Gloucester Campus
2023-2024 Academic Catalog
Rowan College of South Jersey and Rowan University have formed an innovative, partnership to make higher education more affordable to South Jersey residents by providing a direct, cohesive route to a bachelor's degree with easy transfer credits. The Rowan University Center (RUC) assists students on their pathway from Rowan College to Rowan University by providing a variety of services, such as, advisement and application assistance, to students and alumni.

From their very first day of classes, Rowan College students are conditionally admitted to Rowan University with the understanding that all program prerequisite coursework and GPA requirements must be satisfied. Students pay the community college tuition and fee rates while attending RCSJ, saving them substantial time and money.

STUDENTS CAN CHOOSE FROM THE FOLLOWING PATHWAYS:

**3+1 PROGRAM**
Earn a four-year degree at a reduced price: less than $30,000 for a bachelor's degree. Students remain at Rowan College for an additional year to complete their junior level courses while paying RCSJ tuition and fees. Only available to select majors.

**ROWAN CHOICE**
Live on Rowan University’s campus and earn up to 60 credits through RCSJ. Courses are taught by RCSJ professors at both RCSJ and Rowan University. Available to all majors.

**2+2 PROGRAM**
The 2+2 pathway is a new initiative slightly different from a traditional transfer. Students interested in earning their bachelor's degree in one of these programs must start at RCSJ for the first two years. The last two years are taught by Rowan University faculty, but some classes will be held at RCSJ.

**TRADITIONAL TRANSFER**
Complete your associate degree at RCSJ and transfer to Rowan University for your bachelor's degree. Available to all majors. Select majors may complete their final two years online via Rowan Global.

Contact the Rowan University Center
Gloucester campus: 856-464-5232
Cumberland campus: 856-200-4719

For additional information visit:
RCSJ.edu/RU
Welcome to Rowan College of South Jersey

Rowan College of South Jersey (RCSJ) is a student-centered, student success-driven college ready to help you take the next step in your education and forge a unique path to the future of your choice. The College provides many opportunities for degree seeking students as well as professionals wanting to earn an industry-valued credential or pursue workforce training.

With one of the lowest tuition rates in New Jersey, RCSJ offers more than 100 in-demand and industry-informed degree, certificate, and workforce programs in two convenient locations - Gloucester and Cumberland counties. On both campuses, the College provides access to quality education, marketable credentials, experiential learning, and enhanced student experiences.

RCSJ provides a quality education at your convenience. Flexible sessions are offered as 5-, 7-, 10- and 15-week courses throughout the semester, on campus or online, to plan around your work and family obligations. RCSJ also supports you through free tutoring, advising, mental health services, and academic cohorts in addition to providing $1 million in scholarship opportunities, financial aid assistance, and convenient payment plans.

Embrace college life with athletics, clubs, organizations, honor societies, internships, creative activities, and networking opportunities all designed to help you find your fit in RCSJ’s college community. With over 50 student organizations, the 5-star ranked Phi Theta Kappa honor societies on both campuses, and 16 sports programs across two nationally and regionally ranked athletic teams, there is something for everyone.

RCSJ’s strong academic, industry, and community partnerships provide students exclusive benefits, support, and savings that other colleges can’t match. Our Flagship Partner, Rowan University, elevates the RCSJ experience to another level through the residential opportunity, Rowan Choice. Students pursuing a bachelor’s degree can take advantage of unique academic and tuition-saving programs like 3+1, 2+2 and Traditional Transfer. The Gloucester campus is proud to house the Rowan-Virtua School of Osteopathic Medicine and offers a new Pathway to Medicine program guaranteeing five seats in the medical program to RCSJ Biological Science students.

Our Premier partners, Inspira Health, Acenda Integrated Health, and Rastelli Foods, offer unique opportunities in healthcare, mental health and behavioral science, as well as entrepreneurship and food science. These partnerships benefit the South Jersey community through tuition employee discounts, scholarship opportunities, and employment pathway and retention.

I'm glad you joined us. We promise to provide unique pathways for you to transform knowledge into action, build a foundation for a successful career, and a life that is meaningful to you.

You've found your fit, now launch your future.

Frederick Keating, Ed.D.
President
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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 County Commissioners
Frank J. DiMarco, Director
Heather Simmons, Deputy Director
Lyman Barnes, Education Liaison
Nicholas DeSilvio
Denice DiCarlo
Jim Jefferson
Christopher Konawel, Jr.

Cumberland County
Board of County Commissioners
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Antonio Romero, Deputy Director
John Capizola, Jr.
Victoria Groetsch-Lods, Co-Education Liaison
Carol Musso
Donna Pearson
Joseph V. Sileo

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Lita M. Abele
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Reverend Dr. James A. Dunkins
Yolanda Garcia Balicki, Esq.
Dr. Warren S. Wallace
Douglas J. Wills, Esq.
Frederick Keating, Ed.D., ex officio

List as of September 7, 2023

A comprehensive guide to Rowan College of South Jersey policies and administrative procedures can be viewed at RCSJ.edu/Policies.

The Rowan College of South Jersey faculty and staff directory is available at RCSJ.edu/Personnel or can be found in the Student Handbook publication found at RCSJ.edu/Publications.

Information in the 2023-24 Rowan College of South Jersey Gloucester Academic Catalog is accurate at the date of publication in September 2023 and is subject to change.
Core Values

Rowan College of South Jersey respects the diversity of its student body and recognizes the worth and potential of each student. Therefore, the College affirms the following values:

Commitment to Students
Belief in the priority of providing the highest levels of learning, resources and support services to enhance intellectual, personal and social growth while focusing on the professional development of students.

Commitment to Excellence in Education
Belief in providing educational programs and student support services that combine academic rigor, up-to-date information, incorporation of the most effective strategies and close assessment of learning outcomes to achieve excellence in learning.

Contribution to Community
Recognition of the importance of enhancing the economic vitality and quality of life for all citizens in our community.

Commitment to Access and Diversity
Belief that the College will actively seek to create the highest levels of access to programs and services for all students who may benefit and that the College’s employees and students represent diversity of the community.

