections and field experiences at the Gloucester County Dream Park.

BIO 116 Animal Science
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H

This course presents the fundamental scientific principles underlying animal function and production including the topics of heredity, nutrition, reproduction, physiology, behavior and animal health, as well as current issues related to the animal sciences. Laboratory work will include applied science and field experiences to local farms and animal care facilities.

BIO 1140 Science of Nutrition
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H

This course explores nutrition as a scientific discipline. Information on the chemical, biological and metabolic nature of major and minor nutrients will be covered. Food choices and habits will be examined and aspects of clinical nutrition will be introduced. Nutrition research will be explained and how information flows from the lab bench to popular press will be explored. Current popular nutritional thinking will be reviewed and critiqued by reviewing books, movies and written articles.

BIO 209 Ecology: Principles and Processes
3 lecture hours, 3 lab hours, 4 credits
Pre or Co-requisite: BIO 102
Course Fees: C, H

This field course, designed for science-emphasis students and those particularly interested in ecology, deals with the interaction of organisms at all levels of the ecosystem. A majority of the laboratory sessions are devoted to the investigation of ecological processes in natural environs.

BIO 212 Wetlands Field Ecology
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: Any lab science and RDG 099 or ENG 104
Course Fees: C, H, W

This is the study of the area between dry terrestrial systems and permanently flooded aquatic systems. This is a field course and includes a description of the hydrology and biochemistry of the wetlands found throughout the world. In addition the animals, plants and microscopic organisms of the wetlands will be studied in detail. The human impact and management of wetlands will be discussed. Both lecture and lab will be held at The Wetlands Institute.

BIO 215 Microbiology
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: BIO 102 or BIO 106
Course Fees: C, H

This course involves the study of the structure and function of microorganisms including viruses, rickettsiae, bacteria, fungi and protozoa. Molecular aspects of nutrition and metabolism are considered. Emphasis is placed on lab techniques associated with the growth and development of microbial systems. Throughout the course there is a reference to microbial disease and its elicitation of the immunological response.

BIO 216 Equine Capstone Practicum
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: BIO 115
Course Fees: C, G

This equine science course integrates didactics, knowledge, skills and experiential learning to allow the student to apply a mastery of fundamental equine science concepts. Hands-on practical experiences at offsite farms will focus on evaluating horses based on confirmation, biomechanics, soundness and suitability for a given discipline, application of nutritional principles, facility and horse management concepts to new situations. Students will develop a portfolio for employability and further educational and career advancement.
BIO 221  Cell and Molecular Biology  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: Minimum grade of “C” in BIO 102 or BIO 106  
Course Fees: C, H  
This course will provide students a background in contemporary biochemical, cell, molecular and biotechnology techniques currently utilized in biological science laboratories. Lectures will focus on the subcellular distribution and function of macromolecules, regulation of gene expression, recombinant DNA technology, gene therapy techniques and the molecular basis of cell signaling and cancer. Emphasis will be placed on developing fundamental laboratory skills utilizing recombinant DNA technology and other current techniques of cell and molecular biology.

BUS – Business  

BUS 101  Introduction to Business  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
Topics include economic reasons for the different forms of business organization and the relations of the various forms of organization to the economic system based on free private enterprise. Such business problems as promotion, business financing, pricing, internal organization, plant location and layout, personnel management, risk bearing, insurance, failure and reorganization are discussed.

BUS 102  Accounting I  
4 lecture hours, 4 credits  
Pre or Co-requisite: MAT 105  
This course provides an understanding of the fundamental principles underlying basic accounting theory and establishes a basis for subsequent accounting courses. Extensive coverage is given to accounting cycles for services and merchandising businesses.

BUS 103  Accounting II  
4 lecture hours, 4 credits  
Prerequisite: BUS 102  
A continuation of BUS 102, this course provides a broader foundation and utilization of accounting principles. Extensive coverage is given to problems pertaining to partnerships and corporations.

BUS 104  Personal and Professional Branding  
1 lecture hour, 1 credit  
This course allows students to prepare for their career of choice. The material provided will expose students to the key elements necessary to develop oneself as a professional. The goal of the course and result is that participating students will be able to articulate their value through a resume and cover letter, conduct meaningful job searches, create a web and social media presence and express themselves clearly in an interview.

BUS 106  Managerial Accounting  
3 lecture hours, 3 credits  
Prerequisite: BUS 103  
This course provides basic principles of managerial accounting as applied to the manufacturing enterprise. Students will learn the management uses of accounting data for planning, control and decision making emphasized in the study of cost accounting, budgeting and internal reporting procedures.

BUS 107  Business Law I  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
This course provides the fundamentals of legal liability, the growth of legal institutions and federal and New Jersey court systems. Reference is made to government regulations of business, business torts and business crimes. The principles of the law of contracts, agency and employment are covered.

BUS 108  Business Law II  
3 lecture hours, 3 credits  
Prerequisite: BUS 107  
This course covers the legal aspects of business regarding commercial paper, bailments and personal property, partnerships, corporations, sales, real property, estates and bankruptcy. There is special emphasis on the Uniform Commercial Code.

BUS 206  Federal Income Taxes  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104, MAT 050  
This course covers federal income tax laws as applied to the preparation of individual and sole proprietorship returns. Topics include withholding adjustments, declaration of estimated tax and all supporting schedules and forms.

BUS 207  Accounting Information Systems  
2 lecture hours, 2 lab hours, 3 credits  
Prerequisite: CIS 120  
Course Fees: A, G, Q  
This course is designed to introduce the accounting student to information systems widely used in the accounting environment. Students will utilize QuickBooks Pro Accounting Software and Sage 50 Complete Accounting Software (formerly Peachtree Accounting) to process transactions, prepare reports and navigate through the accounting cycle. In addition, emphasis on the development of efficient spreadsheets as applied to financial and managerial accounting concepts will be implemented.

BUS 221  Principles of Marketing  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
The marketing function is at the managerial level. Topics discussed include methods, trends and problems involved in research, development and distribution of goods and services from the producer to the consumer. Emphasis is on product strategy, pricing problems, channels of distribution, promotion and the study of consumer and marketing behavior.
BUS 223 Principles of Selling
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

Techniques involved in personal selling are discussed. Prospecting, planning and executing sales presentations, demonstrations, answering objections, closing sales and building goodwill are considered.

BUS 224 Social Media and Internet Marketing
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: BUS 221
Course Fees: A, G

The Social Media and Internet Marketing course provides students with an introduction to the current trends in Social Media and Internet Marketing—tools now commonly used in today's fast-paced business environment. This course will provide hands-on instruction on the use of social media, online marketing, social networking, and mobile marketing. Students will also learn to use search engine optimization, email marketing, and performance analytics. All of these tools will position students to construct marketing plans that will increase a business for visibility and success in the marketplace.

BUS 225 Principles of Advertising
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course is a study of the principles, techniques, and trends in advertising as creative promotional strategy. Discussion includes effective media selection, budget, copy, social responsibility, and the control of advertising.

BUS 231 Principles of Management
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course is an introduction to the planning, organizing, directing, and controlling functions of the management process. Topics include formulating plans and objectives, decision making, organizational structures, authority, staffing, leadership, motivation, and communication.

BUS 237 Human Resource Management
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course covers implications of human resource planning, recruiting, selecting, training, and evaluating. Emphasis is on motivation, leadership activities, and labor relations in the culturally diverse workplace.

BUS 239 Organizational Behavior
3 lecture hours, 3 credits
Prerequisite: BUS 231

This course examines the understanding of human behavior and how organizations can develop a culture built on the principles of cooperation, support, and respect. Topics include impact of individual differences, application of learning theories to improve employee performance, effects of stress on the workplace, conflict management, and how culture can affect organizational change.

BUS 241 Business Ethics
3 lecture hours, 3 credits
Prerequisite: BUS 231

This course examines the understanding of corporate responsibility, the implications of managers' and employees' actions and laws that apply to people and organizations. Topics include the legal and moral responsibilities of managers, managing ethical conduct, ethical decision making, case studies, and ethics as it relates to the organization.

BUS 243 Organizational Development
3 lecture hours, 3 credits
Prerequisite: BUS 231

This course examines how organizations can better adapt to their external environments by applying different methods to influence change. Topics include strategically affecting cultural change within an organization, constructing plans to support a new organizational vision, and analyzing case studies to evaluate effectiveness.

CEP – Cooperative Education Work Experience

Students must apply for Cooperative Education Work Experience prior to registering for the course. Contact the Business Division for more information at extension 2157.

CEP 200
CEP 203
CEP 204
CEP 208 Cooperative Education Work Experience for Automotive Technology Program

Seven to 13 hours per week, supervised employment for 10-week internship
1 credit
Prerequisites: 2.000 GPA, AUT 110, AUT 111 and AUT 135 and acceptance into the program
Course Fee: C
See description following.

CEP 211 Cooperative Education Experience
1 lecture hour, 150 hours employment, 3 credits
Prerequisites: 2.000 GPA, completion of 30 credits and selection for participation in the program

This program is designed for students who aspire to gain career-related experience while completing their degree. The Cooperative Education Work Experience Program consists of an academic experience and a supervised work experience. Students will interview for available positions and if selected for the program, will register for the class and attend a mandatory orientation. The program is also open to those students who are already working in a career-related position, given their participation in the academic component of the course and the willingness of their employer to structure the job as a Cooperative Education work experience.
CET – Civil Engineering Technology

CET 101 Introduction to Materials
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course is a study of the production, composition and properties of important metals and selected alloys and the effects of thermal and mechanical treatments on their structure and serviceability for architectural and engineering products. The properties and suitability of materials such as wood, steel, non-ferrous metals, bituminous materials, mineral aggregates, lime products, concrete, glass, masonry and brick for architectural and engineering purposes are studied. The proper selection, sampling and testing of engineering materials for mechanical properties will be discussed. Particular emphasis will be on materials that, by their nature, contribute to energy efficient construction techniques. These studies will focus on new and traditional products.

CET 108 Introduction to Surveying
2 lecture hours, 3 lab hours, 3 credits
Prerequisite: MAT 110
Course Fees: B, H

This course is a systematic study of the basic principles of plane surveying. Topics include field practice, office procedures and familiarization with various surveying instruments (transit, theodolite, EDM, total station, automatic-level and laser-level). Traversing, triangulation and leveling are also studied.

CET 201 Codes, Contracts and Specifications
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course is a study of business and professional relations in architecture and engineering. Topics include law of contracts, torts, agency, the independent contractor, real property liens, partnerships and corporations. Also included are litigation, arbitration of disputes, labor laws in construction work, bidding procedures and specification writing.

CET 203 Applied Statics
3 lecture hours, 3 credits
Prerequisite: MAT 110

This course includes the study of forces as vectors acting upon bodies and structural elements. Analytical and graphic methods are used to examine resultants and reactions, equilibrium, centroids and centers of gravity and moments of inertia as applied to static structures.

CET 204 Structural Systems
2 lecture hours, 3 lab hours, 3 credits
Prerequisite: CET 203
Course Fees: B, H

This course applies principles of statics to the analysis and design of structural steel reinforced concrete structures. Detailing of simple structures and connections between members of steel structure are studied.

CET 205 Applied Strength of Materials
3 lecture hours, 3 credits
Prerequisite: CET 203

This course studies elasticity and simple stresses of steel, wood and concrete. Topics include shear and moment diagrams, evaluation of riveted and welded connections and the study of axial and eccentrically loaded columns.

CET 206 Evidence and Procedures for Boundary Location
3 lecture hours, 3 credits
Prerequisite: CET 108

This course presents a systematic study of the applications of the laws of boundaries and evidence necessary for boundary determination. The history and development of land boundaries, the surveyor’s role in court, court procedures and legal elements of surveying are studied.

CET 207 Hydraulics
3 lecture hours, 3 credits
Prerequisite: MAT 110 or equivalent

This course is a study of the behaviors and properties of fluids under static and dynamic conditions. Attention is given to buoyancy and stability of floating bodies. The use of Bernoulli’s equation for calculations of flow through pipes, orifices and open channels is covered.

CET 208 Route and Construction Surveying
2 lecture hours, 3 lab hours, 3 credits
Prerequisite: CET 108 or equivalent
Course Fees: B, H

This course is a systematic study of road layout including parabolic curves, circular curves and cross-sections. Field and office practices in various methods of establishing horizontal and vertical control for mapping and planning as applied to different construction projects are discussed. Other topics include determination of earth quantities, slope staking and the use of the stereometer in interpreting aerial photographs. Students receive hands-on experience with various surveying instruments, data collectors and computers to develop skills in the field-to-finish concept for surveying and engineering operations.

CET 209 Cost Estimating
3 lecture hours, 3 credits
Prerequisite: CET 201

This course provides theoretical and practical experience in developing contract documents, detailed estimates and bill of materials of a construction job. Emphasis is on factors contributing to the contract including permits and specifications, local taxation and overhead and profit.

CET 210 Advanced Hydraulics
3 lecture hours, 3 credits
Prerequisite: CET 207

This continuation of CET 207 is a study of viscosity, energy losses and flow in non-circular cross sections. The principles of hydraulics will be applied in open channels, flow measurements and selection of pumps.
CGA – Computer Graphic Art

CGA 103  Design, Color and Type
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: B, G

This design and type course will focus on developing a student’s awareness of design elements including line, shape, value, color, texture and space. The design principles of balance, proximity, alignment, unity, emphasis and rhythm will be covered. Design concepts will be considered as they affect the fine arts, crafts and commercial arts. Lettering explores the basic forms of hand lettering. The course will cover an overview of typography and issues of design with type. Typography covers basic type classifications and usage including the study of selection of proper type for specific purposes.

CGA 115  Foundation of Computer Graphic Arts
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
Course Fee: B

This introductory course provides a basic knowledge of the creating and processing of visual art with the computer. Students gain knowledge of terminology and hands-on experience with computer graphics software and hardware, including the use of a mouse, digital tablet and scanner to create original art designs. Students gain a basic knowledge of theory in computer graphics art and demonstrate a mastery of the use of basic menus, commands and tools of computer graphic arts software.

CGA 118  Introduction to Animation
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CGA 115
Course Fees: B, G

In this course, students will learn to use the five primary media types (text, graphics, sound, animations and video) to create dynamic and visually rich game and interactive products. The focus of the course will be game/interactive media theory, basics of animation and correct preparation of text and graphics in game/interactive authoring tools. Practical, real projects will be created to support student learning.

CGA 120  Intro. to Electronic Publishing and Typography
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CGA 115
Course Fees: B, G

In this course, students will be introduced to the fundamentals of using computer-based publishing tools and terminology. Students will be able to apply typographical formatting, integrate and manipulate graphics with text and print documents to black and white or color printers. Students will master the basic menus and commands.

CGA 130  Video and Audio Editing
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CGA 103
Course Fees: B, G

This course introduces students to the concepts and practice of editing video and audio with professional level software tools. Students will understand organizing media, add audio, create transitions, produce titles and add effects. Students will also learn to edit audio files. Students will understand how to export video and audio for different uses.

CGA 212  Screen Graphics
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CGA 103
Course Fees: B, G

This course provides instruction on methods of creating graphics for use in web page(s), website design, game design and/or mobile screen design. Students will be introduced to principles of interactive design concepts. Concepts include the issues of resolutions, vector vs. raster graphics, correct use of type and color and creation of graphics used in animations for the screen and web.

CGA 215  Electronic Illustration I
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CGA 115
Course Fees: B, G

In this course, students learn to use a vector drawing program to create graphics on the computer. Focus is on creating object-oriented drawings using type effects, Bezier drawing tools, gradients, symbols, colors and correct use of file formats. Students create drawings for print, screen and the Web and demonstrate a mastery of the use of the basic menus, commands and tools of electronic illustration software.

CGA 217  Electronic Image Processing
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: CGA 103 and ART 131
Course Fees: B, G

This course introduces the use of image editing software. Students learn how to scan an image using the correct resolution functions, save files to appropriate formats and retouch and merge photographs. Color correction, organization of images on layers, printing, prepress issues and color management will be discussed. Creation of images for the web and screen display are discussed. Students will demonstrate a mastery of the use of the basic menus, commands and tools of the image manipulation software.

CGA 218  Game and Interactive Authoring
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: CGA 115 and CGA 118
Course Fees: B, G

This course introduces advanced techniques of authoring games and interactive design projects. Students learn advanced tools and begin to use professional design tools to design prototype game and interactive products as well as the application of interface design principles. Students complete projects that demonstrate the use of skills and techniques learned in this class.
CGA 219  Web Design
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: CGA 103 and CGA 212
Course Fees: B, G

This course introduces students to the concepts and practice of creating web pages using a web design software tool. Students will understand the basic concepts of web design including navigation, links, graphics and web site structures.

CGA 220  Advanced Electronic Publishing
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CGA 120
Course Fees: B, G

In this course, students use advanced publishing hardware and software tools to design publications on a computer. All aspects of the tools will be covered, including importing text and graphics, four-color process, spot color, appropriate file management and preparing documents for output to a service bureau. Students demonstrate a mastery of the use of the basic menus, commands and tools of electronic layout software.