Quality Campus Environment
Recognition of the importance of providing a safe and pleasant work and learning environment characterized by integrity, clear communications, open exchange of ideas, involvement in decision making and respect for individuals.

Social Responsibility
Belief in providing educational, experiential and training opportunities for students and residents of the community that fosters an inclusive atmosphere of support and care for one another and other members of the community at large.

Civic Duty/Commitment
Recognition of the important roles that students, faculty and staff have in providing service to all citizens in our community.

Core Competencies

This comprehensive list reflects the core competencies that are essential for all RCSJ graduates; however, each program varies regarding competencies required for a specific degree.

Critical thinking is embedded in all courses, while teamwork and personal skills are embedded in many courses.

- Written and Oral Communication
  Students will communicate effectively in both speech and writing.
- Quantitative Knowledge and Skills
  Students will use appropriate mathematical and statistical concepts and operations to interpret data and to solve problems.
- Scientific Knowledge and Reasoning
  Students will use the scientific method of inquiry, through the acquisition of scientific knowledge.
- Technological Competency
  Students will use computer systems or other appropriate forms of technology to achieve educational and personal goals.
- Society and Human Behavior
  Students will use social science theories and concepts to analyze human behavior and social and political institutions and to act as responsible citizens.
- Humanistic Perspective
  Students will analyze works in the fields of art, history, music, or theater; literature; philosophy and/or religious studies; and/or will gain competence in the use of a foreign language.
- Historical Perspective
  Students will understand historical events and movements in World, Western, non-Western or American societies and assess their subsequent significance.
- Global and Cultural Awareness
  Students will understand the importance of a global perspective and culturally diverse peoples.
- Ethical Reasoning and Action
  Students will understand ethical issues and situations.
- Information Literacy
  Students will address an information need by locating, evaluating, and effectively using information.

— June 2020

— Fall 2018
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, 9355 – 113th St. N., #7709, Seminole, FL 33775, phone: 727-210-2350, email: mail@caahcep.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), 3390 Peachtree Road NE, Suite 1400, 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 0710, 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), 3030 Potomac Avenue, Suite 100, Alexandria, VA 22305-3085, 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 edoyle@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 0710, 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/rpp
- The Associate degree programs Business Administration, Accounting, Digital Marketing, and Human Resource Management, as well as the Certificate of Achievement programs Accounting, Business Software Tools, Digital Marketing, and Management are accredited by the Accreditation Council for Business Schools and Programs (ACBSP), 11520 West 119th Street, Overland Park, KS 66213, phone: (913) 339-9356, acbsp.org.

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-Gloucester Campus, Special Assistant to the President, Diversity and Equity, Title IX and Compliance at 856-415-2154 ajones@rcsj.edu; Nathaniel Alridge, Jr., J.D., Director, Diversity and Equity, Title IX, and Judicial Affairs-Cumberland Campus at 856-498-9948 or nalridge@rcsj.edu. For disabilities, contact Carol Weinhardt-Gloucester Campus, Director Department of Special Services, ADAAA/504 Officer at 856-415-2247 or cweinhar@rcsj.edu Meredith Vicente-Cumberland Campus, Senior Director, Disability Support Services 856-200-4688 mvicent1@rcsj.edu.
Financial Services Information

Tuition and fees are established by the Rowan College of South Jersey Board of Trustees, which reserves the right to change any and all fees and tuition in accordance with the Higher Education Restructuring Act. Tuition and fees must be paid in accordance with the payment schedules established for each semester. Information is effective as of Fall 2023.

<table>
<thead>
<tr>
<th>TUITION</th>
<th>ADDITIONAL FEES</th>
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<tbody>
<tr>
<td>Gloucester and Cumberland County residents</td>
<td>Graduation Petition Fee 65.00</td>
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<tr>
<td>Out-of-county residents¹</td>
<td>Payment Plan Fee 40.00</td>
</tr>
<tr>
<td>High School Option (HSOP)</td>
<td>Transcripts (processing options)</td>
</tr>
<tr>
<td>High School Dual Option</td>
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<tr>
<td>Partnership Agreements</td>
<td>Replacement Diploma Fee 35.00</td>
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<tr>
<td>Senior Citizen Discount</td>
<td>LEXIS-NEXIS Annual Fee²</td>
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<tr>
<td>Out-of-County Veterans</td>
<td>CCMA, Phlebotomy, EKG and Medical Assistant Fees³</td>
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<tr>
<td></td>
<td>Selective Admissions Entrance Exam</td>
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<td></td>
<td>Selective Admissions Late Registration/Reschedule Fee 15.00</td>
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<tr>
<td></td>
<td>Other Standardized Test Fees</td>
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<tr>
<td></td>
<td>Accuplacer Challenge Fee 10.00 per section</td>
</tr>
<tr>
<td></td>
<td>Stop &amp;/or Reissue Check Fee</td>
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<tr>
<td></td>
<td>Returned Check Fee</td>
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<tr>
<td></td>
<td>Reissue NMT Badge</td>
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<td></td>
<td>ID card Replacement Fee 10.00</td>
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<tr>
<td></td>
<td>Liability Insurance (Nursing and Health Professions Students only)</td>
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<td></td>
<td>Portfolio Assessment for Prior Learning 125.00</td>
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<td></td>
<td>Nurse Entrance Test (NET) Fee⁴</td>
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<td></td>
<td>Nursing and PTA HESI Admission Assessment Exam Fee⁵</td>
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<td>Nursing HESI Exit Exam (NUR 220) Fee⁶</td>
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<td></td>
<td>Test Administration Fee Examination Fee 25.00 per exam</td>
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<td></td>
<td>Library Membership Fee - Non-student County Residents** 10.00 per annum</td>
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<tr>
<th>REQUIRED FEES</th>
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<tr>
<td>General Service Fee</td>
<td>$42.00 per credit</td>
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<td>Capital Construction Fee</td>
<td>$2.00 per credit</td>
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<td>Admin System Fee</td>
<td>$2.00 per credit</td>
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<tr>
<td>Laptop</td>
<td>$600-$800</td>
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<table>
<thead>
<tr>
<th>PROGRAM FEES</th>
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<tbody>
<tr>
<td>For students enrolled in Nursing, Allied Health and Health Professions</td>
<td>$1,750 Fee is applied per semester</td>
</tr>
<tr>
<td>For students enrolled in Physical Therapy Assistant and Automotive Technology</td>
<td>$1,250 Fee is applied beginning the second academic term</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>COURSE FEES</th>
<th></th>
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<tbody>
<tr>
<td>Fees are applied to courses according to the following categories. Please check the course description section to see which fees apply to our selected course(s).</td>
<td></td>
</tr>
<tr>
<td>A. Computer Laboratory</td>
<td>25.00</td>
</tr>
<tr>
<td>B. Art (some courses), Civil Engineering, Drafting, Computer Graphic Arts</td>
<td>40.00¹</td>
</tr>
<tr>
<td>C. Automotive Technology, Science</td>
<td>75.00</td>
</tr>
<tr>
<td>D. Materials Fee - BIO215, BIO221</td>
<td>150.00</td>
</tr>
<tr>
<td>F. First Day/Digital Books</td>
<td>43.75-129.00² per course</td>
</tr>
<tr>
<td>G. Lab Fee – 1 Contact</td>
<td>120.00³</td>
</tr>
<tr>
<td>H. Lab Fee – 2 Contacts</td>
<td>240.00³</td>
</tr>
<tr>
<td>I. Lab Fee – 3 Contacts</td>
<td>360.00³</td>
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<tr>
<td>J. DMS 106, 210, 221</td>
<td>50.00³</td>
</tr>
<tr>
<td>K. Curriculum Review Fee</td>
<td>425.00</td>
</tr>
<tr>
<td>O. Online Technology Fee</td>
<td>75.00</td>
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<tr>
<td>Q. QuickBooks - BUS 207</td>
<td>150.00³</td>
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<tr>
<td>W. BIO 212 (Wetlands Institute)</td>
<td>250.00³</td>
</tr>
<tr>
<td>Y. Honors Research - BIO 230</td>
<td>200.00³</td>
</tr>
</tbody>
</table>

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. The actual rate is set by the Council of County Colleges.
³ 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.
⁴ The NET is NOT required for applicants to Rowan College’s Nursing program. Rowan College is a NET testing site for other Nursing programs.
⁵ County borrowers from communities not participating in the GOLD System.
⁶ These course fees are in accordance with programs listed in the Academic Catalog.

(Reference Board Policy 6011)
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.
Internship Career Connections

The Internship Career Connections Program at Rowan College of South Jersey exists because of the partnership between RCSJ and the Business community. This unique, hands-on career awareness and exploration experience enhances the academic portion of a student's degree. The Internship Career Connections Program requires a student to take a 3-credit course, which provides academic instruction and preparation and includes 150 hours of work experience on the job with a participating employer. Selection for participation in the program is a competitive process; therefore, students should register for the experience only after they have been selected.

The Internship Career Connections program enables students to:
- Earn three college credits while working in a job related to their career or educational goals
- Acquire experience in their career prior to graduation
- Enhance their potential to advance within their career
- Position themselves for future career opportunities with participating employers

The Internship Career Connections program enables employers to:
- Partner with Rowan College to implement a workforce development program that will speak to their human resource needs
- Develop a pool of highly skilled, well-trained applicants for future job openings
- Hire highly-motivated students whose career objectives are directly related to the job

To qualify for the program students must:
- Complete at least 24 credits
- Earn a minimum of a 2.000 cumulative grade point average (GPA)
- Be available to work a minimum of 10 hours per week
- Complete an application by the posted due dates and register for the 3-credit course when selected
- Be 18 years of age or older
- Please note that selection for the Internship Career Connections Program is a competitive process. Application does not guarantee a position in the program.

Application Procedures
Applications for students and employers may be found on the RCSJ website at RCSJ.edu/ICC, at the Internship Career Connections Program Office, located on the Gloucester Campus, College Center 212 (856-415-2168), or by request by emailing icc@rcsj.edu.

A Better Bachelor’s Degree Option
Save even more when you earn your bachelor’s degree through the Rowan “3+1” program. Complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree in select majors for less than $30,000!

- Applied Professional Communications (GC)
- Computing & Informatics (CC)
- Data Analytics (GC)
- Emergency Management
- Fitness Management (GC)
- Global Business & Leadership
- Inclusive Education (GC)
- Law & Justice Studies
- Nursing
- Psychology
- Radio/Television/Film

(GC) Gloucester campus only  (CC) Cumberland campus only
Prior Learning Assessment

Where Experience and What YOU Know Earn College Credit

Save time and money by applying your prior learning towards a college degree. RCSJ offers more than 100 degree and certificate programs.

Earn college credit for

- Non-credit coursework
- Hands-on work knowledge
- Corporate experience
- Military training

"It was always a thought in my mind — a dream — that one day I’d be able to go to college and earn my degree. The fact that I’m doing it now, well, I kind of pinch myself sometimes. I have a goal that I’m working towards and RCSJ is making it possible."

Brian Britton, 2022 RCSJ graduate, Surveying Engineering Technologies

For more information, contact
Danielle Zimecki-Fennimore, Ed.D.
dzimecki@rcsj.edu.
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, live 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.

Live Online — Live Online courses will never meet on campus but have regularly scheduled class times during which students and their instructor will meet in real-time via Zoom and students are provided with multiple options for class participation.

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.

For more information about these programs, contact the respective Academic Division.

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?”