CHI – Chinese

CHI 101  Elementary Chinese: Mandarin
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

Introductory basic conversation and pronunciation form the basis of this course, designed to develop communication skills in the Chinese Mandarin dialect. Listening and speaking exercises, oral conversation and dictation are points of departure.

CHM – Chemistry

CHM 107  Introductory Chemistry
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: MAT 050 or MAT 051 or appropriate score on Algebra section of Placement Exam and RDG 099 or ENG 104
Course Fees: C, H

This course introduces basic principles of chemistry. Topics include measurement, problem solving, matter and energy, physical and chemical properties and changes of matter, properties of gases, elementary atomic theory, chemical periodicity, chemical nomenclature, chemical transformations, bonding and Lewis structures, the mole concept and stoichiometry. This course satisfies the general science requirement for non-science majors, including students planning a career in the Allied Health professions. An elementary understanding of high school mathematics with emphasis on algebra is essential.

CHM 111  General Chemistry I
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: High school chemistry or CHM 107 and MAT 105 and RDG 099 or ENG 104
Course Fees: C, H

Elementary atomic and molecular structure of matter are studied with emphasis on chemical bonding, periodic law, stoichiometry, kinetic theory, the gas laws and appropriate descriptive chemistry. The basic laboratory work supports lecture topics.

CHM 112  General Chemistry II
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: Minimum grade of “C” in CHM 111
Course Fees: C, H

This continuation of CHM 111 covers solutions, kinetics, equilibrium, oxidation-reduction, electrochemistry, nuclear chemistry, systematic treatment of metals and nonmetals, thermochemistry and a brief introduction to organic chemistry. The laboratory exercises support lecture topics.

CHM 201  Organic Chemistry I
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: CHM 112
Course Fees: C, H

This course is a study of the reactions, nomenclature, molecular structure and properties of organic compounds. Functional groups are studied with an emphasis on the mechanisms of their reactions. Hydrocarbons, alkyl halides, alcohols and ethers are studied in detail. Laboratory sessions involve practice in modern organic procedures including syntheses of organic compounds and analyses using wet and instrumental methods such as gas chromatography, infrared spectroscopy, $^1$H nuclear magnetic resonance spectroscopy, polarimetry and refractometry.

CHM 202  Organic Chemistry II
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: CHM 201
Course Fees: C, H

This course is a continuation of Organic Chemistry I. It is a further study of the nomenclature, molecular structure, properties and mechanisms of reactions of the major functional groups. Radical reactions, the reactions of conjugated and aromatic compounds and those of carbonyl compounds and amines are studied in detail. The latter part of the semester focuses on carbohydrates, lipids, proteins and nucleic acids. Laboratory sessions involve practice in modern organic procedures including syntheses of organic compounds and analyses using wet and instrumental methods such as infrared spectroscopy, $^1$H and $^{13}$C nuclear magnetic resonance spectroscopy, ultraviolet spectroscopy, polarimetry and refractometry.

CHM 215  Environmental Chemistry
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: CHM 112, BIO 120
Course Fees: C, H

This course involves a study of atmospheric, water, and soil chemistry as well as the associated air, water, and soil pollution. Specific topics may include the greenhouse effect, climate change, fossil fuels, renewable energy technologies, and toxic organic compounds like pesticides and dioxins. The basic laboratory work supports lecture topics.
CIA – Computer Information Applications

CIA 100 Essential Computer Skills
3 lecture hours, 3 credits
Placement is based on basic skills test results
Does not satisfy the CIS 102 requirement in any academic program
Course Fee: A

This course introduces students with no prior experience to basic computer techniques including keyboard and mouse operations, email, the Internet, the Windows Operating System and Microsoft Office. Using a hands-on, step-by-step approach, students will use Word to create, edit and format documents. Excel will be used to create and format worksheets. Access will be used to create a simple database. PowerPoint will be used to create, edit and format presentations including importing pictures and sound.

CIS – Computer Information Systems

CIS 102 Introduction to Computers
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: A, H

This course provides a solid foundation for further study in any of the computer information programs. Topics include facets of obtaining timely and accurate information through the use of contemporary computer systems, hardware concepts for first-time users and hands-on experience with modern software during the computer labs. The Microsoft Office Professional for Windows software package — including Word, Excel, Access and PowerPoint — is used to solve a variety of business problems.

CIS 110 Fundamentals of Programming
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: A, H

This course uses an object oriented, event-driven language to teach fundamental programming concepts. Students with no previous programming experience learn to plan and create interactive Windows applications. Key programming concepts include how to work with various controls and write If...Then...Else, Select/Case, Do...Loop and For...Next statements as well as how to create and manipulate variables, constants, sequential access files and arrays. Graphical User Interface design skills are emphasized. Students will be able to develop a variety of business-related programming applications.

CIS 120 Spreadsheets — Excel
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: A, H

This course is a comprehensive presentation of the Microsoft Excel for Windows spreadsheet application software package. The course covers all of the important features of Excel from basic spreadsheet design and creation through formulas, functions, charts, solver, data tables, multiple worksheets, goal seeking and what-if analysis.

CIS 151 Web Development — HTML/CSS
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: A, H

The course presents the concepts and techniques used in the design, development and testing of web pages created with Hyper Text Markup Language (HTML) and Cascading Style Sheets (CSS). The course also introduces the student to JavaScript programming. Students will work with HTML/CSS design and code generating software.

CIS 154 Advanced Web Development
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CIS 151
Course Fees: A, G

This course presents the process of designing and developing web sites from conception through the publication. The design techniques for mobile, tablet and desktop devices as well as graphic design, audio/video integration and social media interactivity. Students gain valuable hands-on lab experience using web-authoring software.

CIS 207 Management Information Systems
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: CIS 102 and (BUS 103 or CIS 210 or ECO 100 or ECO 101)
Course Fees: A, G

This course introduces students to information systems and demonstrates how these systems are used throughout organizations. In addition to a survey of information systems, students will gain hands-on experience with software tools applied to business data analysis and database management as well as business process execution.

CIS 210 Relational Databases
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: CIS 102
Course Fees: A, H

This course presents the fundamental concepts of database management systems. It covers the methods and procedures used in design and development of relational databases. The Entity-Relationship modeling tool and the normalization process will be utilized during the design phase. Students will implement their designs as they develop actual database management systems using Microsoft Access.

CIS 220 IT Help Desk/Technical Support
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CIS 102
Course Fees: A, G

This course will introduce students to the skills necessary for a computer user support technician. Troubleshooting, user support management and customer service communication techniques will be addressed. Topics will also include the areas of technical support software, project management and networking essentials fundamentals.

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 251</td>
<td>Web Programming</td>
<td>3</td>
<td>CIS 110 and CIS 151</td>
</tr>
<tr>
<td></td>
<td>Course Fees: A, G</td>
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<tr>
<td></td>
<td>This course presents the fundamentals of creating real-world Web applications using JavaScript. The course provides hands-on experience in the detailed coverage of foundation concepts of programming, such as objects, properties, events, expressions, arrays, loops and conditional statements.</td>
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<tr>
<td>CIS 264</td>
<td>Database Applications Development</td>
<td>3</td>
<td>CIS 151 and CIS 210</td>
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<td>Course Fees: A, G</td>
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<td></td>
<td>This course presents the features and concepts of dynamic websites which are driven by a relational database management system. Students will also acquire the skills and techniques needed to build and deploy dynamic web applications that interact with a powerful database.</td>
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<tr>
<td>COM 104</td>
<td>Business Communications</td>
<td>3</td>
<td>RDG 099 or ENG 104 and ENG 101 or ENG 101E</td>
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<td>Course Fees: A, G</td>
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<td>This course highlights the theory and practice of written, oral and interpersonal communication used in the workplace with emphasis on composing clear, concise and effective business correspondence. Students will discuss various types of communication media and the importance of succinct written and oral expression to modern business interactions. Students will have extensive practice writing a wide spectrum of documents, including professional emails and reports. Additionally, the course will discuss effective planning and delivery strategies for professional oral presentations.</td>
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<tr>
<td>COM 105</td>
<td>Technical and Scientific Writing</td>
<td>3</td>
<td>ENG 101 or ENG 101E</td>
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<td>Course Fees: A, G</td>
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<td>This course introduces the principles and mechanics of technical and scientific writing for persons studying or working in technologies or the sciences. Students will learn specific communications skills associated with reporting technical information and will write a series of papers ranging from process description and feasibility reports to a research project, to be reported orally.</td>
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<tr>
<td>COM 106</td>
<td>Essentials of APA Documentation</td>
<td>1</td>
<td>ENG 101 or ENG 101E</td>
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<td>Course Fees: A, G</td>
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<td>This course will cover all aspects of the American Psychological Association documentation format. Students will learn APA documentation of in-text citations and reference pages as well as correct margins, spacing, headers, title pages, footnotes and avoidance of plagiarism. The student will take a series of open book quizzes, create an annotated bibliography and write a research paper.</td>
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<tr>
<td>COM 140</td>
<td>Internet Research and Communications</td>
<td>3</td>
<td>ENG 101 or ENG 101E</td>
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<td>Course Fees: A, G</td>
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<td></td>
<td>This course provides an introduction to Internet services and resources for communication, collaboration and research. COM 140 is currently listed as a communications elective for students pursuing a Communications Option degree, one of RCSJ’s top-ten programs by enrollment.</td>
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<tr>
<td>COM 150</td>
<td>Argumentative and Persuasive Writing</td>
<td>3</td>
<td>ENG 101 or ENG 101E</td>
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<td>Course Fees: A, G</td>
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<td>This course provides students with extensive practice in composing and reading argumentative writing. Students will learn specific theories of persuasion and reasoning and will apply this knowledge to their own compositions. They will read and evaluate the persuasive logic of professional writers as well as their peers.</td>
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<tr>
<td>COM 201</td>
<td>Journalism I</td>
<td>3</td>
<td>ENG 101 or ENG 101E</td>
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<td>Course Fees: A, G</td>
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<td></td>
<td>This course covers the basics of newspaper style, methods of writing leads and news stories and the ethical and legal responsibilities of the press in a free society.</td>
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<tr>
<td>COM 205</td>
<td>Feature Writing</td>
<td>3</td>
<td>COM 201 and ENG 101 or ENG 101E</td>
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<td>Course Fees: A, G</td>
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<td>This course in non-fiction writing teaches the novice writer to write and market effective article manuscripts. Students evaluate selected newspaper and magazine markets, write query letters to editors and research, write and submit articles to self-chosen publications. They conduct readability-level tests on self-written articles and on occasion, share manuscripts with other students.</td>
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<tr>
<td>COM 206</td>
<td>Creative Writing: Nonfiction</td>
<td>3</td>
<td>ENG 101 or ENG 101E</td>
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<td>Course Fees: A, G</td>
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<td>In this course students will study creative nonfiction works and write several short essays/articles, sharing them with the class. Specifically, this course will cover the memoir, personal essay, profile, review, travel writing and feature writing. The course will emphasize the creative nonfiction contract writers have with their readers.</td>
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<tr>
<td>COM 207</td>
<td>Creative Writing: Fiction</td>
<td>3</td>
<td>ENG 101 or ENG 101E</td>
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<td>Course Fees: A, G</td>
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<td>Students study a variety of short fiction for story structure and write several short stories. Students also share portions of their stories in progress, demonstrating for example, narrative point-of-view, dialogue and significant setting. They prepare at least one story for submission to a magazine or literary journal.</td>
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<tr>
<td>COM 208</td>
<td>Creative Writing: Poetry</td>
<td>3</td>
<td>ENG 101 or ENG 101E</td>
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<td>Course Fees: A, G</td>
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</table>
COM 210 Film History and Appreciation
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

Film History and Appreciation explores 50 years of the art and impact of one of the most persuasive, pervasive information delivery systems ever invented. By viewing and discussing a wide array of clips and full episodes of programming (many from the earliest days of the medium), students will assess the significance of the foundation of all entertainment and informational programming. Furthermore, students examine how television has affected American society and how American society has affected television.

COM 212 TV History and Appreciation
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

TV History and Appreciation is a foundation course for Radio, Television and Film students and a prerequisite for future production courses. This course will focus on the decade of the 1950s in which the structure of American commercial television developed. Students will explore the art and impact of one of the most pervasive information delivery systems ever invented. Students will discuss the evolution of some of today’s most popular and influential programming. The cultural, economic and regulatory decisions that shaped the medium will be discussed. Students will also analyze primetime TV’s portrayal of the American family, gender roles, violence, politics and the legal law enforcement and medical professions.

COM 213 Journalism Workshop I
3 lecture hours, 3 credits
Prerequisite: COM 201

This course provides practical experience in journalism. Students serve as staff members of the campus newspaper and gain practical experience in gathering news; writing leads, news stories and headlines; editing; proofreading; and learning other aspects of newspaper publication. Students also attend seminars on journalism and work on special projects to be assigned by the instructor.

COM 216 Foundations of Media Production
2 lecture hours, 2 studio hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This introductory course will familiarize students with filmmaking techniques in preparation for more advanced production courses. Through a series of assignments and hands-on laboratory production exercises, students will employ a range of media production techniques designed to provide practical experience with collaboration, pre-production planning, DSLR camera operation, lenses, composition, lighting and editing during the post-production process to create a final film project.

COM 217 Applied Media Aesthetics
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

Applied Media Aesthetics is a foundation course for Radio, Television and Film students and a prerequisite for future production courses. It is designed to introduce students to universally applicable aesthetic principles and terminology of media production through lectures, media examples and non-production projects. Students will identify, discuss and evaluate media elements and their reactions to them. These elements include lighting, color, screen space, time, motion, sound, editing and storytelling.

COM 219 The Television Industry
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course will focus on the examination of the history, structure, regulation, programming and business models of television. Students will explore the forces that affect and drive the entire content delivery business and become familiar with industry terminology. Students will also explore the role of the FCC, the anatomy of various video delivery systems, (broadcast, cable, satellite, streaming, etc.), the relationship between networks and affiliated stations, generation of revenue and the use of audience measurement.

COM 220 Mass Media
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This course offers an opportunity to investigate, evaluate and appreciate the operation and impact of various forms of mass media and provides insight into the media’s daily influence on consumers, politics, education and cultures.

COS – Counseling/College Studies

COS 103 Student Success
3 lecture hours, 3 credits
Prerequisite: Placement in this course is based on basic skills test results

This course provides an orientation to the RCSJ campus resources and academic skills necessary for the student to achieve his/her educational goals. A strong emphasis is placed on the exploration of campus facilities and services. The course focuses on study skills, library skills, self-assessment, wellness, goal-setting, critical thinking and decorum appropriate for students in a college learning environment.
CRJ – Criminal Justice

CRJ 101 Introduction to Criminal Justice
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This introduction provides an overview of the three major components of the criminal justice system: the police, courts and corrections. It surveys the criminal justice process from initial law enforcement contact through the judicial and correctional phases. In addition to an examination of the roles of the police, courts and corrections, the professional and career opportunities in the criminal justice field will also explored.

CRJ 201 Criminal Law
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This is an introduction to the origin and function of the substantive criminal law. Students review and analyze elements of major offenses of common law and under modern penal codes and the available defenses and review leading judicial interpretations of penal codes.

CRJ 205 The Administration of Justice
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This is a study of legal concepts and procedures from the time of arrest to the time of release or appeal, to conviction of crime. It focuses on trials, indictments, information, bail, grand juries and petit juries.

CRJ 215 Introduction to Criminology
3 lecture hours, 3 credits
Prerequisite: SOC 101 or SOC 102

This course offers a scientific study of crime and criminals; analysis of the nature and extent of crime in the U.S.; causes of crime and criminality; the development of law and our criminal justice system; characteristics and treatment of criminals; patterns of criminal behavior; the impact of crime in our society; an overview of early criminological theories and contemporary sociological, psychological and psychiatric approaches to explaining criminal behavior.

CRJ 225 Community Policing and Crime Analysis
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This is an overview of community policing and its major components (problem-solving, community partnerships and organizational transformation) and its systematic approach to policing as a philosophy or a program. It introduces theories practiced today with the transformation of police services. In addition it covers new developments affecting crime analysis and forecasting.

CRJ 230 Violent Crime in America
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course studies violence and crime in America through historical perspectives, theory, diverse acts of violence, the media and statistical trends. Specific violent crimes, such as homicide, family violence, sexual assault, workplace violence, hostage-taking and serial crimes are surveyed. Acts of official violence, such as capital punishment and police brutality, are examined, along with their impact on society.

CRJ 238 Crime on the Internet
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course examines the Internet as a new crime environment for the twenty-first century. Investigation and prosecution of computer crime as well as security issues are studied.

CRJ 250 Constitutional Issues in Criminal Justice
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course is a review and analysis of important Supreme Court decisions involving contemporary practices of law enforcement agencies and the conduct of criminal court procedures. Emphasis is on the Supreme Court’s impact on such critical issues as search and seizure, confessions, wire-tapping and admissibility of evidence at trial.

CRJ 261 Organized Crime in America
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course examines the attributes, causes and historical antecedents of organized crime and its members. Emphasis is on the make-up of various organizations, including rank structure, initiation ceremonies and criminal activity. Further discussion focuses on law enforcement response to organized crime and its impact on society.