Fully online certificates at RCSJ Gloucester:
- Accounting
- Business Software Tools (7 week blocks)
- Digital Marketing (7 week blocks)
- Entrepreneurship
- Management (7 week blocks)
- Technology Help Desk Support (7 week blocks)
- Website Development

Fully online programs at RCSJ Gloucester:
- A.A. Arts & Sciences
- A.A. Arts & Sciences: History Option
- A.A. Arts & Sciences: Philosophy Option
- A.A. Arts & Sciences: Sociology Option
- A.A. Arts & Sciences: Communication Option
- Accounting
- A.S. Arts & Sciences
- Biology
- Business Administration
- Business Administration Human Resource Management
- Chemistry
- Chemistry: Pre-PharmD Option
- Computer Information Systems
- Digital Marketing
- Entrepreneurship
- Psychology
- Technical Studies

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>Homework Assignments</th>
<th>Open Computer Labs in Library</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Academic Support Center in the Learning Commons (LC)</td>
</tr>
<tr>
<td>Internet Access</td>
<td>Open Computer Labs in Library</td>
</tr>
<tr>
<td></td>
<td>LC</td>
</tr>
<tr>
<td>Placement/Makeup Testing</td>
<td>LC</td>
</tr>
<tr>
<td></td>
<td>Academic Testing Center</td>
</tr>
<tr>
<td>Internship and Career Planning</td>
<td>College Center, second floor Room 212</td>
</tr>
<tr>
<td>eLearning/Distance Education</td>
<td>Open Computer Labs in Library</td>
</tr>
<tr>
<td></td>
<td>LC</td>
</tr>
<tr>
<td>Report Writing</td>
<td>Open Computer Labs in Library</td>
</tr>
<tr>
<td></td>
<td>LC</td>
</tr>
<tr>
<td>Research</td>
<td>Library</td>
</tr>
<tr>
<td>Academic Support Center</td>
<td>LC (Room 603)</td>
</tr>
<tr>
<td>Computer Graphic Arts</td>
<td>Open Computer Labs in Library</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 that 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.

Certificates

CERTIFICATE PROGRAMS (CERT)
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.

CERTIFICATE OF ACHIEVEMENT PROGRAMS (COA)
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 from available in the Advisement Office.

COURSE CATEGORY

<table>
<thead>
<tr>
<th>COURSE CATEGORY</th>
<th>A.A.</th>
<th>A.S.*</th>
<th>A.A.S.*</th>
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<tr>
<td>General Education**</td>
<td>33</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>Electives</td>
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<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Total</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
</tbody>
</table>

* Specialized degree programs such as Nursing 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 97

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

General Education Electives

See “General Education Electives” on page 116 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.

Source: New Jersey Administrative Code
Division of
Behavioral Sciences and Law & Social Justice

Prepare to guide individuals and support communities through an interdisciplinary educational approach focused on human psychology, analytical reasoning, communication and social and ethical issues.

RCSJ.edu/Behavioral

Find Your Program
From Child Advocacy to Criminal Justice, Psychology to Emergency Management, Social Science to Substance Counseling — Rowan College of South Jersey offers the education and training you need to unravel the mysteries of human behavior, usher individuals towards rehabilitation and help safeguard our communities. The Division of Behavioral Sciences and Law & Social Justice offers students exclusive benefits and support through its premier partnership with Acenda Integrated Health.

Find Your Opportunity
RCSJ offers access to one-of-a-kind degree and certificate programs, internship experiences and personalized advisement to prepare students for profitable careers in local, regional and global economies. Whether you attend classes on the Cumberland campus, the Gloucester campus or online, you are guaranteed a quality education at one of the lowest tuition rates in New Jersey.

Choose from 4 academic delivery styles: In-Person Live Online Hybrid Traditional Online
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Arts and Sciences: Pre-Law Option, A.A.

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- MAT 101 Concepts of Mathematics 3
- HIS 101 History of Western Civilization I 3
- PLG 101 Introduction to Legal Studies 3
- SPE 101 Oral Communication 3
  15

Spring Semester
- 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
  15

SECOND YEAR — Fall Semester
- ENG ___ English General Education elective 3
- SOC 101 Principles of Sociology 3
- ___ ___ Modern Language elective2 3
- ___ ___ Lab Science elective1 4
- POL 101 American Federal Government or
  POL 103 Introduction to Political Science 3
  16

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

TOTAL MINIMUM CREDITS: 60

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
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.

Criminal Justice, A.S.

This is a 3+1 option program with Rowan University.

[AS-CRJ; CIP Code 43.0103]

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

Graduates of Gloucester County Police Academy may be eligible for 13 college credits toward this degree.

FIRST YEAR — Fall Semester

- ENG 101 English Composition I 3
- MAT 101 Concepts of Mathematics 3
- PSY 101 General Psychology 3
- CRJ 101 Introduction to Criminal Justice 3
- SPE 101 Oral Communications 3

Total: 15

Spring Semester

- ENG 102 English Composition II 3
- MAT 103 Statistics 3
- SOC 101 Principles of Sociology or SOC 102 Sociology of the Family or SOC 104 Social Problems* 3
- CRJ 205 The Administration of Justice 3
- CRJ 201 Criminal Law 3

Total: 15

SECOND YEAR — Fall Semester

- PHI 104 Ethics 3
- PHY 241 Forensic Science I 4
- CRJ 215 Introduction to Criminology 3
- ___ ___ Criminal Justice elective ** 3
- HPE 105 Healthcare Provider Emergency Response with BLS Certification 1

Total: 14

Spring Semester

- ___ ___ Humanities elective *** 3
- SOC 220 Sociology of the Juvenile Delinquency 3
- PHY 242 Forensic Science II 4
- CRJ 250 Constitutional Issues in Criminal Justice 3
- ___ ___ Criminal Justice elective **** 3

Total: 16

TOTAL MINIMUM CREDITS: 60

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 SPA 101 or SPA 102 recommended. SPA 120 Spanish for Law Enforcement is not a general education elective.

Program Electives

LEN 102, LEN 108, LEN 210, LEN 221, LEN 227, LEN 234, CRJ 238, CRJ 270, CRJ 225, CRJ 230, CRJ 261, CRJ 262

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
After completing the Criminal Justice A. S., students may choose to continue with the bachelor’s degree pathway at RCSJ.