CRJ 262 Domestic and International Terrorism
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course examines the definitions, typologies, historical antecedents and morality of terrorism. Discussions involve domestic and international terrorism, groups involved, justifications and manifestations. Emphasis is on the impact on the international community, law enforcement response and the political ramifications. Selected case studies are examined.

CRJ 270 Internship in Law Enforcement/Criminal Justice
1 lecture hour, 150 internship hours, 3 credits
Prerequisites: 30 college credits/12 in major; 3.00 GPA or higher; Law Enforcement or Criminal Justice major

This internship is for Law Enforcement/Criminal Justice majors and familiarizes prospective practitioners with the philosophies and practices of law enforcement/criminal justice while serving as unpaid interns in host agencies. The course is designed to provide students the opportunity to interact with law enforcement/criminal justice professionals in a work environment. The purpose of the course is to facilitate student experience in the nexus between law enforcement/criminal justice theory and practice. Internships will be completed in one approved setting, including, but not limited to: federal, state, county and local law enforcement, juvenile and adult corrections, prosecutor’s offices, public defenders, emergency response centers, the state judiciary and others.

**See also LEN courses
CSC – Computer Science

CSC 101 Introduction to Programming
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: MAT 050 or MAT 051 or equivalent and RDG 099 or ENG 104; or permission from the Dean of STEM
Course Fees: A, H

This course presents concepts and principles of high-level programming using Visual Basic. It covers how to design, code, debug and document programs. Students learn structured programming using data files while writing programs on a variety of topics in different fields of engineering, mathematics and science.

CSC 111 Intermediate Programming
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: High school programming course, CSC 101, or permission from the Dean of STEM
Course Fees: A, H

This course using Visual Basic focuses on advanced structured programming style, data validation, interactive event-driven routines, single and multi-dimensional array processing, searching, sorting and advanced file handling techniques using random data files and object-oriented programming.

CSC 203 Assembly Language and Computer Organization
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: CSC 111
Course Fees: A, H

This course offers fundamentals of computer organization, registers, buses, processors, I/O and memory system. It also covers data representation, instruction sets, addressing models, subroutines, interrupts and traps of assembly language programming. Students will write and debug assembly language programs at the machine level.

CSC 205 Programming in C++
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: CSC 111 or permission from the Dean of STEM
Course Fees: A, H

This course provides an introduction to C++ language that supports the object-oriented concepts. Students are exposed to fundamental syntax, control structures, functions and transfer of parameters, file processing, arrays, structured data types, sorting, searching, recursion, classes, instances, inheritance and polymorphism.

CSC 210 Object-Oriented Programming in Java
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: CSC 205 or permission from the Dean of STEM
Course Fees: A, H

This course provides an introduction to Java language that supports the object-oriented paradigm. Students are exposed to the concepts, fundamental syntax and semantics, control structures, arrays, algorithms, debugging techniques and object-oriented programming that includes features such as objects, classes, data abstraction, encapsulation, modularity, polymorphism and inheritance.

CSC 220 Data Structures and Algorithm
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: CSC 205
Course Fees: A, H

This course provides the concepts of data structures through the topics in lists, strings, stacks, queues, trees, graphs, networks, file structures, recursive functions, search algorithms, sorting algorithms, hashing and basics of analysis of algorithms.

DFT – Drafting and Design

DFT 103 CADD I (AutoCAD)
1 lecture hour, 5 lab hours, 3 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: B, I

This course introduces students to computer-aided drafting and design (CADD) with AutoCAD software. Students learn to create, store and retrieve drawings on AutoCAD. Industry standards and procedures are used to develop the skills needed by entry-level CADD operator.

DFT 113 CADD II: Advanced AutoCAD
1 lecture hour, 5 lab hours, 3 credits
Prerequisite: DFT 103 or equivalent
Course Fees: B, I

This course is a continuation of the study of AutoCAD. Topics include block, attribute, importing and exporting, x-ref, the user coordinate system and the basics of three-dimensional construction. Extensive hands-on projects using AutoCAD are required.

DFT 203 CADD 3-D Modeling
1 lecture hour, 5 lab hours, 3 credits
Prerequisite: DFT 211
Course Fees: B, I

This course provides advanced computer-aided drafting and design (CADD) techniques. A variety of design and drafting problems are studied using AutoCAD. Students generate drawings in such areas as architectural, mechanical, civil, piping, structural and pictorial drafting. These projects involve: three-dimensional construction, surfaces, solids, rendering and animation.

DFT 211 Architectural and Civil Planning
1 lecture hour, 5 lab hours, 3 credits
Prerequisite: DFT 113
Course Fees: B, I

This course covers the basics of architectural and civil planning and design. The use of contemporary methods and equipment, including CADD, are studied. Working drawings involving both residential and light commercial buildings are produced. Land planning, subdivisions, site topography, floor plans and construction codes are discussed in detail.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hours</th>
<th>Prerequisites/Notes</th>
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</thead>
<tbody>
<tr>
<td>DFT 233</td>
<td>AutoCAD Programming and Customization</td>
<td>3</td>
<td>4</td>
<td>DFT 113 or equivalent</td>
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<td>Course Fees: B, G</td>
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<tr>
<td>DMS 101</td>
<td>Introduction to Medical Imaging</td>
<td>1</td>
<td>1</td>
<td>Admission to program and BIO 105</td>
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<td>Program Fee: $1,150</td>
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<tr>
<td>DMS 105</td>
<td>Abdominal Sonography I</td>
<td>2</td>
<td>2</td>
<td>DMS 113</td>
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<tr>
<td>DMS 113</td>
<td>Cross-Sectional Anatomy I</td>
<td>2</td>
<td>2</td>
<td>BIO 105 and BIO 106</td>
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<tr>
<td>DMS 117</td>
<td>Ultrasound Physics I</td>
<td>2</td>
<td>2</td>
<td>“C” or higher in DMS 101, BIO 105, PHY 103</td>
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<td>Pre or Co-requisites: BIO 106 and ALH 104</td>
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<tr>
<td>DMS 126</td>
<td>Introduction to Clinical Practicum and Scan Lab (10 weeks)</td>
<td>2</td>
<td>3</td>
<td>ALH 104, &quot;C&quot; or higher in BIO 105, BIO 106</td>
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<td>Pre or Co-requisites: ALH 102, DMS 113</td>
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<tr>
<td>DMS 201</td>
<td>Sonographic Interpretation and Techniques I</td>
<td>2</td>
<td>2</td>
<td>DMS 105</td>
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<td>Program Fee: $1,150</td>
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<tr>
<td>DMS 202</td>
<td>Sonographic Interpretation and Techniques II</td>
<td>2</td>
<td>2</td>
<td>DMS 201</td>
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<tr>
<td>DMS 203</td>
<td>Clinical Practicum I</td>
<td>2</td>
<td>3</td>
<td>DMS 105 and DMS 126</td>
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<td>Pre or Co-requisites: DMS 106, DMS 201, DMS 209</td>
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<tr>
<td>DMS 204</td>
<td>Echocardiogram Techniques I</td>
<td>2</td>
<td>2</td>
<td>DMS 105</td>
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<td>Program Fee: $1,150</td>
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</tbody>
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This course advances the understanding of computer-aided drafting and design (CADD) by using AutoCAD software. Extensive hands-on projects using AutoCAD are required. Students learn to design and customize linetype, menu, toolbar, title, button, screen and shape commands and PGP. Students also learn to program in AutoLISP.

This course introduces the fields of medical imaging and how they relate to the general hospital processes and to each other. This course acquaints students with the different types of testing procedures in radiology, ultrasound, CAT scanning and MRI. Emphasis is on ultrasound scans and results as compared to the other imaging methods.

This course begins the study of clinical ultrasound applications pertaining to the abdominal organs and great vessels. Each organ is presented with a review of basic anatomy and physiology, test preparation, instrument set-up, scanning technique, normal findings, normal variants, abnormal findings and pathology and scan review. The liver, gall bladder, biliary tree, pancreas and kidneys are reviewed with regard to clinical ultrasound.

This course expands clinical applications pertaining to the organs and structures of the abdomen. The spleen, retroperitoneum, aorta and other abdominal organs are presented.

This course expands the normal anatomy perspective to three-dimensional concepts. It covers anatomical structures and inter-relationships in transverse, sagittal and coronal planes. The emphasis is on the abdominal organs and great vessels. The comparison of actual ultrasound scans is demonstrated to enhance the student’s perception.
DMS 204  Clinical Practicum II  
30 lab hours, 3 credits  
Prerequisite: DMS 203  
Students continue to develop their skills in diagnostic medical sonography techniques.

DMS 205  Clinical Practicum III  
30 lab hours, 1 credit  
Prerequisite: DMS 204  
Students receive hands-on experience to reinforce instruction in diagnostic medical sonography techniques.

DMS 208  Small Parts Scanning  
1 lecture hour, 1 credit  
Prerequisite: DMS 201  
Anatomy, physiology, pathology and basic scanning techniques as utilized in ultrasound evaluation of various organs and glands are covered in this presentation.

DMS 209  OB/GYN Sonography I  
3 lecture hours, 3 credits  
Prerequisite: DMS 116  
Obstetrics and Gynecological Sonography I introduces the female reproductive and urogenital systems as they pertain to ultrasound examination. Starting with the basic female reproductive system, the course expands into early pregnancy sono graphic evaluation. Normal and abnormal anatomy and physiology, instrumentation set-up, patient preparation, proper scanning technique and normal and abnormal findings are presented.

DMS 210  OB/GYN Sonography II  
3 lecture hours, 3 credits  
Prerequisite: DMS 209  
Course Fee: J  
Advanced late-stage pregnancy sonography is covered in this course. The same didactic format as OB/GYN Sonography I is followed pertaining to the course presentation. Evaluation of the fetus, placenta and involved structures using ultrasound techniques are demonstrated. Critical measurements and assessment of in-utero fetuses are stressed.

DMS 221  Seminars in Ultrasound  
1 lecture hour, 1 credit  
Prerequisites: “C” or higher in DMS 226, DMS 202, DMS 204, DMS 222, DMS 210  
Co-requisites: DMS 208, DMS 205  
Course Fee: J  
On-campus seminar addresses issues that will facilitate the graduates’ entry into the career of sonography. Topics include registry examination preparation in Abdomen, OB/GYN and Ultrasound Physics. Resume writing and test-taking strategies will also be introduced.

DMS 222  Vascular Ultrasound  
3 lecture hours, 3 credits  
Prerequisites: “C” or higher in DMS 106, DMS 201, DMS 203, DMS 209  
Pre or Co-requisites: DMS 202, DMS 204, DMS 210, DMS 226  
This course will provide entry-level knowledge of visceral and peripheral vascular systems relative to duplex and color flow Doppler evaluations. The student will be provided with a working knowledge of hemodynamics and Doppler techniques relative to normal pathogenic states.

DMS 226  Ultrasound Physics II  
1 lecture hour, 1 credit  
Prerequisites: “C” or higher in DMS 106, DMS 201, DMS 203, DMS 209  
Pre or Co-requisites: DMS 202, DMS 204, DMS 210, DMS 222  
Program Fee: $1,150  
This course covers the Doppler effect and principles as well as artifacts, quality assurance and bio effects.

ECO – Economics  

ECO 100  Introduction to Economics  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
This course introduces basic principles of economics and is for students who plan to take no other economics principles courses. It covers capitalism, scarcity, supply and demand gross national product, inflation, unemployment, the Federal Reserve System, monetary and fiscal policies and price determination under varying degrees of competition. Current economic issues are also discussed. ECO 100 does not satisfy requirements for a business major.

ECO 101  Principles of Economics I (Macro)  
3 lecture hours, 3 credits  
Prerequisite: MAT 105 or MAT 151  
This study of the American economic system emphasizes macroeconomics. Topics include the laws of supply and demand the functioning of the price system, the theory of national income determination and the role of monetary and fiscal policies in combating the problems of inflation and recession.

ECO 102  Principles of Economics II (Micro)  
3 lecture hours, 3 credits  
Prerequisite: ECO 101  
This continuation of ECO 101, with emphasis on microeconomics, covers concepts of elasticity, costs of production, the theory of the firm, wage determination and the international economy.

ECO 103  Personal Finance  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
This course introduces the concepts and tools of managing personal finances. It assumes no prior study of economics and is designed to help students understand how to establish a personal financial plan, plan for personal taxes, manage cash, use credit cards, understand consumer lending and insurance and invest in stocks, bonds and funds.
EDU – Education

**EDU 105** Educational Technology
1 lecture hour, 1 credits  
Prerequisite: RDG 099 or ENG 104

This course focuses on the use of educational technology in support of student learning and integration of technology into the N-12 curriculum. Strategies to incorporate technology and the web into the school curriculum will be explored. Each student will develop an online portfolio to demonstrate their growth over time and record evidence of their teaching competencies.

**EDU 130** Human Exceptionality
3 lecture hours, 3 credits  
Prerequisite: PSY 101

This course provides a background for understanding human exceptionalities throughout the life span. Topics include origins and historical perspective, disability characteristics and definitions, diversity, legal issues, educational and life planning, special education, families and communities and services and support.

**EDU 203** Teaching: An Introduction to the Profession
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104

This course provides an introduction to the teaching profession from a sociological and classroom perspective. Topics include educational philosophy and theory, social issues in education, current practices in education, curriculum, effective teaching strategies, classroom organization and management and legal and ethical issues in education.

**EDU 205** History of American Education
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104

This course provides a study of the history of American education from the colonial period to the present. The course will cover preschool through post secondary institutions and will include significant structural developments, major educational figures and contributors, social forces, diversity, conflict and control and other events that have shaped the educational system through various periods of development.

**EDU 215** Principles and Pedagogies in the Inclusive Classroom
3 lecture hour, 3 credits  
Prerequisites: RDG 099 or ENG 104

Restricted to AS EDU majors only. This course introduces educational principles and pedagogies that promote the use of positive, universal classroom management techniques. Students will be empowered to articulate common academic language as it relates to the cycle of teaching and learning; create connections between educational philosophies, beliefs and dispositions; and embrace universal, proactive supports and strategies for creating effective learning communities to promote a positive school climate.

EDU 216 Seminar: Principles and Pedagogies in the Inclusive Classroom
? lecture hour, 1 credit  
Prerequisites: RDG 099 or ENG 104 and EDU 215

Restricted to AS EDU majors only. This course introduces educational principles and pedagogies that promote the use of positive, universal classroom management techniques. Students will be empowered to articulate common academic language as it relates to the cycle of teaching and learning; create connections between educational philosophies, beliefs and dispositions; and embrace universal, proactive supports and strategies for creating effective learning communities to promote a positive school climate.

ENG – English

**ENG 101** English Composition I
3 lecture hours, 3 credits  
Co-requisite: RDG 099 or ENG 104

This course provides students with extensive guided experience in writing essays. The course emphasizes the writing process; critical reading and thinking skills; and the concepts of audience, purpose and form. Attention is devoted to responsible research skills and the basic techniques of MLA documentation.

**ENG 101E** Enhanced English Composition I
4 lecture hours, 4 credits  
Co-requisite: RDG 099 or ENG 104

This course provides students with extensive guided experience in writing essays. The course emphasizes the writing process; critical reading and thinking skills; and the concepts of audience, purpose and form. Attention is devoted to responsible research skills and the basic techniques of MLA documentation.

**ENG 102** English Composition II
3 lecture hours, 3 credits  
Prerequisite: ENG 101 or ENG 101E

This course requires students to read selected prose fiction, poems and plays and to write a series of documented, critical/analytical essays based on those works. Students continue to develop the tools and forms of research covered in ENG 101.

**ENG 103** Survey of World Literature
3 lecture hours, 3 credits  
Prerequisites: ENG 101 or ENG 101E and RDG 099 or ENG 104

This course will introduce students to a number of outstanding authors of various nationalities, ethnicities, races and historical periods, ancient to modern, and to the major works of literature these writers produced. Students will study various literary genres and focus on both the enduring qualities of the selected masterpieces and on their relationship to the times and the cultures in which they were written. Several papers, either research or brief critiques, are required.
ENG 104 Readings in Literature
4 lecture hour, 4 credits
Prerequisite: Accuplacer Placement
Co-requisite: ENG 107 or ENG 101E
Readings in Literature increases students' comprehension and enjoyment of reading through literature, fiction and non-fiction, while emphasizing close reading of passages to develop students' critical thinking, critical reading and critical writing skills. Relying on intensive instructor guidance, students study the major forms of literature, fiction, poetry, drama and essays to identify the connections between literature and the human experience and to learn to identify major themes, inferences, major and minor details.

ENG 107 Principles of English Grammar
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This course focuses on the basic elements of traditional English grammar, including parts of speech, parts of the sentence, dependent and independent clauses, issues of agreement and consistency, punctuation, and introduction to the basics of diagramming. Students will develop a practical understanding of the fundamentals of grammar through lecture, class discussion, the working out of grammatical problems, evaluating various forms of writing and writing sentences and paragraphs.

ENG 109 Survey of Classical Greek and Roman Literature
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
This course introduces students to the literature of ancient Greece and Rome. Students will study the mythological narratives and the various literary forms developed by these cultures.

ENG 203 Literature by Women
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
Literature by Women examines fiction, poetry and drama written by women from medieval to current times, examining their influences and accomplishments in their social and historical contexts. Through class discussion, activities and writing assignments, students will analyze and evaluate important literary themes, such as family, enclosure and escape, creativity and the evolution of women's roles.

ENG 207 Major British Writers from the Middle Ages to the 17th Century
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
This course presents selected readings from the literary work of major British writers from the Anglo-Saxon to the Restoration periods. The course focuses on the traditional historical elements of the works as well as the specific innovations and/or artistic achievements they illustrate.

ENG 208 Major British Writers from the Eighteenth Century to the Present
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
This course presents selected readings from the literary works of major British writers from the 18th to the 20th centuries. The course focuses on the traditional historical elements of the works as well as the specific innovations and/or artistic achievements they illustrate.

ENG 213 Non-Western Literature
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101 E
Non-Western Literature is designed to provide some awareness and sensibility towards the literature from countries other than the United States and those of Europe. Focusing on ancient and modern works from Asian, African and Latin-American countries, the course emphasizes the experiences, challenges and cultures specific to these countries and their commonalities and differences with those of the Western World.

ENG 215 Immigrant Voices in American Literature
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101 E
Immigrant Voices in American Literature focuses on writings by and about immigrants to the United States starting with the first settlers and closing with 21st century newcomers. Through the study of fiction, poetry, drama, and non-fiction, students will examine the American immigrant experience as reflected in these authors' writings and their influence in the larger American literary canon.

ENG 222 The Romantic Era in American Literature
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
This course investigates the main trends and developments in prose, poetry and short stories of the romantic period in American literature against a background of the social and intellectual life, with attention also to the language of the literature.

ENG 225 Twentieth Century American Authors
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
Literary works related to basic problems of the twentieth century (political, social, religious, philosophical or personal) are studied.

ENG 230 Major American Writers
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
This course includes selected readings from the literary works of major American writers. Several critical essays are required.

ENG 235 American Film Classics
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
This survey of the American film industry emphasizes its development as an art form and a social institution.
ENG 236  Contemporary American Film
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
This course presents a survey of the American film industry from the breakdown of the Hollywood studio system in the 1950s to its present-day forms. Students are required to view a select number of films and will write several analytical essays on their themes and techniques.

ENG 237  American Horror Literature: Poe to King
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
This course introduces the American Gothic tradition of horror. The course analyzes a variety of important horror texts, written and filmed, in an attempt to understand why this genre is significant in the development of American culture. The course also addresses the philosophical issues of attraction to this genre and its sociological and spiritual influences.

ENG 238  The Films of Alfred Hitchcock
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
This course introduces the work of one of the twentieth century’s most influential artists, Alfred Hitchcock. By viewing and discussing selected Hitchcock films, students address issues of theme and technique as they define the Hitchcock world.

ENG 240  Introduction to Children’s Literature
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
This survey course deals with the selection, evaluation and utilization of literary materials for children from pre-school through junior high school age (2-16 years of age). Students read and evaluate literary selections for children in this age range.

ENG 241  Survey of African American Literature
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
This course introduces African American literature, exploring the contributions of noted African American writers. The course focuses on the impact these writers had on American culture and society from its early history to the present.

ENG 243  The Freedom Papers: Britain’s Other Literary Treasures
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
This course presents a survey of the written history of Britain. Students will follow the centuries-long struggle of the British people against despotism and oppression and trace their development of the principles of individual freedom and the rule of law through the historical documents that first articulated and established these principles.

ENR – Engineering Science

ENR 102  Freshman Engineering Clinic I
1 lecture hour, 2 lab hours, 2 credits
Prerequisites: RDG 099 or ENG 104, MAT 110 or equivalent
Course Fees: B, G
This course presents an introduction to the practice of engineering through application problems drawn from engineering disciplines chosen to amplify work drawn from supporting courses. It includes topics such as: technical communication formats, analytical tools, computer-based tools, introduction to design, engineering ethics and teamwork.

ENR 103  Freshman Engineering Clinic II
1 lecture hour, 2 lab hours, 2 credits
Prerequisites: MAT 108 and a minimum grade of “C” in ENR 102
Course Fees: B, G
This course, a continuation of Freshman Engineering Clinic I, provides expanded treatment of the practice of engineering through applications drawn from engineering disciplines. Project work includes a variety of technical communication topics, analytic and computer-based tools, including the design process, engineering ethics, safety and teamwork.

ENR 201  Sophomore Engineering Clinic I
3 lab hours, 1 credit
Prerequisite: ENR 103
Course Fees: B, H
This course, a continuation of the Engineering Clinic series, provides expanded treatment of the practice of engineering through applications drawn from various engineering disciplines and industry. Project work includes a variety of technical communication topics, analytic and computer-based tools, including the design process, engineering ethics, safety and teamwork.

ENR 202  Sophomore Engineering Clinic II
3 lab hours, 1 credit
Prerequisite: ENR 201
Course Fees: B, H
This course, a continuation of the Engineering Clinic sequence, provides expanded treatment of the practice of engineering through applications drawn from engineering disciplines and industry. The communications component is designed to help students prepare and present messages in public speaking contexts. In addition to engineering design, the course emphasizes presentation skills as well as critical thinking, listening and organizational skills.

ENR 207  Engineering Materials
2 lecture hours, 3 lab hours, 3 credits
Pre or Co-requisite: CHM 111
Course Fees: B, H
This course for the engineering student develops familiarity with the nature and physical properties of industrial materials. Emphasis is on the mechanical behavior of materials under various load conditions. Laboratory experiences complement class work.
**ENR 211 Engineering Statics**  
3 lecture hours, 3 credits  
Pre or Co-requisite: PHY 201

This course for students of engineering includes analysis of static particles and rigid bodies under applied forces. This study of force systems in equilibrium includes resultant of forces in two- or three-dimensional space, free-body diagrams, centroids, analysis of structure, friction, moment of inertia and work.

**ENR 212 Mechanics of Materials**  
3 lecture hours, 3 credits  
Pre requisite: ENR 211

This course continues ENR 211 and includes stress, strain, axial loading, torsion, bending and deflection of beams. Analysis of both determinate and indeterminate structural systems is presented.

**ENR 213 Dynamics**  
3 lecture hours, 3 credits  
Pre requisite: ENR 211

Dynamics includes analysis of moving particles and rigid bodies under applied forces. The principles of kinematics and kinetics are presented. The topics include work, energy, impulse, linear momentum, angular momentum and mechanical vibration.

**FRE – French**

**FRE 101 Elementary French I**  
3 lecture hours, 3 credits  
Pre requisite: RDG 099 or ENG 104

Introductory grammar and pronunciation form the basis of this course, designed to develop communicative skills in French. Oral and written exercises, reading of easy prose and dictation are points of departure.

**FRE 102 Cultural Geography**  
3 lecture hours, 3 credits  
Pre requisite: RDG 099 or ENG 104

Cultural geography is a blend of several social sciences, including geography, anthropology, political science, history, economics and earth science. Its purpose is to analyze and synthesize concepts affecting varied cultural environments throughout the world. Visual imagery through maps, field trips, Internet exploration and video presentations are stressed as methods to identify and analyze cultural patterns.

**GER – German**

**GER 101 Elementary German I**  
3 lecture hours, 3 credits  
Pre requisite: RDG 099 or ENG 104

Introductory grammar and pronunciation form the basis of this course, designed to develop communicative skills in German. Oral and written exercises, reading of easy prose and dictation are points of departure.

**HIS – History**

**HIS 101 History of Western Civilization I**  
3 lecture hours, 3 credits  
Pre requisite: RDG 099 or ENG 104

This is a survey of the political, social, economic, cultural and religious forces and movements essential to understanding the development of our civilization from ancient times to 1648.

**HIS 102 History of Western Civilization II**  
3 lecture hours, 3 credits  
Pre requisite: RDG 099 or ENG 104

This is a survey of the political, social, economic, cultural and religious forces and movements essential to understanding the development of our civilization from 1649 to the present.

**HIS 103 History of the United States I**  
3 lecture hours, 3 credits  
Pre requisite: RDG 099 or ENG 104

This is a study of American history from the Colonial Era through the Civil War. Included is a broad survey of the development of American democracy with emphasis on the growth of institutions and ideas as they were brought from Europe and modified and developed here. Special attention is given to the development of the national Constitution.

**HIS 104 History of the United States II**  
3 lecture hours, 3 credits  
Pre requisite: RDG 099 or ENG 104

This course continues the study of American political, social and intellectual development from 1865 to the present. Topics include Reconstruction, industrial and transportation revolution, labor movement, the crisis in agriculture, expansion and the new Manifest Destiny and problems of the twentieth century.
HIS 107  African-American History  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
Pre or Co-requisite: ENG 101  
This course is a survey of the major social, economic and cultural developments within the African-American community from its African origins to the present. The course emphasizes the formation of African-American identity and culture, demographic and migration patterns, contributions of African-Americans to the making of America and an in-depth analysis of legal and political status as it pertains to the history of a people.

HIS 204  The First 100 Years of the American Automobile  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
This course provides a basic understanding of the history and significance of the automobile industry and how it has been intertwined with American history, culture and everyday life. The course will cover the early days of the automobile with discussions about Henry Ford, Billy Durrant, the formation of General Motors, key designers and more. The course will highlight challenges facing the automobile industry during each decade of the twentieth century.

HIS 205  World History I  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
This course is a study of processes of change and patterns of interaction between the major civilizations of the world from the rise of civilization to European expansion of the 1500s. This is a survey of the political, social, economic, cultural and religious forces and movements essential to an understanding of the development of world civilizations. Fundamental to this course is an emphasis on the diversity of world cultures, the mutuality of cultural exchange and a global perspective on historical development.

HIS 206  World History II  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
This course is a study of processes of change and patterns from the 1500s to the present. This is a survey of the political, social, economic, cultural and religious forces and movements essential to an understanding of the development of modern nations, identities, economies and alliances. Fundamental to this course is an emphasis on the diversity of world cultures, the mutuality of cultural exchange and a global perspective on historical development.

HPE 104  Health and Fitness for the Individual  
1 lecture hour, 2 lab hours, 2 credits  
Course Fee: G  
Students study how health and fitness affect the individual physiologically and psychologically. A variety of methods and techniques used to enhance health and physical fitness are presented. Actual physical activity is part of the course.

HPE 105  Healthcare Provider Emergency Response with BLS Certification  
1 lecture hour, 1 credit  
Course Fee: C  
This course is designed to provide training in the duties of the Healthcare Provider as first responder in emergencies. Course includes topics that HCP needs to consider when beginning first aid as well as the responsibilities when initiating basic life support. Students will have an opportunity to gain knowledge and skills on victim assessment, controlling bleeding, and preventing shock. Students will learn how to recognize and respond to life-threatening emergencies such as cardiac arrest, respiratory arrest and foreign-body airway obstruction (choking). At course completion, students will be required to demonstrate the correct provision of high-quality CPR and the correct use of an automated external defibrillator (AED). Students who successfully complete the written and skills components of the CPR module will be awarded the American Heart Association's Basic Life Support for Healthcare Providers card.

HPE 106  Health & Wellness Promotion in Physical Therapy  
1 lecture hour, 1 credit  
Prerequisite: Grade C or better in ENG 101 or ENG 101E  
Co-requisite: PTA 101  
This course will identify methods for physical therapy professionals to be effective change agents in the promotion of public health, prevention, and wellness initiatives. Effective communication strategies between health practitioners and patients will also be explored. Students will be expected to participate in a nutritional self-assessment identify opportunities for participation in service learning activities, and develop a group wellness project (This course is only available to students enrolled in the PTA program.)

HPE 111  Cardiovascular Fitness Activities  
2 activity hours, 1 credit  
Course Fee: G  
This participatory course introduces types of aerobic-based activities available. The multiple health benefits associated with practicing a variety of cardiovascular fitness activities will be emphasized.

HPE 112  Introduction to Swimming  
2 activity hours, 1 credit  
Course Fee: G  
Students in this course will learn and perform basic swimming skills at the introductory level. Class participants should be either novice or intermediate swimmers. Students may be required to take this class to prepare them for HPE 231 Specialized Swimming.
HPE 113 Physical Fitness Activities
2 activity hours, 1 credit
Course Fee: G
This course is designed to improve cardiovascular fitness and muscular strength and endurance through participation in various activities (including aerobic exercise, weight training and circuit training) and to provide basic, related health and wellness information.

HPE 117 Weight Training Activities
1 lecture hour, 2 activity hours, 2 credits
Course Fee: G
This course is designed to improve muscular strength and endurance through participation in various resistance activities (including free weights, cybex and universal circuit training) and to provide basic, related health and wellness information.

HPE 136 Nutrition
3 lecture hours, 3 credits
Co-requisite: RDG 099 or ENG 104
This course provides students with basic nutrition information that can be incorporated into daily life. Topics include explorations of the controversies and myths concerning food, diet and weight control.

HPE 150 Golf
2 activity hours, 1 credit
Course Fee: G
This course helps students develop efficient body movements through practice of fundamental golf skills. The strategies of play, history, rules and etiquette of golf are also covered.

HPE 151 Tennis
2 activity hours, 1 credit
Course Fee: G
This course helps students develop efficient body movements through practice of basic tennis skills as well as advanced strokes. Scoring, rules and singles and doubles strategies are also covered.

HPE 152 Bowling
2 activity hours, 1 credit
Course Fee: G
This course helps students develop efficient body movements through practice of fundamental bowling skills. The scoring, strategies of play, history, rules and etiquette of bowling are also covered.

HPE 154 Volleyball
2 activity hours, 1 credit
Course Fee: G
This course helps students develop efficient body movements through practice of fundamental volleyball skills. The scoring, strategies of play, history, rules and etiquette of volleyball are also covered.

HPE 192 Contemporary Health I
3 lecture hours, 3 credits
Pre or Co-requisite: RDG 099 or ENG 104
This course, the first in a series of two, provides students with a background in current health issues. Psychological health, human development, wellness, drug use and abuse, and mental and emotional health addictions are some of the topics discussed.

HPE 193 Contemporary Health II
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This course, the second in a series of two, is a general knowledge survey course which provides students with a general scope and understanding of current health issues that occur in the human lifecycle. Topics addressed include sexuality and family life, personal health, chronic and infectious diseases, environmental health and consumerism.

HPE 201 Health Science
3 lecture hours, 3 credits
Co-requisite: RDG 099 or ENG 104
Principles, problems and practices related to the health of the individual and community are discussed. Topics include the role of health agencies, mental health, alcohol and drugs, sexually transmitted diseases, nutrition and physical fitness.

HPE 209 Individual and Dual Sports I
1 lecture hour, 2 activity hours, 2 credits
Course Fee: G
This course builds an understanding of how to teach tennis and badminton. Basic skills, scoring, strategies of play, history, rules and etiquette are covered. Proper teaching and coaching techniques are emphasized and practiced.

HPE 211 Consumer Health Decisions
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This course examines the rights and responsibilities of a consumer faced with increasing amounts of information related to his or her overall well-being. It examines the major problem of health fraud and the components of scientific research. The role of advertising is explored, as well as sound principles for purchasing nutrition, fitness and other health-related products and services. Students learn important concepts related to health insurance and hospitals, traditional and alternative medical care and how to better manage the decisions they make.

HPE 221 Team Sports I
1 lecture hour, 2 activity hours, 2 credits
Course Fee: G
This course builds an understanding of how to teach basketball, volleyball, softball and baseball. Basic skills, scoring, strategies of play, history, rules and etiquette are covered. Proper teaching and coaching techniques are emphasized and practiced.
HPE 222  Team Sports II  
1 lecture hour, 2 activity hours, 2 credits  
Course Fee: G  
This course builds an understanding of how to teach soccer, field hockey, lacrosse and wrestling. Basic skills, scoring, strategies of play, history, rules and etiquette are covered. Proper teaching and coaching techniques are emphasized and practiced.

HPE 231  Specialized Swimming  
1 lecture hour, 2 activity hours, 2 credits  
Prerequisites: HPE 112 or students must demonstrate their ability to tread water for 5 minutes and successfully swim 10 laps using various swimming strokes.  
Course Fee: G  
This course teaches skills necessary to be a swimming instructor. A variety of swimming strokes are practiced. Teaching techniques, basic water safety skills, diving and water sports are also covered.

HPE 233:  Safety, First Aid, CPR and Injury Prevention  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
Course Fee: C  
This course introduces principles of athletic training and covers how to provide First Aid and CPR in most situations where emergency care is needed. Emphasis is on the responsibilities of the athletic trainer, conditioning and training of the athlete, prevention and care of athletic injuries and taping. Opportunities are provided for students to gain practical experience. An American Heart Association Basic Life Support for the Health Care Providers Certification is earned by all students who successfully complete this course.

HPE 240  Introduction to Health, Physical Education and Recreation  
3 lecture hours, 3 credits  
Co-requisite: RDG 099 or ENG 104  
This is an overview of the health, physical education and recreation field and assists students in choosing a career path.

HPE 245  Motor Development and Motor Learning  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
This is an introductory course that includes the study of locomotor and non-locomotor movement, manipulative skills and developmental and environmental factors that affect learning in these motor skill areas. The course will focus on motor behavior changes. Students will also be introduced to motor learning theories and concepts, assessment and development of motor skills in various settings.