The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

### Law & Justice Studies 3+1

#### THIRD Year — Fall Semester
- CRJ 301 Drugs and Crime in America 3
- CRJ 305 Counseling and Guidance of the Offender 3
- ART 101 Art Appreciation or MUS 101 Music Appreciation 3
- ENG 230 Major American Writers 3
- LEN 221 Principles of Criminal Investigation 3

#### Spring Semester
- CRJ 308 Theories of Crime and Criminality 3
- POL 101 American Federal Government 3
- Free Elective 3
- Free Elective 3
- CRJ 281 or Free Elective 3

**Program Electives**
LEN 102, LEN 108, LEN 210, LEN 221, LEN 227, LEN 234, CRJ 238, CRJ 270, CRJ 225, CRJ 230, CRJ 261, CRJ 262

#### FOURTH YEAR — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 team members at both institutions work closely with students to guide them through the process.

### Industry & Employment Opportunities

**Bachelor’s**
*Investigative Analyst, Criminal Justice Teacher, Fraud Investigator*

**Master’s**
*College Professor*

**Questions?**
About 3+1: Alescia Kennon, akennon1@rcsj.edu
Criminal Justice — Emergency Management, A.S.

This is a 3+1 option program with Rowan University.

FIRST YEAR — Fall Semester
- ENG 101 English Composition I or ENG 101E Enhanced English Composition I 3
- MAT 101 Concepts of Mathematics 3
- PSY 101 General Psychology 3
- EMG 101 Introduction to Emergency Management and Homeland Security 3
- SPE 101 Oral Communication 3

Spring Semester
- ENG 102 English Composition II 3
- MAT 103 Statistics 3
- SOC 104 Social Problems 3
- EMG 105 Planning for Emergencies 3
- POL 101 American Federal Government 3

SECOND YEAR — Fall Semester
- PHY 241 Forensic Science I 4
- LEN 221 Principles of Criminal Investigation 3
- EMG 201 Incident Command: Theory and Practice 3
- HPE 105 Healthcare Provider Emergency Response with BLS Certification 1
- LEN 234 Introduction to Security 3

Spring Semester
- GEO 115 Introduction to Geographic Information Systems 3
- PHI 104 Ethics 3
- PHY242 Forensics II 4
- CRJ 215 Introduction to Criminology 3
- EMG 205 Global Catastrophes 3

TOTAL MINIMUM CREDITS 60

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:
- Explain Crime and Criminological Theories
- Explain Crime Sources, Trends, and Outcomes
- Demonstrate Current Methods Used for Evidence Collection and Analysis
- Articulate Criminological Theories
- Demonstrate the need for an organized approach to the management of an emergency incident

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.
After completing the Business Administration A. S., students may choose to continue with the bachelor’s degree pathway at RCSJ. The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

Disaster Preparedness & Emergency Management

THIRD Year — Fall Semester
- CRJ 301 Drugs and Crime in America 3
- CRJ 305 Counseling and Guidance of the Offender 3
- ART 101 Art Appreciation or MUS 101 Music Appreciation 3
- ENG 230 Major American Writers 3
- LEN 221 Principles of Criminal Investigation 3

Spring Semester
- CRJ 308 Theories of Crime and Criminality 3
- POL 101 American Federal Government 3
- Free Elective 3
- Free Elective 3
- CRJ 281 or Free Elective 3

15

Program Electives
LEN 102, LEN 108, LEN 210, LEN 221, LEN 227, LEN 234, CRJ 238, CRJ 270, CRJ 225, CRJ 230, CRJ 261, CRJ 262

FOURTH YEAR — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 team members at both institutions work closely with students to guide them through the process.

Questions?
About 3+1: Alescia Kennon, akennon1@rcsj.edu
RCSJ.edu/3plus1
Criminal Justice — Emergency Management, CERT

FIRST YEAR — Fall Semester
- EMG 101 Introduction to Emergency Management and Homeland Security 3
- EMG 201 Incident Command: Theory and Practice 3
- ENG 101 English Composition I or ENG 101E Enhanced English Composition I 3
- PHY 241 Forensic Science I 4
- LEN 234 Introduction to Security 3

Total Credits 16

Spring Semester
- GEO 115 Introduction to Geographic Information Systems 3
- PHY 242 Forensics II 4
- EMG 105 Planning for Emergencies 3
- EMG 205 Global Catastrophes 3
- SPE 101 Oral Communication 3
- HPE 105 Healthcare Provider Emergency Response with BLS Certification 1

Total Credits 17

Total Credits 33
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.

Law Enforcement, A.A.S.

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- CRJ 101 Introduction to Criminal Justice 3
- SOC 101 Principles of Sociology or
  SOC 102 Sociology of the Family or
  SOC 104 Social Problems 3
- PSY 101 General Psychology 3
- SPE 101 Oral Communication 3
  Total 15

Spring Semester
- ENG 102 English Composition II 3
- LEN 108 Police Supervision and Personnel Management 3
- LEN 102 Police Organization and Administration 3
- CRJ 201 Criminal Law 3
- CRJ 205 Administration of Justice 3
  Total 15

SECOND YEAR — Fall Semester
- PHY 241 Forensic Science I 4
- CRJ 215 Introduction to Criminology 3
- LEN 221 Principles of Criminal Investigation 3
- ___ ___ Law Enforcement elective¹ 3
- MAT 101 Concepts of Mathematics 3
  Total 16

Spring Semester
- PHY 242 Forensic Science II 4
- LEN 210 Contemporary Issues in Law Enforcement 3
- LEN 227 Introduction to Corrections 3
- SOC 220 Sociology of Juvenile Delinquency 3
- HPE 105 Healthcare Provider Emergency Response with BLS Certification 1
  14

TOTAL MINIMUM CREDITS: 60

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
LEN 234 Introduction to Security
CRJ 238 Crime on the Internet
CRJ 250 Constitutional Issues in Criminal Justice
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
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. Using available elective credits, students will focus on Psychology 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 psychology

Program Contact
Audreen Pittman, Advisor, apittman@rcsj.edu

Psychology, A.A.

This is a 3+1 option program with Rowan University.

FIRST YEAR — Fall Semester

- ENG 101 English Composition I 3
- MAT ___ Mathematics elective1 3-4
- PSY ___ General Psychology 3
- ART 101 Art Appreciation I or MUS 101 Music Appreciation I 3
- HIS ___ History elective3 3

Spring Semester

- ENG 102 English Composition II 3
- MAT ___ Mathematics elective1 3-4
- PSY 211 Psychology of Human Development 3
- HIS ___ History elective3 3
- HPE ___ Health and Physical Education elective 1-3
- PSY 212 Psychology of the Adolescent or PSY 213 Child Psychology 3

SECOND YEAR — Fall Semester

- ___ ___ Lab Science elective1 4
- ENG ___ English Literature elective1,4 3
- SOC 101 Principles of Sociology 3
- PSY ___ Program elective — Psychology2 3
- PSY ___ Program elective — Psychology2 3

Spring Semester

- SPE 101 Oral Communication 3
- ___ ___ Lab Science elective1 4
- PHI 104 Ethics 3
- PSY ___ Program elective — Psychology2 3

TOTAL MINIMUM CREDITS: 60

Program Electives2
PSY 200 Understanding Addictive Behavior
PSY 203 Educational Psychology
PSY 206 Psychopharmacology
PSY 213 Child Psychology
PSY 215 Psychology of Aging
PSY 230 Abnormal Psychology
PSY 231 Abuse and Violence in the Family
PSY 240 Social Psychology

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
After completing the Psychology, A.A, students may choose to continue with the bachelor’s degree pathway at RCSJ.

The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

Psychology

THIRD Year — Fall Semester
- PSY 305 Psychology of Scientific Thinking 3
- PSY 306 Statistics in Psychology 3
- PSY 240 Social Psychology 3
- PHI 110 Religions of the World 3
- Free Elective 3
Total: 15

Spring Semester
- PSY 310 Psychology as a Profession and Practice 3
- PSY 315 Research Methods in Psychology 3
- PSY 230 Abnormal Psychology 3
- Free Elective 3
- Free Elective 3
Total: 15

Program Electives
- PSY 200 Understanding Addictive Behavior
- PSY 206 Psychopharmacology
- PSY 215 Psychology of Aging
- PSY 231 Abuse and Violence in the Family
- PSY 203 Educational Psychology
- PSY 213 Child Psychology
- PSY 230 Abnormal Psychology
- PSY 240 Social Psychology

FOURTH YEAR — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 team members at both institutions work closely with students to guide them through the process.

Questions? About 3+1: Alescia Kennon, akennon1@rcsj.edu
Paralegal, A.A.S.

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

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
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<tr>
<td>ENG 101 English Composition I</td>
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<tr>
<td>MAT ___ Mathematics elective</td>
<td>3</td>
</tr>
<tr>
<td>CIS 102 Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td>PLG 101 Introduction to Legal Studies</td>
<td>3</td>
</tr>
<tr>
<td>PLG 125 Business Organizations for Paralegals</td>
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</tbody>
</table>

| Total                                      | 16      |

Spring Semester
- ENG 102 English Composition II  
- PLG 102 Litigation and Civil Procedure  
- POL 102 American State and Local Government  
- CIS 120 Excel Spreadsheets  
- PLG 103 Legal Research and Writing  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 102 English Composition II</td>
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<tr>
<td>PLG 102 Litigation and Civil Procedure</td>
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<tr>
<td>POL 102 American State and Local Government</td>
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<tr>
<td>CIS 120 Excel Spreadsheets</td>
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<tr>
<td>PLG 103 Legal Research and Writing</td>
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</table>

| Total                                      | 16      |

SECOND YEAR – Fall Semester
- PLG 104 Torts  
- PLG 212 Paralegal Skills and Office Practices  
- PLG ___ Elective²  
- PLG ___ Elective  
- SOC ___ Social Science elective or  
  PHY 241 Forensic Science I or  
  ___ ___ Humanities elective  

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PLG 104 Torts</td>
<td>3</td>
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<tr>
<td>PLG 212 Paralegal Skills and Office Practices</td>
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<tr>
<td>PLG ___ Elective²</td>
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</tbody>
</table>
| SOC ___ Social Science elective or  
  PHY 241 Forensic Science I or  
  ___ ___ Humanities elective              | 3–4     |

| Total                                      | 15–16   |

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE ___ Health and Physical Education elective</td>
<td>1–3</td>
</tr>
<tr>
<td>PLG 209 Legal Assistant Practicum</td>
<td>3</td>
</tr>
<tr>
<td>PLG 201 Criminal Law and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>PLG 204 Technology in the Law Firm</td>
<td>3</td>
</tr>
<tr>
<td>PLG 205 Wills, Trusts and Estate Planning</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Humanities elective³</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total                                      | 16–18   |

TOTAL MINIMUM CREDITS: 66

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
Paralegal, CERT

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 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.

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

TOTAL CREDITS: 34

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Social Service, A.S.

[AS-SSER; CIP Code 44.0701]

Associate in Arts (A.S.) — Transfer

This program allows students to tap into their natural ability to interact with others, and that capacity is refined into a valuable skill with rewarding professional opportunities. Students receive the practical and theoretical education necessary for success, professionally or at a four-year college.

Program Learning Outcome

Students who have completed the program will be able to:

- Demonstrate a knowledge and acceptance of social work values and ethics.
- Describe the social workers’ role within the social service field.
- Implement a multidisciplinary approach to problem solving intervention.
- Locate, retrieve and critically evaluate information and information sources related to the profession.

FIRST YEAR — Fall Semester

- CIS 102 Introduction to Computers 4
- ENG 101 English Composition I 3
- HIS 205 World History I OR
  HIS 206 World History II 3
- SOC 101 Principles of Sociology 3
- Humanities General Education Elective** 3

16

Spring Semester

- ENG 102 English Composition II 3
- MAT 103 Statistics 3
- PSY 101 General Psychology 3
- SOC 104 Social Problems 3
- SPE 101 Oral Communication 3

15

SECOND YEAR — Fall Semester

- BIO 107 Human Biology 4
- POL 120 Public Administration 3
- SOC 238 Social Minorities & Intergroup Relations 3
- SOC 240 Human Behavior in the Social Environment I 3
- SOC 250 Social Service Fieldwork I 3

16

Spring Semester

- SOC 235 Social Psychological Counseling 3
- SOC 241 Human Behavior in the Social Environment II 3
- SOC 160 Introduction to Social Work 3
- SOC 251 Social Service Fieldwork II 3
- Social Service Program Elective** OR
- HPE 105 Healthcare Provider Emergency Response with BLS Certification 1-3

13-15

TOTAL MINIMUM CREDITS: 60

Program Electives

- PSY 200 Understanding Addictive Behaviors
- PSY 230 Abnormal Psychology
- SOC 227 Introduction to Gerontology
- SOC 216 Death & Dying
- SOC 102 Sociology of the Family

**Foreign Language Recommended
Division of Business Studies

Prepare to succeed in today's global marketplace with essential skills that include leadership, critical thinking, effective communication, data analysis and digital marketing.