HPE 252  Foundations of Fitness  
3 activity hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
This course is designed to provide students with insight into applying fitness training principles to various populations, and into the development of health and skill related fitness in individuals. Students will develop skill in designing fitness programs for individuals with differing needs and abilities. Throughout this course the concept of providing challenging yet success assured learning experiences for fitness development will be emphasized.

HPE 260  Exercise Physiology  
3 lecture hours, 3 credits  
Prerequisites: BIO 105, BIO 106, HPE 104 and RDG 099 or ENG 104  
This course examines the physiological effects of exercise on the human body. Major topics include energy use, the muscular, cardiovascular, respiratory and nervous systems, metabolism, body composition, temperature regulation and training guidelines. Practical application of topics is emphasized.

ITA – Italian

ITA 101  Elementary Italian I  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
This course introduces grammar and pronunciation of Italian and includes practice in speaking, comprehension, reading and writing.

ITA 102  Elementary Italian II  
3 lecture hours, 3 credits  
Prerequisite: ITA 101  
This course involves more advanced grammar concepts in conjunction with practice in speaking, comprehension, reading and writing Italian.
LEN – Law Enforcement/Criminal Justice *

LEN 102 Police Organization and Administration
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This is a study of contemporary police principles and practices with an emphasis on accepted administrative methods for achieving law enforcement objectives. Basic organization and administrative decisions are approached from the point of view of police chiefs, commanders and administrators. Decisions concerning personnel, community relations, operations, administration, auxiliary and technical services, budgeting, records, research and inspection are studied.

LEN 108 Police and Personnel Management
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This course introduces students and in-service law enforcement personnel to methods and techniques involved in becoming an effective police supervisor. Topics include the police supervisory role in problems that occur in the field, as well as administrative, legal and personnel problems.

LEN 210 Contemporary Issues in Law Enforcement
3 lecture hours, 3 credits
Prerequisites: CRJ 201 and CRJ 215
This is an examination of controversial subjects related to law enforcement, the philosophy of law enforcement, the role and function of police in a democratic society, the impact of American social problems on law enforcement, the complexity of the task and the importance of community relations.

LEN 221 Principles of Criminal Investigation
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
Topics include investigation, methodology in crime, modus operandi, sources of information, interrogation and preliminary follow-up investigations. The abilities, techniques and methods employed in a criminal investigation from the time the report is received to the ultimate conviction of the perpetrator are studied. The potentials of scientific research, the use of communications and records in criminal investigation and the application of logic and scientific method to the investigation of criminal evidence are included.

LEN 227 Introduction to Corrections
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This course is an overview of the correctional system in America and examines probation, parole, jails, prisons and community-based programs. Included are the processes, organization and trends in these areas and a philosophical and theoretical consideration of the correct process.

LEN 234 Introduction to Security
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This course introduces the systems, organization, design and implementation of security systems, including government, business, industry and proprietary.

*See also CRJ courses

MAT – Mathematics

MAT 010 Introductory College Mathematics
3 lecture hours, 3 credits
Pre or Co-requisite: RDG 099 or ENG 104
Does not satisfy program requirements in mathematics
This is a developmental course for students whose placement test scores place them at this level or those who feel they need to review the fundamentals of mathematics. This course provides a more sophisticated level of understanding of basic concepts and includes basic arithmetic and problem solving.

MAT 011 Introductory College Mathematics Accelerated
1 lecture hour, 1 credit
Prerequisite: Placement Score
Pre or Co-requisite: RDG 099 or ENG 104
Does not satisfy program requirements in mathematics
This course will develop math skills for students whose placement test scores place them at this level, or those who feel they need to review the fundamentals of mathematics. This course provides a sophisticated level of understanding of basic concepts and includes basic arithmetic and problem solving.

MAT 050 Elementary Algebra
3 lecture hours, 3 credits
Prerequisites: MAT 010, MAT 011 or equivalent
This is a developmental course for students whose placement test scores place them at this level or those with little or no previous experience in algebra. Emphasis is on operations with signed numbers, evaluation and simplification of algebraic expressions, solutions to linear equations with applications, exponents, polynomials, factoring and graphing.

MAT 051 Elementary Algebra Review
1 lecture hour, 1 credit
Prerequisite: Placement Score or MAT 050 with a grade of “P” or higher
Pre or Co-requisite: RDG 099 or ENG 104
Does not satisfy program requirements in mathematics
This is a developmental course for students whose placement test scores place them at this level or those with little or no previous experience in algebra. Emphasis is on operations with signed numbers, evaluation and simplification of algebraic expressions, solutions to linear equations with applications, exponents, polynomials, factoring and graphing.

MAT 100 Foundations of Mathematics I
3 lecture hours, 3 credits
Prerequisites: Placement score of 50–75, appropriate major and RDG 099 or ENG 104
In this course, students apply the fundamentals of arithmetic and basic algebra to solve practical problems. Topics include real number properties and applications, an introduction to algebra, counting methods and probability.

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MAT 101 Concepts of Mathematics
3 lecture hours, 3 credits
Prerequisites: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104

This course in finite mathematics involves an investigation of the logical methods of problem solving. Topics include set theory, symbolic logic, counting methods, probability and statistics.

MAT 102 Survey of Mathematics
3 lecture hours, 3 credits
Prerequisites: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104

This course provides a review of the fundamental mathematical concepts that support common problem solving. Topics include algebra, geometry, coordinate geometry, mathematical systems, matrices and an overview of common financial mathematics.

MAT 103 Statistics
3 lecture hours, 3 credits
Prerequisites: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104

This is an introduction to the fundamental concepts and methods of statistics. Topics include elementary probability, measures of central tendency and dispersion, binomial and normal distributions, hypothesis testing, linear regression and correlation.

MAT 105 Intermediate Algebra
4 lecture hours, 4 credits
Prerequisites: RDG 099 or ENG 104 and grade of "C" or higher in MAT 050 or MAT 051 or equivalent

This is a systematic study of topics in intermediate algebra, commencing with the development of the real number system and its properties. Topics include special factoring methods, solutions to linear and quadratic equations, rational expressions, absolute values, inequalities, graphing, radicals, exponents and functions.

MAT 107 Pre-Calculus and Mathematical Analysis
4 lecture hours, 4 credits
Prerequisite: Three years of high school Mathematics, including a semester of Trigonometry or MAT 110

This course prepares students for the study of calculus. Topics include the algebra of functions, sequences, mathematical induction, equations of a line, slopes, angles of intersection, conic sections, logarithmic and exponential functions, a review of trigonometry, polar coordinates and an introduction to limits.

MAT 108 Calculus I
4 lecture hours, 4 credits
Prerequisites: High school Trigonometry and Analytical Geometry or MAT 107

Topics include limits, continuity, differentiation techniques and applications of algebraic, trigonometric, and transcendental functions, as well as definite and indefinite integration techniques and applications of algebraic, trigonometric, and transcendental functions.

MAT 109 Technical Mathematics
3 lecture hours, 3 credits
Prerequisite: Admission to Automotive Technology program

This is a systematic study of ratio and proportion, practical algebra, metric measures, plane and solid geometry as they are applied to measurements and definitions, horsepower, speed ratios and gears.

MAT 110 Algebra and Trigonometry
4 lecture hours, 4 credits
Prerequisite: MAT 105

This is a systematic study of topics of algebra and trigonometry with emphasis on trigonometry.

MAT 115 College Geometry
3 lecture hours, 3 credits
Prerequisites: MAT 050, MAT 051 or equivalent and RDG 099 or ENG 104

This course presents the fundamentals of plane, solid and non-Euclidean geometries. Topics include the history of mathematical thought and reasoning, measurement, congruence, similarity, parallelism, perpendicularity and methods of proof.

MAT 120 Structures of Mathematics
3 lecture hours, 3 credits
Prerequisites: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104

This course concerns the development of number systems and algebraic structures, including the natural numbers, the integers, rational numbers, real and complex numbers. Students will be required to reason mathematically, solve problems and communicate mathematics effectively at different levels of formality, using a variety of representations of mathematical concepts and procedures.

MAT 121 Structures of Mathematics II
3 lecture hours, 3 credits
Prerequisite: MAT 120

This course is designed primarily for elementary education majors. The course will require students to investigate problems in order to deepen their conceptual and procedural understanding in the areas of algebra, data analysis, probability, geometry, measurement, and systematic listing and counting.

MAT 122 Calculus II
4 lecture hours, 4 credits
Prerequisite: MAT 108

This is a study of integral calculus and its applications. Topics include areas bounded by curves, volumes and surface areas of solids of revolution, arc length, integration by special methods, improper integrals, transcendental functions and infinite sequences and series. The class also covers the study of parametric equations and polar coordinates.
MAT 151  Mathematics for Management
4 lecture hours, 4 credits
Prerequisite: MAT 105 or equivalent

This is a study of those applications of algebra necessary for business analysis. Topics include functions, equations and inequalities, matrix operations, linear programming, sequences and mathematics of finance as they apply to the management sciences.

MAT 152  Applied Calculus
4 lecture hours, 4 credits
Prerequisite: MAT 107 or MAT 151

This is a study of differential and integral calculus with emphasis on applications. Topics include differentiation, rates of change, optimization, logarithmic and exponential functions, partial derivatives and integration.

MAT 200  Foundations of Mathematics II
3 lecture hours, 3 credits
Prerequisite: MAT 100 or MAT 105

The fundamentals of arithmetic and algebra are applied to solve problems involving consumer credit, compound interest, annuities, discount, commission, markup, inventory, depreciation, basic statistics and graphing.

MAT 201  Discrete Mathematics
3 lecture hours, 3 credits
Prerequisite: MAT 107

This course is directed toward computer science and mathematics majors. Topics include sets, relations, functions, logic, induction, combinatorics, Boolean algebra, recurrence relations digraphs and trees. Emphasis is on the solution of problems.

MAT 202  Linear Algebra
3 lecture hours, 3 credits
Prerequisite: MAT 108 or MAT 122

This course is an in-depth study of mathematical proofs and linear algebra. Topics will include specific skills and abstract approaches for mathematical proofs and basic computational techniques, practical applications and theoretical results of linear algebra.

MAT 205  Differential Equations
4 lecture hours, 4 credits
Pre or Co-requisite: MAT 221

This is a study of ordinary differential equations with applications for higher mathematics and engineering. Topics include differential equations of first or higher order, linear differential equations with constant and variable coefficients, solutions by analytical and numerical methods, series solutions and Laplace and inverse transforms.

MAT 221  Calculus III
4 lecture hours, 4 credits
Prerequisite: MAT 122

This course expands the concepts from MAT 108 and MAT 122 to include vector treatment of three-dimensional geometry, partial derivatives of functions of two or more independent variables, multiple integrals, indeterminate forms, parametric equations and polar coordinates.

MAT 229  Reasoning and Proof
4 lecture hours, 4 credits
Prerequisite: MAT 113
Pre or Co-requisite: MAT 201

This course is about writing mathematical proofs precisely and proving statements by various methods. This will involve writing precise statements, writing precise definitions of various concepts and applying mathematical reasoning to prove a statement. All of this will lead us to writing proofs precisely, learning interesting techniques and building intuition through the transition into advanced mathematics.

MUS – Music

MUS 101  Music Appreciation I
3 lecture hours, 3 credits
Pre or Co-requisite: ENG 101 or ENG 101E

MUS 101 appraises the art of music through active listening, introducing basic musical concepts and developing listening perception. Recorded and visual materials are utilized in studying the elements, forms and styles of music with the aim of stimulating a discriminating understanding and enjoyment of various musical styles. The course is organized topically, encouraging students to discover commonalities among widely differing types of music.

MUS 103  Music In Childhood Education
3 lecture hours, 3 credits
Prerequisite: RDG 099, ENG 104

This course focuses on music as an integral component of teaching and learning in the world of early childhood and in the elementary school curriculum. Students interested in working with children at the preschool or primary level will explore a variety of musical styles to develop their own critical aesthetic and artistic vocabulary. Students learn how to help children utilize music in the exploration and expression of thoughts and feelings. The early childhood portion of the course builds an understanding of musical development, with emphasis placed on music and movement. Elementary methods include design, construction, implementation, and assessment of classroom music activities that integrate the arts with elementary classroom curricula.

MUS 106  Choral Workshop I
2 studio hours, 2 lecture hours, 3 credits

Choral Workshop I emphasizes vocal training, basics of musical notation and terminology, and rudiments of sight reading through the study of a variety of choral works. No prior musical training is necessary. Participation in several public performances may be required. Students may enroll for subsequent Choral Workshop classes.

MUS 107  Choral Workshop II
2 studio hours, 2 lecture hours, 3 credits

Choral Workshop II is open to students who have successfully completed Choral Workshop I. This course develops vocal technique, broadens knowledge of musical notation and terminology, and advances sight reading through the study of a variety of choral works. Participation in several public performances may be required. Students may enroll in subsequent Choral Workshop classes.

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MUS 108  Choral Workshop III
2 studio hours, 2 lecture hours, 3 credits

Choral Workshop III is open to students who have successfully completed Choral Workshop I and Choral Workshop II. This course allows students to apply their vocal and musical experience in a variety of chamber groupings and formats, demonstrating advanced musicianship and developing flexible ensemble skills in the study of a variety of choral works and styles. Participation in several public performances may be required. Students may enroll for the Choral Workshop IV upon completion of this course.

MUS 109  Choral Workshop IV
2 studio hours, 2 lecture hours, 3 credits

Choral Workshop IV is open to students who have successfully completed Choral Workshops I, II and III. This course allows vocally advanced students to apply their experience in a variety of chamber groupings and formats, polishing a highly developed vocal and choral technique and finessing musicianship skills in the study of a variety of choral works and styles. Participation in several public performances may be required.

MUS 112  Basic Musicianship
3 lecture hours, 3 credits

This course is designed and structured for students with very little or no formal musical training. Its goal is to provide students with a basic working knowledge of the fundamentals of music, including notation of pitch and rhythm, the keyboard, basic precepts of tonality such as key, scale construction and basic chord formation. This course requires no previous musical experience and provides a foundation for the further study of music theory. It may serve as an introductory/refresher course for students considering the A.A. Music Option, but will not transfer to four-year music programs.

MUS 115  Basic Aural Skills
1 lecture hour, 1 credit
Prerequisite: RDG 099 or ENG 104

This course develops rudimentary ear training and sight-singing skills through applied practice with the basics of melodic and rhythmic notation, an introduction to solfege systems and melodic and rhythmic dictation. No prior musical training is required for this course: its co-requisite, Basic Musicianship (MUS 112), builds basic knowledge of melodic and rhythmic notation, clefs, scales and key signatures from the ground up. This course is designed to augment and complement MUS 112, providing reinforcement of those topics through the development of corresponding basic aural and keyboard skills.

MUS 121  History of Musical Theatre
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course gives students the opportunity to evaluate and compare a variety of musicals from the nineteenth century to present-day American and European Musicals including Minstrel Shows, Vaudeville, Operetta, Musical Comedy, Opera on Broadway and Rock Opera. Students will examine composers, lyricists, producers, directors, choreographers and performing artists who have contributed to the development of musical theater. Students will identify historical and cultural references and assess performances viewed in class and online to formulate an opinion of each production.

MUS 203  American Music
3 lecture hours, 3 credits
Prerequisites: MUS 101 and RDG 099 or ENG 104

Students will study seminal works of American art music to identify characteristics associated with major stylistic movements and multicultural influences throughout the recorded history of the American experience. Works and composers will be presented in the context of their sociocultural settings through lectures, discussions and multimedia demonstrations. Coursework includes assigned readings, listening and a group project.

MUS 207  Music History I: Music to 1750
3 lecture hours, 3 credits
Pre or Co-requisites: ENG 101 or ENG 101E

MUS 207 appraises the art of music through active listening, introducing basic musical concepts and developing listening perception. Recorded and visual materials are utilized in studying the elements, forms and styles of music with the aim of stimulating a discriminating understanding and enjoyment of various musical styles. The course is organized topically, not chronologically, and is not limited to historical musical styles; rather, through active listening students are drawn to discover commonalities among all types of music.

MUS 212  Music Theory
3 lecture hours, 3 credits
Prerequisites: RDG 099 or ENG 104 and MUS 112 or demonstrated understanding of rhythmic/pitch notation, intervals, scales and key signatures.
(Students wishing to enroll without having completed MUS 112 should contact the instructor; an entrance examination will be scheduled.)

Music Theory is designed for students wanting a deeper understanding of musical structure and function or those intending to major in music. The course covers tonal harmony, develops recognition of written and aural musical features and introduces modal counterpoint.

MUS 215  Basic Aural Skills
1 lecture hour, 1 credit
Prerequisites: MUS 112 and grade of “C” or higher or successful placement exam
Co-requisite: MUS 212

This course is designed to augment and complement, Music Theory (MUS 212); it develops ear training and sight-singing skills through the practice and cultivation of singing at sight, familiarity with solfege systems and dictation. This course assumes facility with melodic and rhythmic notation, scales and keys signatures and chord construction. The prerequisite (MUS 112, with a minimum grade of "C") may be waived depending on results of the placement exam. This course may be taken by any student wishing to improve aural mastery of music theory.
NMT – Nuclear Medicine Technology

**NMT 106 Radiation Safety and Biology**
1 lecture hour, 1 credit
Prerequisites: Acceptance into the program. Grade of “C” or higher in PHY 103, CHM 111, BIO 105 and BIO 106
Pre or Co-requisites: Grade of “C” or higher in ALH 107 and NMT 107

This course provides instruction in all aspects of radiation safety. NRC regulations and radiation biology are also reviewed.

**NMT 107 Radiation Physics**
2 lecture hours, 2 credits
Prerequisites: Acceptance into the program. Grade of “C” or higher in PHY 103, CHM 111, BIO 105 and BIO 106
Pre or Co-requisites: Grade of “C” or higher in ALH 107 and NMT 106

This course focuses on nuclear physics including the study of electromagnetic waves, the basis of radioactivity, converting units and terminology related to radioactivity.

**NMT 114 Clinical Imaging Procedures I**
2 lecture hours, 2 credits
Prerequisites: Acceptance into the program. Grade of “C” or higher in CHM 111, PHY 103, BIO 105 and BIO 106

This course focuses on nuclear medicine procedures including radiopharmaceutical dose, patient preparation, route of administration, indications, contraindications, imaging criteria and scan interpretation.

**NMT 116 Basic Nuclear Medicine Procedures**
1 lecture hour, 2 credits, 3 lab hours
Prerequisites: Acceptance into the program. Grade of “C” or higher in PHY 103, CHM 111, BIO 105 and BIO 106

Course Fee: G

This course is an introduction to clinical procedures including patient care, basic instrumentation, medical terminology, medical ethics and clinical imaging procedures. The laboratory component is designed to provide the student with the skill set needed to operate equipment commonly used in the field of Nuclear Medicine, and to provide patient-centered care and assessment related to Nuclear Medicine.

**NMT 205 Clinical Internship I**
450 clinical hours, 10 credits
Prerequisites: Grade of “C” or higher in: NMT 106, NMT 107, ALH 107, NMT 114 and NMT 116

This course introduces students into the clinical environment with directed practice in nuclear radiopharmacy, clinical imaging procedures and basic instrumentation.

**NMT 210 Clinical Imaging Procedures II**
1 lecture hour, 1 credit
Prerequisites: Grade of “C” or higher in: NMT 106, NMT 107, ALH 107, NMT 114 and NMT 116
Pre or Co-requisite: Grade of “C” or higher in NMT 205, NMT 215

This course examines scanning protocols for additional nuclear medicine procedures. Focus is on radiopharmaceutical dose, patient preparation, route of administration, indications, contraindications, imaging criteria and scan interpretation.

**NMT 215 Radiopharmacy**
1 lecture hour, 2 credits, 3 lab hours
Prerequisites: Grade of “C” or higher in CHM 111, NMT 106, NMT 107, ALH 107, NMT 114 and NMT 116
Pre or Co-requisite: Grade of “C” or higher in NMT 205 and NMT 210
Course Fee: G

This course focuses on developing the didactic knowledge and laboratory practice of all aspects of nuclear pharmacology including radiopharmaceutical kit preparation, Department of Transportation radioactive package transportation guidelines, package receipt, monitoring, disposal and inventory.

**NMT 227 Clinical Internship II**
450 clinical hours, 10 credits
Prerequisites: Acceptance in the program, grade of “C” or higher in: NMT 205, NMT 210 and NMT 215
Pre or Co-requisite: Grade of “C” or higher in NMT 230 and NMT 233

This course completes the clinical component by providing clinical practice of advanced instrumentation procedures, clinical imaging procedures and radiopharmaceutical preparation and administration.

**NMT 230 Nuclear Instrumentation and Statistics**
1 lecture hour, 2 credits, 3 lab hours
Prerequisites: Grade of “C” or higher in: NMT 205, NMT 210 and NMT 215
Pre or Co-requisite: Grade of “C” or higher in NMT 227 and NMT 233
Course Fee: G

This course includes the study of the components, operating principles and quality control procedures of nuclear and fusion imaging instrumentation, including Computed Tomography. The laboratory component provides the student with the opportunity to analyze imaging and quality control statistical data to determine the most appropriate course of action.

**NMT 233 Clinical Imaging Procedures III**
1 lecture hour, 1 credit
Prerequisites: Grade of “C” or higher in: NMT 205, NMT 210 and NMT 215
Pre or Co-requisite: Grade of “C” or higher in NMT 227 and NMT 230

This capture course completes the didactic instruction of NMT clinical imaging procedures.
NTR – Nutrition

**NTR 101 Nutrition for Health Professions**

3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104

This course will provide students interested in pursuing a healthcare profession with scientific, evidence-based information on human nutrition. Topics covered include food choices that impact health; the digestive system; metabolism; the effects of both macro and micronutrients on health; nutrition’s applications to both health and disease; and nutrition’s requirements throughout life. Nutrition’s impact in morbidity and mortality is a main focus of this course. Students will assess their own personal diet patterns and will develop nutrition plans incorporating healthy eating strategies. Throughout the course, the students will critically evaluate sources of nutrition information for reliability.

NUR – Nursing

**NUR 105 Nursing Reflections**

2 lecture hours, 2 credits  
Prerequisite: Completion of at least one semester of nursing education or permission from the Dean of Nursing and Health Professions

This course is required for the student nurse who has experienced at least one semester of absence from the RCSJ nursing curriculum. Emphasis is placed on refreshing knowledge and skills to facilitate success in the classroom and clinical components of future nursing (NUR) courses. All activities will take place on the RCSJ campus.

**NUR 106 Dosage Calculations for Nurses**

1 lecture hour, 1 credit  
Prerequisite: MAT 050 or MAT 051

This course will include a review of essential math concepts for dosage calculation including fractions, percentages, ratios, measurements and conversions. Practice and assessment tests will include problems featuring medication administration, including oral, intravenous and parenteral routes. Accreditation standards of medication administration will be emphasized.

**NUR 107 Introduction to Nursing Informatics**

1 lecture hour, 1 credit  
Prerequisites: RDG 099 or ENG 104 and NUR 131 or Registered Nurse license or Licensed Practical Nurse license

This course will introduce the student to important informatics tools that are currently being utilized in health care to ensure safe and quality care. Electronic Health Records (EHR), telehealth, personal reference management software, Evidence-Based Practice (EBP) and HIPAA will be emphasized.

**NUR 122 Pharmacology for Health Professionals**

3 lecture hours, 3 credits  
Co-requisite: BIO 106

This course introduces the principles of pharmacotherapy. Origins and classifications of drugs are presented. Safe administration of drugs is stressed, including food and drug interactions and dosage calculation. Selection of alternative therapies are discussed. Legal and ethical aspects of drug use are also emphasized.

**NUR 123 LPN-RN Track Program**

2 lecture hours, 2 credits  
Prerequisite: Acceptance into the Nursing program, current LPN License  
Co-requisite: BIO 106

This course introduces the Licensed Practical Nurse to the role of the registered professional nurse and is the foundation for all subsequent nursing courses. The nurse’s role in promotion, maintenance and restoration of health is explored within the context of a research and practice-oriented profession. Nursing trends, the teaching learning process and the art and science of caring are discussed. Legal and ethical aspects of the profession are explored. A component of this course will familiarize the student with the technology utilized within RCSJ and the Nursing Program. NOTE: Upon successful completion of NUR 123 LPN-RN students will matriculate into generic track.

**NUR 130 Nursing I Lab**

3 lab hours, 1 credit  
Prerequisite: Acceptance into the Nursing program  
Co-requisite: NUR 131

This course focuses on the skills and behaviors necessary for beginning nursing practice. It is a complement to Nursing I. Students will practice in the College lab.

**NUR 131 Nursing I**

5 lecture hours, 6 clinical hours, 7 credits  
Prerequisite: Acceptance into the Nursing program  
Co-requisites: NUR 130, BIO 105 and PSY 101  
Program Fee: $1,150

This course serves as a foundation for understanding health and providing care across the lifespan. The student is introduced to concepts and techniques used in health care. Critical thinking is integrated into the nursing process. Clinical experiences occur in a variety of health care settings.

**NUR 140 Nursing II Lab**

3 lab hours, 1 credit  
Prerequisites: NUR 130 and NUR 131  
Co-requisite: NUR 141

This course focuses on the skills and behaviors necessary for nursing practice and is a continuation of Nursing I Lab. It is a complement to Nursing II. Students will practice in the College lab.
## Nursing Programs

**NUR 141 Nursing II**  
4 lecture hours, 9 clinical hours, 7 credits  
**Prerequisites:** NUR 130, NUR 131, BIO 105 and PSY 101  
**Co-requisites:** NUR 140, BIO 106 and PSY 211  
**Program Fee:** $1,150  
This course focuses on providing holistic care for clients with alterations requiring perioperative care and those with alterations in mobility. The course introduces the student to the care of clients with cancer. Students will also care for childbearing and childrearing families. Critical thinking is developed through the use of the nursing process. Clinical experiences occur in a variety of health care settings.

**NUR 207 Nursing Issues and Trends**  
1 lecture hour, 1 credit  
**Prerequisite:** NUR 141  
This course emphasizes the associate degree nurse’s role in relation to the profession and the healthcare team. Historical and current issues, legal and ethical aspects, nursing leadership and management are discussed.

**NUR 215 Nursing III**  
4 lecture hours, 12 clinical hours, 8 credits  
**Prerequisites:** NUR 123, NUR 140, NUR 141, BIO 106 and PSY 211  
**Co-requisite:** BIO 215  
**Program Fee:** $1,150  
This course focuses on caring for clients with mental health, cardiopulmonary, endocrine and gastrointestinal alterations. Critical thinking is integrated into the nursing process. Therapeutic communication and professional development are emphasized. Clinical experiences occur in a variety of health care settings.

**NUR 220 Transition to Practice**  
1 lecture hour, 6 clinical hours, 3 credits  
**Prerequisite:** NUR 221  
**Course Fee:** Cost of HESI Exit exam and curriculum review course  
This course provides students with an opportunity for a concentrated Capstone clinical experience in a selected area with an individual Registered Nurse Preceptor. Learning through experience is emphasized while preparing students for transition to Registered Nurse practice. Focus is on integration of knowledge, continued development of critical thinking skills and life-long learning.

**NUR 221 Nursing IV**  
4 lecture hours, 12 clinical hours, 8 credits  
**Prerequisites:** NUR 215 and BIO 215  
**Program Fee:** $1,150  
This course focuses on providing holistic care for groups of clients with multisystem problems, including neurologic, endocrine, liver, biliary, pancreatic, urinary and renal alterations. Critical thinking is refined. Management, leadership and professional development are emphasized. Clinical experiences occur in a variety of health care settings.

## PHI – Philosophy

**PHI 101 Introduction to Philosophy I**  
3 lecture hours, 3 credits  
**Prerequisite:** RDG 099 or ENG 104  
Aims, functions and methods of philosophy are examined. Topics include appearance and reality, concepts and judgments, and language, words and meaning. Selected readings from great philosophers are assigned to acquaint students with systematic approaches to logic, ethics and aesthetics.

**PHI 104 Ethics**  
3 lecture hours, 3 credits  
**Prerequisite:** RDG 099 or ENG 104  
PHI 104 considers the nature of moral problems and normative principles. The adequacy of moral theories and evaluations of ethical perspectives are discussed, along with the concepts of good and evil, duty and virtue. The course applies ethics with special references to the dignity of and respect for the person.

**PHI 110 Religions of the World**  
3 lecture hours, 3 credits  
**Prerequisite:** RDG 099 or ENG 104  
PHI 110 provides an understanding of various religions, their sacred literature, their distinctive characteristics and the relevance of their teachings. An examination of the origins, development, practices, teachings and writings, with an integration of historical events, is followed by a consideration of pertinent worldwide contemporary problems.

**PHI 150 Critical Thinking**  
3 lecture hours, 3 credits  
**Prerequisite:** RDG 099 or ENG 104  
This course introduces the process of critical thinking and analytical reasoning through writing and problem solving. Students must demonstrate skills through writing, discussion and research methodology.

**PHI 201 Philosophy and History of Science**  
3 lecture hours, 3 credits  
**Prerequisites:** RDG 099, ENG 104 and a lab science  
This course is a survey of the philosophy and history of science from Aristotle to Newton to current world views. Topics may include ancient and medieval philosophies, the structure of the universe, development of scientific laws, Newtonian physics, natural selection and the development of new physics of the early twentieth century.
PHI 204  Contemporary Moral Issues  
3 lecture hours, 3 credits  
Prerequisites: RDG 099 or ENG 104 and PHI 101

This course introduces several contemporary approaches to moral issues and decision-making. We will investigate what makes an action right and wrong for a person living within a social arrangement, and what principles of conduct should guide communal living. Questions we will discuss include: What matters and why? Does human nature imply the right conduct? What is the basis to evaluate action as being morally right or wrong? Does moral wrongness of an action provide decisive reason for not doing this action? What authorizes moral standards for social conduct? The course will address such social issues of the contemporary Western society as, capital punishment, same sex marriage, abortion, social liberty, drug control and other issues.

PHI 210  Ancient and Medieval Philosophy  
3 lecture hours, 3 credits  
Prerequisites: RDG 099 or ENG 104 and PHI 101

This course surveys the thought of several of the most important ancient and medieval philosophers. Ancient philosophy was initiated by Greeks living in Asia. Later, it was strengthened by Greek philosophers living in Athens, and elaborated in various ways by their Greek and Roman successors. The works of the ancient philosophers were then transmitted and integrated into the diverse teachings of Muslim, Jewish and Christian thinkers in medieval period. We shall read works, excerpts, or fragments by authors such as Parmenides, Heraclitus, Plato, Aristotle, Plotinus, St. Augustine, Avicenna, Averroes and St. Thomas Aquinas.

PHY – Physics

PHY 101  Principles of Physical Science I  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: RDG 099 or ENG 104  
Course Fees: C, H

Physical Science develops awareness, understanding and appreciation of the physical environment. The dynamic nature of physical science is presented conceptually rather than mathematically. Concepts pertain to matter and energy. Laboratory experiences, designed to augment the conceptual approach, are included.

PHY 103  General Physics I  
3 lecture hours, 3 lab hours, 4 credits  
Pre or Co-requisites: MAT 110 and RDG 099 or ENG 104  
Course Fees: C, H

Students will study principles of classical mechanics which include: kinematics, dynamics, statics, energy, momentum, rotational motion and mechanical properties of materials. The laboratories are integrated into each subject area in order to reinforce the concepts presented to the student.

PHY 104  General Physics II  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: PHY 103  
Course Fees: C, H

PHY 104 is the second semester of a two-semester, algebra-based physics course. The course provides in-depth coverage of various physical topics including fluid dynamics, heat, thermodynamics, light, electricity and magnetism.

PHY 105  Modern Astronomy  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: RDG 099 or ENG 104  
Course Fees: C, H

This course for the non-science major spans most of the scientific spectrum: physics, astronomy, earth science and biology. No prior physics or physical science background is required. Emphasis is on the properties of the universe and the human relationship to them. Laboratory experiences include field sessions with a telescope and planetarium.

PHY 107  Technical Physics  
3 lecture hours, 3 lab hours, 4 credits  
Pre or Co-requisites: MAT 110 and RDG 099 or ENG 104  
Course Fees: C, H

Emphasis is on establishing and maintaining a relevancy between the study of physics and its practical applications in the vocational field and problem solving. The development of competency in applied physics is stressed. Practical applications of classical mechanics, properties of matter, heat, light, sound, electricity and magnetism are studied.

PHY 110  Applied Physics  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisites: RDG 099 or ENG 104 and MAT 109 and Admission to Automotive Technology program  
Course Fees: C, H

This course addresses properties of matter, principles of hydraulics, dynamics, friction, simple machines and the fundamentals of heat, electricity, electromagnetism and light as these relate to automotive components. Emphasis is on development of skills needed to perform automotive mechanical and electrical diagnosis. Laboratory experiences, designed to augment the conceptual approach to this course, are included.

PHY 111  Earth Science: Land and Sea  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: RDG 099 or ENG 104  
Course Fees: C, H

This course is for non-science majors who need to meet their science requirement for graduation. The emphasis is on geology and oceanography.

PHY 112  Earth Science: Air and Space  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: RDG 099 or ENG 104  
Course Fees: C, H

This course is for non-science majors who need to meet their science requirement for graduation. Emphasis is on meteorology and astronomy. Earth Science I is not required to complete this course.
PHY 121  Physics for Everyday Life  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: RDG 099 or ENG 104  
Course Fees: C, H  
This course is a practical introduction to physics and science in everyday life. It considers objects from our daily environment and focus on their principles of operation and relations to one another.

PHY 201  Physics I (calculus-based)  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisites: “C” or higher in MAT 108 and RDG 099 or ENG 104  
Co-requisite: MAT 122  
Course Fees: C, H  
This course is designed for students of science and pre-engineering. The fundamentals of classical physics are developed in depth through the use of calculus. Emphasis is placed on static, dynamic, kinematic and rotational motion.