RCSJ.edu/Business

Choose from 4 academic delivery styles: In-Person, Live Online, Hybrid, Traditional Online

Find Your Program

From Accounting to Digital Marketing, Business Management to Computer Information Systems, Entrepreneurship to Game and Interactive Design — Rowan College of South Jersey offers the perfect portfolio of credentials, hands-on experience and industry networking to impress at any interview. The Division of Business Studies is home to award-winning associate degree programs, the Alpha Beta Gamma National Business Honor Society and New Jersey's only online Human Resources associate degree program.

Find Your Opportunity

RCSJ’s Division of Business Studies provides access to globally accredited degree programs, specialized certificates, internship experiences and personalized advisement to prepare students for profitable careers in local, regional and global economies. Whether you attend classes on the Cumberland campus, the Gloucester campus or online, you are guaranteed a quality education at one of the lowest tuition rates in New Jersey.
Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll
and complete the interest form.

BUSINESS STUDIES DIVISION

Accounting, A.A.S.

FIRST YEAR — Fall Semester
- BUS 101 Introduction to Business 3
- BUS 102 Accounting I 4
- CIS 102 Introduction to Computers 4
- ENG 101 English Composition I 3
- MAT 105 Intermediate Algebra 4

18

Spring Semester
- BUS 103 Accounting II 4
- CIS 120 Spreadsheets – EXCEL 4
- ENG 102 English Composition II 3
- MAT 103 Statistics 3
- COM 104 Business Communications 3

17

SECOND YEAR — Fall Semester
- BUS 104 Personal and Professional Branding or HPE ___ Health and Physical Education elective 1–3
- BUS 106 Managerial Accounting 3
- BUS 107 Business Law I 3
- BUS 206 Federal Income Taxes 3
- ECO Economics elective 3

13–15

Spring Semester
- BUS 108 Business Law II 3
- BUS 207 Accounting Information Systems 3
- CIS 207 Management Information Systems 3
- CEP 211 Internship Career Connections 3

12

TOTAL MINIMUM CREDITS: 60

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll
and complete the interest form.
Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.
Business Administration, A.S.

This is a 3+1 option program with Rowan University.

FIRST YEAR — 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 — Fall Semester
- MAT 103 Statistics 3
- BUS 231 Principles of Management1 or PSY 101 General Psychology or SOC 101 Principles of Sociology or BUS 106 Managerial Accounting 3
- 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 _______ General Education elective 4
- ECO 102 Principles of Economics II 3
- BUS 108 Business Law II 3
- _______ Lab Science elective 4
- _______ 17

TOTAL CREDITS: 60

1 3+1 students should take PSY101. If transferring to Rowan University, choose PSY 101 or SOC 201. If transferring to Rutgers–Camden, choose BUS 106.

2 3+1 students and those planning to major in Management Information Systems at Rowan should choose CIS 110.

This program is also offered fully online. Participants in this program will be enrolled as a cohort to encourage support and collaboration. This means that all students in the cohort will be scheduled together in 5- or 7-week courses for the duration of the program. Typically, students will take two courses within each 7-week block. In an average semester, all students will have completed at least 12 credits. Courses in the Fall and Spring Semester will be taught in 7-week blocks. Courses in the Winter and Summer Semesters will be taught in 5-week blocks.

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
After completing the Business Administration A. S., students may choose to continue with the bachelor’s degree pathway at RCSJ.

The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

Business Administration: Global Business/Leadership 3+1

THIRD YEAR — Fall Semester
- BUS 310 Business Logistics 3
- BUS 300 Applied Organizational Behavior 3
- World Language 101 Level Elective 3
- International Course Elective 3
- Free Elective 3

Spring Semester
- BUS 304 Issues in Business: Directed Research 3
- BUS 308 Applied Human Resource Management II 3
- CEP 211 Internship Career Connections 3
- World Language 102 Level Elective 3
- ENG ___ Literature Course Elective 3

15

FOURTH YEAR — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 team members at both institutions work closely with students to guide them through the process.

Industry & Employment Opportunities

Bachelor’s
Business Analyst, Disaster Recovery Mitigation Analyst, Data Analyst — Business Intelligence

Master’s
Financial Data Analyst, Data Scientist

Questions?
About 3+1: Alescia Kennon, akennon1@rcsj.edu
About the program, Danielle Morganti, Associate Professor, dmorganti@rcsj.edu

RCSJ.edu/3plus1
After completing the Business Administration A. S., students may choose to continue with the bachelor’s degree pathway at RCSJ.

The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

Data Analytics 3+1

THIRD YEAR — Fall Semester
- CSC 106 Introduction to Data Science 3
- ___ ___ Elective Artistic Literacy 3
- CIS 200 Principles of Information Security 3
- CIS 300 Applied Database Technologies 3
- ___ ___ Free Elective (if CIS 110 not completed in A.S.) 3

Spring Semester
- CSC 225 Programming in R 2
- CSC 205 Programming in C++ 4
- DATA 301 Research Methods & Ethical Issues in Data Analysis 3
- MAT 203 Statistics II 3
- ___ ___ Elective Global Literacy 3

FOURTH YEAR — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 team members at both institutions work closely with students to guide them through the process.

Bachelor’s
- Business Analyst, Disaster Recovery Mitigation Analyst,
- Data Analyst – Business Intelligence

Master’s
- Financial Data Analyst, Data Scientist

Questions?