PHY 202  Physics II (calculus-based)  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: MAT 122, “C” or higher in PHY 201  
Course Fees: C, H  
This course is a continuation of Physics I (calculus-based). The fundamentals of wave motion, fluid mechanics, light phenomena and relativistic mechanics are studied.

PHY 203  Physics III (calculus-based)  
3 lecture hours, 3 lab hours, 4 credits  
Pre or Co-requisites: PHY 202 and MAT 122  
Course Fees: C, H  
This is a continuation of Physics II (calculus-based). The fundamentals of wave motion, fluid mechanics, light phenomena and relativistic mechanics are studied.

PHY 241  Forensic Science I  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisites: for Criminal Justice majors, CRJ 101 for all others, RDG 099 or ENG 104 and MAT 050  
Course Fees: C, H  
Designed for the non-science major, this course is an introduction to the applications of the physical, chemical, and biological principles necessary to provide students with a basic understanding of forensic science as the intersection of these different scientific areas. The use of fundamental scientific principles in laboratory experiments will provide students with an appreciation of modern forensic techniques.

PHY 242  Forensic Science II  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: PHY 241  
Course Fees: C, H  
This course involves a more detailed inquiry into the methods and procedures utilized by the forensic crime laboratory in the examination of physical evidence. Emphasis is on field test equipment utilized at the crime scene and laboratory procedures employed for more detailed analysis.

PLG – Paralegal

PLG 101  Introduction to Legal Studies  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
This course is an introduction to the legal assistant profession; the system of jurisprudence, its history, philosophy and current trends. The role, ethics and responsibilities of the legal assistant, court structures and court procedures will also be examined. Emphasis is on ethical considerations, the code of ethics, the professional responsibility of NALA and the affirmation of professional responsibility of NFPA and other standards of conduct. The New Jersey court system and the American legal system are explored.

PLG 102  Litigation and Civil Procedure  
3 lecture hours, 3 credits  
Prerequisite: PLG 101  
This course is a comprehensive survey of civil litigation and procedure. Law and litigation techniques from the filing of the lawsuit through the appellate process will be examined. Students draft complaints, pleadings, interrogatories and a digest of a deposition. Federal and state court rules are studied.

PLG 103  Legal Research and Writing  
3 lecture hours, 3 credits  
Prerequisites: ENG 101 or ENG 101E and PLG 101  
This course develops basic skills in analyzing legal problems, researching the problems and searching for legal authority. Students analyze legal problems using locators, brief cases, use Shepard’s Citators and use computer-assisted legal research and reporter systems.

PLG 104  Torts  
3 lecture hours, 3 credits  
Prerequisites: PLG 101 and PLG 103  
This course is a study of the three basic forms of tort liability (intentional torts, negligence, strict liability). Consortium, alienation of affection, loss of consortium and business torts including product liability and criminal conversion are covered.

PLG 110  Contemporary Issues in Paralegal Studies  
3 lecture hours, 3 credits  
Prerequisite: PLG 101  
Contemporary Issues in Paralegal Studies is designed to give in-depth knowledge and practical understanding of the paralegal’s role in the specified area of law. The course is designed to give students an opportunity to study areas of law that are currently expanding and/ or developing. The student will be expected to demonstrate substantive knowledge of the subject matter as well as professional competency in completing assignments typical to actual practice. Since the “contemporary issue” may change, students should consult the course-offering schedule each semester. Students may repeat the contemporary issues course as long as different issues are offered and as long as they do not exceed the maximum number of hours permitted. A maximum of six credit hours in contemporary issues may be applied toward degree program graduation or certificate completion requirements. Because contemporary issues courses may present transfer difficulties, students should check with their transfer institution’s transfer coordinator before enrolling.
PLG 125  Business Organizations for Paralegals  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
Co-requisite: PLG 101  

This course introduces the paralegal student to the principles of agency law and the basic forms of business organizations, including sole proprietorships, partnerships, limited liability companies and corporations. Students will prepare the documents necessary to the organization and operation of each form of business.

PLG 201  Criminal Law and Procedure for Paralegals  
3 lecture hours, 3 credits  
Prerequisites: PLG 101, PLG 103  

This Criminal Law and Procedure course is designed to provide student paralegals with an overview of the criminal justice process. This course covers the substantive aspects of criminal law and includes the general principles of criminal liability, specific analysis of particular crimes, parties to crimes and substantive defenses to crimes. Constitutional safeguards and procedures from arrest through trial, sentencing, punishment and appeal are also studied.

PLG 203  Bankruptcy  
3 lecture hours, 3 credits  
Prerequisite: PLG 101  

This course introduces the student to bankruptcy law with emphasis on the paralegal's role. Topics include an introduction to the bankruptcy law, bankruptcy court procedures and the preparation of bankruptcy forms and documents, debtor's and creditor's rights and litigation proceedings in bankruptcy court. Students will learn to recognize ethical considerations for paralegals working in this area and learn current computer applications utilized in a bankruptcy practice. Emphasis will be on consumer bankruptcy including Chapter 7 and 13 of the Bankruptcy Code and the role of the paralegal as part of a team in a bankruptcy practice.

PLG 204  Technology in the Law Office  
3 lecture hours, 3 credits  
Prerequisites: PLG 101, PLG 103, CIS 102 or CIS 120  

This course will provide a general introduction to the use of computers and legal specialty software in the modern law office. It includes hands-on computer exercises using professional software programs frequently used in the law office by paralegals. An additional course fee may be charged.

PLG 205  Wills, Trusts and Estate Planning  
3 lecture hours, 3 credits  
Prerequisites: PLG 101 and PLG 103  

This course covers the Probate Code of New Jersey Probate Procedure, descendants' estates, death and inheritance taxes and other related problems. Special attention will be given to will and tax preparation.

PLG 207  Family/Domestic Law  
3 lecture hours, 3 credits  
Prerequisites: PLG 101 and PLG 103  

This is a study of divorce and dissolution procedures, family court systems, child support enforcement procedures, custody disputes, adoption procedures and aspects of juvenile law.

PLG 209  Legal Assistant Practicum  
1 lecture hour, 210 co-op hours, 3 credits  
Prerequisites: 45 credits, including 15 PLG credits or equivalent, PLG 212  

This is a study of the law office, the establishment and maintenance of filing systems, tickler system of scheduling, personnel management, accounting, time management and telephone and client interview techniques.

PLG 210  Property Transactions  
3 lecture hours, 3 credits  
Prerequisites: PLG 101, PLG 103 and BUS 107  

This is a study of the types of property transactions and related matters. Topics include contracts, mortgages, leases, deeds and a review of title searches and recording statutes. Students will learn to prepare a real estate closing.

PLG 212  Paralegal Skills and Office Practices  
3 lecture hours, 3 credits  
Prerequisites: PLG 101, PLG 103  

This course focuses on the practical application of substantive law including, but not limited to, civil litigation, family law, real property, probate practice, wills, trusts, the administration of decedents' estates and legal research. Students will also be instructed in New Jersey Court Rules and Procedures and in locating and preparing legal forms. Paralegal Office Management skills and practices will also be covered.

POL – Political Science  

POL 101  American Federal Government  
3 lecture hours, 3 credits  

This introductory political science course stresses fundamental principles of American Federal government. The structure of government is studied along with power distributions and its concomitant conflicts. Civil liberties, political parties, elections and citizenship are carefully considered.

POL 103  Introduction to Political Science  
3 lecture hours, 3 credits  

This is an introductory course in political science with emphasis on the tools of the discipline, political systems, political policy making, political philosophy and political change.

PSY – Psychology  

PSY 100  Interpersonal Psychology  
3 lecture hours, 3 credits  
Placement is based on basic skills test results  
Open to Developmental program students only  

Students participate in a study of human interaction. Stress is on interpersonal relationships and how people adapt to various social and personal situations. Training techniques such as role playing, observations and discussion groups are included. This course does not count as a social science elective.
PSY 101  General Psychology  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  

This is an introduction to the study of behavior. The scientific method is studied with its application as seen in the principal research findings in the major areas of modern psychology, such as human development and individual differences, sensation and perception, learning and intelligence, personality formation and abnormal psychology.

PSY 203  Educational Psychology  
3 lecture hours, 3 credits  
Prerequisite: PSY 101  

This course focuses on the learning process in children and adolescents, especially in an educational setting, with emphasis on motivation, problem solving, assessment and evaluation; environmental and hereditary influences in learning and theories of learning. Field observations and reports are required.

PSY 211  Psychology of Human Development  
3 lecture hours, 3 credits  
Prerequisite: PSY 101  

This study of the psychology of the human lifespan includes prenatal, infancy, childhood, adolescence, adulthood and aging development. Social-emotional theories of development, cognitive and language development and issues related to the stages of development are discussed.

PSY 212  Psychology of the Adolescent  
3 lecture hours, 3 credits  
Prerequisite: PSY 101  

This course considers patterns of behavior characteristics from puberty to adulthood. Emphasis is on developmental changes in physical, intellectual, motivational and emotional growth in a cultural context.

PSY 213  Child Psychology  
3 lecture hours, 3 credits  
Prerequisite: PSY 101  

Development and analysis of prenatal factors and infant and child behavior are considered. Topics include motor development, emotional development, motivation, language, thinking, work and play. Problems and methods of child study, application of research, effects of heredity and environment on the individual, individual differences and theories of personality development are studied. Observations are required.

PSY 215  Psychology of Aging  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  

This is a study of the changing personality and behavior of the aging person and the effect of the changing nervous system on psycho/social relationships.

PSY 230  Abnormal Psychology  
3 lecture hours, 3 credits  
Prerequisite: PSY 101  

This is a study of behavior and personality disorders. Social, physiological and individual factors of behavior disorganization, evaluation and treatment are reviewed.

PSY 231  Abuse and Violence in the Family  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  

This course focuses on causes of abuse and violence in the family and strategies for reducing and eliminating abuse. Spouse/partner abuse, child abuse and elder abuse are addressed from legal, medical and social perspectives. Seminar format is utilized.

PSY 240  Social Psychology  
3 lecture hours, 3 credits  
Prerequisite: SOC 101 or PSY 101  

This is an introduction to the concepts of group behavior, their empirical foundations and their implications for the individual in interpersonal relationships.

PTA – Physical Therapist Assistant

PTA 101 Introduction to Physical Therapist Assisting  
1 lecture, 1 credit  
Prerequisite(s): Grade of "C" or better in ENG 101 or ENG 101E  
Co-requisite: HPE 106, PTA 102  
Course Fee: Program Fee  

This course will provide an introduction to the physical therapy profession, including a history of the American Physical Therapy Association; the role of the PTA as a member of the health care team; the PT/PTA relationship; physical therapy practice settings and specialties; as well as an introduction to physical therapy regulations, ethics, patient communication, patient health care records and documentation.

PTA 102  Kinesiology and Measurement of the Musculoskeletal System  
3 lecture hours, 7 lab hours, 6 credits  
Prerequisite: Grade "C+" or better in each of the following:  
BIO 105 and MAT 115  
Pre or Co-requisite: BIO 106, PTA 101  
Course Fees: I, R  

Building upon Anatomy and Physiology I, this course will provide an in-depth study of the biomechanical principles and anatomical structures responsible for human movement; as well as the fundamentals and physiological effects of therapeutic exercise. Students will be expected to demonstrate in lab competency with palpation of anatomical landmarks; assessing anthropometric measurements, muscle strength, joint range of motion, posture and gait; and performing common therapeutic exercises for strengthening, stretching, balance and coordination. Documentation regarding data collection and treatment interventions will also be included.
PTA 105  Pathophysiology for the PTA  
2 lecture hours, 2 credits  
Prerequisite: Grade of "C+" or better in BIO 106  
Co-requisites: PTA 107, PTA 210  

The student is introduced to the medical and surgical conditions most frequently encountered in PT departments, with emphasis on the role of the PTA in the treatment of each. The basic inflammatory and healing processes and the principles of treatments to promote healing are covered. Students will become familiarized with the essential nature of diseases and abnormalities of structure and function that are characteristic of diseases. Students will receive an introduction to pharmacology and to the systematic review of professional literature to research PT-related diagnoses.

PTA 107  Essential Skills for the PTA I: Patient Care  
2 lecture hours, 6 lab hours, 4 credits  
Prerequisite: PTA 102  
Co-requisites: PTA 105  
Course Fees: I, R  

This course will introduce students to fundamental patient care skills and assessment techniques, including patient interviewing, vital signs, body mechanics, positioning, bed mobility, transfer techniques, gait training, aseptic techniques, basic wound care and wheelchair management. During laboratory time, students will practice skills utilizing simulated patient care scenarios prior to being assessed through skill competency testing and practical examinations.

PTA 207  Essential Skills for the PTA II: Biophysical Agents  
2 lecture hours, 6 lab hours, 4 credits  
Prerequisite: PTA 102  
Co-requisite: PTA 208  
Course Fees: Program Fee, I, R  

This course is designed to prepare students for the safe and effective application of therapeutic modalities in physical therapy practice. Mechanisms of action, indications, contraindications, precautions and parameters will be covered for the use of superficial and deep heat; cryotherapy; mechanical compression; electrotherapy; spinal traction; therapeutic massage; hydrotherapy and light therapy. Lecture and laboratory activities will develop problem solving and critical thinking skills regarding the use of therapeutic modalities and skills will be assessed to competence level.

PTA 208  Management of Neurological Disorders Across the Lifespan  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: PTA 105  
Co-requisite: PTA 207  
Course Fees: H, R  

This course will focus on the characteristics and treatment of pediatric and adult neurological disorders, as well as their impact on human motor development. Students will be taught the concepts of motor control and motor learning development, as well as the theory and practical application of treatment interventions utilized for the treatment of patients with neurological disorders. The focus will be on patient function including assessment instruments used to identify and document architectural barriers and the level of assistance needed for performance of activities of daily living. Skills learned in lab will be tested to a level of competence throughout the semester.

PTA 209  Clinical Experience I  
90 clinical hours, 2 credits  
Prerequisites: PTA 102, PTA 107, PTA 207 (Practical #1) and PTA 210  
Course Fee: S  

This is an integrated clinical affiliation used to introduce the Student Physical Therapist Assistant (SPTA) to the operational procedures of a clinical setting. The student will be immersed in patient/clinician interactions as well as the PT-PTA relationship and will be expected to perform at the advanced beginner level for skills in data collection techniques and mobility training. The SPTA must maintain proficiency in all areas of patient safety.

PTA 210  Orthopedics for the PTA  
1 lecture hour, 1 lab hour, 1 credit  
Prerequisite: PTA 102  
Co-requisites: PTA 105, PTA 107  
Course Fee: G  

This course builds upon the concepts introduced in PTA 102 Kinesiology and Measurement of the Musculoskeletal System, with a focus on common orthopedic injuries, disorders and surgeries. PTA students will receive instruction on the phases of musculoskeletal tissue healing, treatment interventions, patient education and therapeutic exercise progression within the plan of care developed by the supervising physical therapist.

PTA 216  Cardiovascular and Pulmonary PT  
1 lecture hour, 2 lab hours, 2 credits  
Prerequisites: PTA 102, PTA 105  
Course Fees: G, R  

This course will focus on assessment techniques and treatment interventions for cardiovascular and pulmonary pathologies, as well as assessment and treatment for patients with amputations. Knowledge and lab skills will be assessed through skill-competency testing, written examinations and practical examinations.
PTA 229  Clinical Experience II
270 clinical hours, 6 credits
Prerequisites: PTA 207, PTA 208, PTA 209, PTA 210 and PTA 216
Co-requisite: PTA 240
Course Fee: S

Knowledge and skills learned in all PTA program coursework will be integrated and applied to direct patient care during this 6-week, full-time clinical education experience. In addition, students will complete five clinical conference hours online each week. By the conclusion of the experience, students will be expected to safely perform quality physical therapy care for routine patients with minimal supervision and guidance from the supervising physical therapist.

PTA 239  Clinical Experience III
270 clinical hours, 6 credits
Prerequisite: PTA 229
Co-requisite: PTA 240
Course Fee: S

Knowledge and skills learned in all PTA program coursework will be integrated and applied to direct patient care during this six-week, full-time clinical education experience. In addition, students will complete five clinical conference hours online each week. By the conclusion of the experience, students will be expected to safely perform quality physical therapy care at the level of an entry-level physical therapist assistant.

PTA 240  Seminar in PTA Professionalism
1 lecture hour, 1 credit
Prerequisite: PTA 209
Co-requisites: PTA 229 and PTA 239
Course Fees: Program Fee, T

This capstone course is designed to further develop the professional behaviors and expectations of an entry-level physical therapist assistant including exploration of topics related to ethics and jurisprudence. Assignments will include completing the steps necessary to apply for the National Physical Therapy Exam and for state licensure. Students will be expected to participate in the implementation of a community-based or volunteer service learning project.

PTE – Process Technology

PTE 101  Process Technology I: Introduction to Process Technology
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course is designed to serve as an introduction to the field of Process Technology for the Chemical, Energy, Food, Oil and Gas, Pharmaceuticals, Pulp and Paper, Power, Refining and Waste Treatment industries. Students will develop an understanding of the roles, responsibilities and expectations of a Process Operator, process terminology, plant organization and operations, equipment and systems.

PTE 102  Process Technology II: Instrumentation
3 lecture hours, 3 credits
Prerequisites: Minimum grade of “C” in PTE 101 and CHM 107

This course is designed to equip students with the instrumentation and documentation skills necessary to work in the field of Process Technology. Students will understand common terminology, relationships between process variables and process instruments controlling pressure, temperature, flow and level. Control loops and the interactions between each component of a control loop will be examined. Students will also have the opportunity for field experience/ activity by visiting manufacturing sites and will benefit from experts in the field.

PTE 103  Principles of Occupational Safety and Health
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: Minimum grade of “C” in PTE 101 and CHM 107
Course Fee: G

This course will introduce students to industrial hygiene by evaluating the sampling and analytical techniques required to evaluate chemical, physical and biological health and safety hazards in the industrial environment. Students will understand the fundamentals of Occupational Safety and Health as it relates to industrial work environments.

PTE 101  Process Technology Equipment
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: Minimum grade of “C” in PTE 101
Pre or Co-requisite: CHM 107
Course Fee: H

This course will introduce students to the equipment commonly utilized in the process industries. Students will learn about the operation of processing equipment such as piping, tubing, valves, pumps, compressors, motors, reactors, filters, dryers and gauges.

PTE 201  Process Technology Systems and Troubleshooting
5 lecture hours, 5 credits
Prerequisite: Minimum grade of “C” in PTE 102

This course will introduce students to the relationships between process equipment and systems. Students will identify and explain how process systems are controlled under normal conditions, recognize abnormal process conditions and how to troubleshoot the system.

PTE 202  Industrial Process Operations
3 lecture hours, 3 credits
Prerequisite: Minimum grade of “C” in PTE 102

This course will provide an overview of the common types of industrial field processes. Students will explore types of commercial processes and understand the operation of an entire operating process unit.
RDG – Reading

**RDG 099 Introduction to College Reading III**
3 lecture hours, 3 credits
*Prerequisite: Placement scores*

The course is for students who have a strong background in literal comprehension and need practice in evaluative questioning and skill application to college-level reading.

SCI – Science

**SCI 105 Introduction to Experimentation**
1 lecture hour, 1 credit

An introductory course exploring the Scientific Method and the concepts of experimental design. This is a one-credit course designed for students pursuing careers in science or students wanting to have a better understanding of the scientific process.

**SCI 110 Women in STEM Seminar**
1 lecture hour, 1 credit
*Prerequisite: RDG 099 or ENG 104 and permission from Dean of STEM*

The focus of this course will be on the history of women in science and current obstacles women face in scientific fields. We will discuss recommendations for change with the goal of encouraging the participation in and representation of women in science. Gender-inclusive, alternative teaching methods that emphasize cooperative learning, group discussion and critical analysis will be incorporated.

**SCI 201 Honors Research**
1 lecture hour, 10 lab hours, 3 credits
*Prerequisite: BIO 102 or BIO 106, CHM 111 and minimum GPA 3.5*

This course is designed to provide STEM majors with practical experience while working for 10 hours/week at a field location. The course is designed for students who aspire to gain career-related experience while completing their degree. This course will have an academic experience and a supervised work experience.

SOC – Sociology**

**SOC 101 Principles of Sociology**
3 lecture hours, 3 credits
*Prerequisite: RDG 099 or ENG 104*

This is a study of the basic concepts of sociology applied to modern society and the use of the scientific methods in sociology. Analysis of social relationships, groups, institutions, population, systems of control and social change will be examined.

**SOC 102 Sociology of the Family**
3 lecture hours, 3 credits
*Prerequisite: RDG 099 or ENG 104*

This course studies the American family from a contemporary and sociological viewpoint. The essence of the family in an historical cross-cultural perspective and new experiments in family lifestyles are explored. Emphasis is on the family as an important social institution.

**SOC 104 Social Problems**
3 lecture hours, 3 credits
*Prerequisites: RDG 099 or ENG 104*

This course examines the social problems in society using sociological theories and concepts. Contemporary social problems including, but not limited to, racial and ethnic relations, family problems, crime, mental illness, poverty and alcoholism will be analyzed.

**SOC 130 Society, Ethics and Technology**
3 lecture hours, 3 credits
*Prerequisite: RDG 099 or ENG 104*

This course investigates the relationship between technological advances and the influence they have had on society throughout history. Social and cultural changes are reviewed in the context of technology and ethical issues that contemporary society faces because of new technological developments.

**SOC 160 Introduction to Social Work**
3 lecture hours, 3 credits
*Prerequisites: RDG 099 or ENG 104 and SOC 101*

This course will explore social work in contemporary society. Social work theories, processes and concepts utilized in social service delivery systems will be examined.

**SOC 220 Sociology of Juvenile Delinquency**
3 lecture hours, 3 credits
*Prerequisite: RDG 099 or ENG 104*

This is an orientation to the divergent theories, philosophies, values, attitudes and historical events that have contributed to the operation of modern juvenile justice systems; causes and attempts to prevent delinquency; identification of delinquents; detention and treatment methods; adjudication and dispositions including related social agencies.

**See also CRJ courses**
SPA – Spanish

SPA 101  Elementary Spanish I
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
Introductory grammar and pronunciation form the basis of this course, designed to develop communicative skills in Spanish. Oral and written exercises and reading of easy prose and dictations are the points of departure.

SPA 102  Elementary Spanish II
3 lecture hours, 3 credits
Prerequisite: SPA 101 or one year of high school Spanish
Advanced grammar and vocabulary are explored in the development of comprehension, writing and speaking of Spanish.

SPA 120  Spanish for Law Enforcement
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This course introduces the law enforcement officer to the Hispanic culture in America and increases cross-cultural awareness. It provides a working knowledge of Spanish specific to job responsibilities.

SPA 130  Spanish for the Medical Profession
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
Spanish for the Medical Profession prepares health care workers to communicate effectively when providing medical care and attention to Spanish-speaking patients in medical settings. In addition to workplace Spanish language, the course provides transcultural training. Emphasis is on enhancing quality patient care.

SPA 201  Intermediate Spanish I
3 lecture hours, 3 credits
Prerequisite: SPA 102 or two years of high school Spanish
A general review of grammar and speech patterns accompanies the introduction of selected readings from Spanish literature. The class is conducted primarily in Spanish.

SPA 202  Intermediate Spanish II
3 lecture hours, 3 credits
Prerequisite: SPA 201 or 3 years of high school Spanish
Increased dependence on fluency is emphasized through classroom discussions in Spanish of culture and history and by reading a major work from Spanish literature.

SPE – Speech

SPE 101  Oral Communication
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
SPE 101 stresses principles and practices of oral communication, especially speaking to inform. The course includes consideration of voice and articulation, conversation and discussion. Emphasis is on preparation and presentation of speeches.

SPE 103  Voice and Diction
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This course enhances, corrects and strengthens the voice and speech of the individual. Although intended for any student, it helps those in communications, broadcasting and acting. It can also be of help to those with accents.

THR – Theatre Arts

THR 105  Fundamentals of Ballet
2 lecture hours, 2 studio hours, 3 credits
THR 105 introduces students to vocabulary and technique of ballet movements with emphasis on body alignment and effective methods for gaining strength and flexibility necessary for proper ballet deportment. The course includes barre, centre floor and basic elements of classical ballet vocabulary.

THR 107  Fundamentals of Jazz Dance
2 lecture hours, 2 studio hours, 3 credits
THR 107 introduces students to a comprehensive style and technique rooted in traditional jazz dance and to a variety of movement concepts of contemporary jazz dance. The concepts and techniques covered in this class reflect the evolution of jazz dance in America, an evolution due in great part to various music, cultural and social dance influences throughout its history.

THR 109  Living Theatre
3 lecture hours, 3 credits
This course examines theatre from the perspective of those who create it. It addresses the many issues surrounding the ancient art of live theatre in an increasingly digital age, and analyzes the ways in which individual theatre artists create a production, and engages with the reasons why they do so. Students are encouraged to explore ways in which the craft of theatre can be relevant in other aspects of their lives.

THR 111  Acting Workshop I
2 lecture hours, 2 studio hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This course features instruction and practice in the development of characterization, styles of acting and refinement of vocal and physical control. In-class rehearsals and performances of selected works are conducted. Students may enroll for subsequent Acting Workshop classes.

THR 112  Acting Workshop II
2 lecture hours, 2 studio hours, 3 credits
Prerequisite: THR 111 with a minimum grade of “D-”
Building upon the skills addressed in Acting Workshop I, this course features an overview and advanced instruction and practice in the development of improvisation, monologues and scene studies and refinement of vocal and physical control. In-class recitation and performances of selected works are conducted.
Fairleigh Dickinson University

Rowan College of South Jersey has partnered with Fairleigh Dickinson University to make earning a bachelor's or master's degree faster and more convenient. Earn a degree from Fairleigh Dickinson — while attending convenient on-site classes at RCSJ.

**Earn a bachelor's or master's degree on the RCSJ campus:**

* Baccalaureate degrees
* Master's degree studies
* Evening and weekend classes
* Competitively priced, special on-site tuition

**Choose from more than 12 undergraduate and graduate programs in career-oriented fields:**

* Business & Technology (BAIS)
* Communication Studies (BA)
* Education (BA/MAT or MAT only)
* Educational Leadership (MA)
* English Language and Literature (BA)
* History (BA)
* Humanities (BA)
* Psychology (BA)
* Public Service Administration (BAIS)
* Reading Specialist (MA)
* Teacher of Students with Disabilities (Graduate Certificate)
3+1 Program — 300-level Courses

The 3+1 option allows students to attend RCSJ for three years at the RCSJ rate and complete their senior year at Rowan University, paying the Rowan University rate. This allows students to save on tuition and fees while earning their bachelor’s degree. This program follows Rowan University’s course curriculum with 300-level courses taught by RCSJ advanced degree faculty. Students will graduate with a Rowan University bachelor’s degree. Future internships and co-op opportunities are being developed to enhance work experience and career potential.

Eligible Programs

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<tr>
<th>Program</th>
<th>Eligibility</th>
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<tbody>
<tr>
<td>Exercise Science — Exercise Science (A.S.)</td>
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<tr>
<td>Law and Justice — Criminal Justice Option (A.S.)</td>
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<tr>
<td>Nursing — Nursing Generic Program (A.S.)</td>
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<tr>
<td>Psychology — Arts and Sciences: Psychology Option (A.A.)</td>
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<tr>
<td>Radio, Television &amp; Film — Arts and Sciences: Radio, Television &amp; Film Option (A.A.)</td>
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For more information, please visit RCSJ.edu/3plus1.

Third Year (Advanced Studies) Course Descriptions:

Course work for 3+1 students only.

Criminal Justice

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>CRJ 281</td>
<td>Criminal Justice Internship</td>
<td>1 hour</td>
<td>This course is for Criminal Justice majors with an overall GPA of 3.0 (or higher) who have passed a criminal history background check and have earned a minimum of 60 college credits (8 in Forensic Science and 21 in Criminal Justice and approved electives)</td>
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</tbody>
</table>

This internship is for Criminal Justice majors. It is designed to familiarize students with the philosophies and practices of criminal justice while serving as unpaid interns in host agencies. The internship will provide students the opportunity to interact with criminal justice professionals in a work environment. The purpose of the course is to facilitate student experience in the nexus between criminal justice theory and practice. Internships will be completed in one approved setting limited to federal and state criminal justice agencies.

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<tr>
<td>CRJ 301</td>
<td>Drugs and Crime in America</td>
<td>3 lecture hours</td>
<td>ENG 102 or equivalent</td>
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This course explores and analyzes the relationship between illegal drugs and crime and the relevant issues and ramifications including, but not limited to, national and international trafficking, control of the problem, legalization and explanations for drug use.

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<tr>
<td>CRJ 305</td>
<td>Counseling and Guidance of the Offender</td>
<td>3 lecture hours</td>
<td>ENG 102 or equivalent</td>
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This course is a survey of the basic principles and techniques of counseling of offenders, including interviewing, case conferences, case histories, individual and group counseling, classification procedures and team treatment participation.

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<tr>
<td>CRJ 308</td>
<td>Theories of Crime and Criminality</td>
<td>3 lecture hours</td>
<td>ENG 102 or equivalent</td>
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This course explores the extent of crime and delinquency in the United States and the full range of relevant theories of causation. The synthesis and application of appropriate theories to such concepts as race, social class, gangs, drugs, family, schools and neighborhoods is covered.

Nursing

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<tbody>
<tr>
<td>NUR 303</td>
<td>Comprehensive Health Assessment</td>
<td>3 lecture hours</td>
<td>Graduation from an accredited school of nursing, Registered Nurse license in good standing.</td>
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</tbody>
</table>

This course builds upon the Registered Nurse’s fundamental knowledge and skills of health assessment. In utilizing a systematic approach, the student will develop a holistic approach in assessing the patient across the lifespan. Upon completion, the student will show competency in obtaining a thorough health history and becoming efficient in the physical skills of inspection, palpation, percussion and auscultation. Differences between normal and abnormal findings will be explored and appropriate documentation of findings will be stressed. Students will also be exposed to the cultural differences in health and will incorporate evidence-based approaches to assessment.

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>NUR 305</td>
<td>Nursing Informatics</td>
<td>3 lecture hours</td>
<td>Graduation from an accredited school of nursing, Registered Nurse license in good standing.</td>
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This 300-level course reviews the information needs and information systems related to nursing practice. Students will experience the manner in which informatics supports all areas of practice, including education, clinical practice, administration and research.

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<tr>
<td>NUR 308</td>
<td>Topics in Healthcare Ethics</td>
<td>3 lecture hours</td>
<td>Graduation from an accredited school of nursing, Registered Nurse license in good standing.</td>
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</tbody>
</table>

This course examines moral dilemmas created or intensified by recent advances in medical technology and studies ways of analyzing those dilemmas. Discussion topics include: euthanasia and the right to die, abortion, behavior modification, allocation of scarce medical resources, in vitro fertilization, genetic screening and engineering and human experimentation. These moral dilemmas will be related to nursing.
Psychology

PSY 305  Psychology of Scientific Thinking
3 lecture hours, 3 credits
Prerequisite: PSY 101, Rowan 3+1 students ONLY

Students will develop an understanding of the methods of science and its relationship to the outside world. Critical thinking and an empirical approach to evaluating scientific claims will be emphasized. Students will be introduced to the psychological processes underlying the scientific method and the persistence of belief in pseudoscientific and non-scientific claims.

PSY 310  Psychology as a Profession and Practice
3 lecture hours, 3 credits
Prerequisite: PSY 101, Rowan 3+1 students ONLY

Students will be introduced to applied areas in psychology, gaining knowledge about how psychological information is used to impact people’s lives. The ways in which psychological knowledge are applied to understand individuals and the social world will be examined. Career paths in psychology and preparation for a career in psychology or other associated disciplines will be explored.

Radio, Television and Film (Communications)

COM 310  Television Production I
3 lecture hours, 3 credits
Prerequisites: COM 210, COM 212, COM 217 and COM 219

This course introduces students to the principles and techniques of television production. Students work in production teams within a professional television studio setting. Students gain experience in all phases of production, including conception of ideas, scripting, directing and operation of equipment to produce various types of programs. Programming includes newscasts and talk shows. Students also learn to edit 30-second commercials and PSAs.

COM 312  Film Production I
3 lecture hours, 3 credits
Prerequisites: COM 210, COM 212, COM 217 and COM 219

Film Production I introduces students to the principles and techniques of film style production. Students work in production teams to make a series of short films designed to familiarize them with film production techniques including camera operation, shot composition and editing. In addition, students gain experience applying basic cinematic narrative concepts.

COM 317  The Movie Industry I
3 lecture hours, 3 credits
Prerequisites: COM 210, COM 212, COM 217 and COM 219

This course introduces students to the language of the technical elements of the motion picture and to a method for analyzing the artwork created and the messages communicated by the motion picture. Students analyze the components of motion pictures including color, lighting, editing, scripting, directing and acting.

COM 319  Screenwriting I
3 lecture hours, 3 credits
Prerequisites: COM 210, COM 212, COM 217 and COM 219

This course covers the basic technical requirements for writing movie scripts and the problems of adapting material to screen and script analysis. By viewing contemporary movies and studying plotting, point-of-view, character creation and dialogue, students learn how a film script is put together and write an original script.

Wilmington University

Located in New Castle, Delaware, Wilmington University is a private, nonprofit institution that awards bachelor’s, master’s and doctoral degrees. The university prides itself on providing small, intimate learning environments and maintaining one of the lowest tuition rates in the region. RCSJ students have the option to remain on the Rowan College campus and complete their bachelor’s degree.

Wilmington University offers the following on the RCSJ Gloucester campus:

Bachelor of Science programs in

• Criminal Justice*
• Communication
• Human Resource Management
• Information Systems Management
• Marketing
• Media Design
• Nursing (RN to BSN)*
• Computer Science

Master’s degree in:

• Elementary & Secondary School Counseling

* Select classes only

Students must graduate from RCSJ with an associate degree, meet the academic requirements necessary for each program and maintain a 2.0 grade point average.

Students are required to complete a minimum of 30 credit hours of upper-level coursework at Wilmington University.