About 3+1: Alescia Kennon, akennon1@rcsj.edu
About the program.
Erin Bethusiem, Instructor I, ebethus1@rcsj.edu

RCSJ.edu/3plus1
BUSINESS STUDIES DIVISION

Business Software Tools, COA

[COA-CABT; CIP Code 11.0201]

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.

Program Contact
Irena Skot, Assistant Professor
Coordinator, Computer Information Systems
iskot@rcsj.edu

- CIS 102 Introduction to Computers 4
- CIS 120 Spreadsheets – EXCEL 4
- CIS 210 Relational Databases 4
- BUS 207 Accounting Information Systems or CIS ___ CIS elective 3
- BUS 104 Personal and Professional Branding 1

TOTAL CREDITS: 16

This certificate of achievement stacks into the Computer Information Systems, A.S. program.

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.

[BUSINESS STUDIES DIVISION]

Computer Graphic Arts: Game/Interactive Design, A.A.S.

[AAAS-CGA-GID; CIP Code 11.0803]

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 Contact

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

FIRST YEAR — Fall Semester

- CGA 103 Design, Color and Type 3
- CGA 115 Foundations of Computer Graphic Arts 3
- ART 131 Introduction to Digital Photography 3
- ENG 101 English Composition I 3
- MAT 101 Concepts of Mathematics 3

15

Spring Semester

- CGA 118 Introduction to Animation 3
- CGA 130 Video and Audio Editing 3
- CGA 120 Introduction to Electronic Publishing and Typography 3
- ENG 102 English Composition II 3
- ___ ___ General Education elective 3

15

SECOND YEAR — Fall Semester

- CGA 212 Screen Graphics 3
- CGA 215 Electronic Illustration I 3
- CGA 217 Electronic Image Processing 3
- ___ ___ Social Science elective 3
- COM 104 Business Communications or CEP 211 Internship Career Connections 3

15

Spring Semester

- ART 231 Intermediate Digital Photography 3
- CGA 219 Web Design 3
- CGA 218 Game and Interactive Authoring 3
- ___ ___ General Education elective 3
- ___ ___ General Education elective 3

15

TOTAL CREDITS: 60

Program Notes

Computer Graphic Arts is an academic program that requires students to complete assignments beyond class time. The Computer Graphic Arts program requires students to have a computer at home with specific technology requirements, which will allow students to run the Adobe Creative Cloud Software Suite. For the specific technical requirements for the computer, please see rcsj.edu/laptop. In addition, students taking CGA courses will be provided the Adobe Creative Cloud software via the students RCSJ email. This will allow students to install the software on their personal computers.

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[COA-CAGD; CIP Code 11.0803]

Certificate of Achievement

The goal of this Certificate of Achievement (COA) is to provide entry-level knowledge of job skills necessary in the graphic arts industry, including instruction in animation, web design, preparing graphics for screen display and video editing. The Certificate of Achievement series also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.

Program Contact
Mary Malinconico, Associate Professor Coordinator, Computer Graphic Arts
mmalinco@rcsj.edu

Computer Graphic Arts: Game/Interactive Design, COA

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

TOTAL CREDITS: 18

This certificate of achievement stacks into the Computer Graphic Arts: Game/Interactive Design, A.A.S. program.

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.

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**Computer Graphic Arts: Print Design Option, A.A.S.**

**FIRST YEAR — Fall Semester**
- CGA 103 Design, Color and Type 3
- CGA 115 Foundations of Computer Graphic Arts 3
- ART 105 Drawing I 3
- ENG 101 English Composition I 3
- MAT 101 Concepts of Mathematics 3

**Spring Semester**
- ART 131 Introduction to Digital Photography 3
- CGA 130 Video and Audio Editing 3
- CGA 120 Introduction to Electronic Publishing and Typography 3
- ENG 102 English Composition II 3
- ___ ___ General Education elective 3

**SECOND YEAR — Fall Semester**
- CGA 220 Advanced Electronic Publishing 3
- CGA 215 Electronic Illustration I 3
- CGA 217 Electronic Image Processing 3
- ___ ___ Social Science elective 3
- COM 104 Business Communications or 3
- CEP 211 Internship Career Connections 15

**Spring Semester**
- CGA 219 Web Design 3
- ART 201 Art History I 3
- ___ ___ General Education elective 3
- ___ ___ General Education elective 3
- ART 231 Intermediate Digital Photography 3

**TOTAL CREDITS: 60**

**Program Notes**

Computer Graphic Arts is an academic program that requires students to complete assignments beyond class time. The Computer Graphic Arts program requires students to have a computer at home with specific technology requirements, which will allow students to run the Adobe Creative Cloud Software Suite. For specific technical requirements for the computer, please see [rcsj.edu/laptop](http://rcsj.edu/laptop) In addition, students taking CGA courses will be provided the Adobe Creative Cloud software via the students RCSJ email. This will allow students to install the software onto their personal computers.

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**Are you ready to get started at RCSJ?**

Visit [RCSJ.edu/Enroll](http://RCSJ.edu/Enroll) and complete the interest form.

---

**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 Contact**

Mary Malinconico, Associate Professor Coordinator, Computer Graphic Arts

mmalinco@rcsj.edu
Computer Graphic Arts: Print Design, COA

[COA-CAPD; CIP Code 11.0803]

Certificate of Achievement

The goal of this Certificate of Achievement (COA) is 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. The Certificate of Achievement series also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.

Program Contact
Mary Malinconico, Associate Professor Coordinator, Computer Graphic Arts mmalinco@rcsj.edu

- 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

This certificate of achievement stacks into the Computer Graphic Arts: Print Design Option, A.A.S. program.
BUSINESS STUDIES DIVISION

Computer Information Systems, A.S.

This is a 3+1 option program with Rowan University.

[AS-CIS; CIP Code 11.0101]

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

Program Contact

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

FIRST YEAR —Fall Semester

- ENG 101 English Composition I 3
- MAT 103 Statistics 3
- CIS 102 Introduction to Computers 4
- CIS 151 Web Development – HTML/CSS 4

14

Spring Semester

- ENG 102 English Composition II 3
- CIS 110 Fundamentals of Programming 4
- CIS 120 Spreadsheets – EXCEL 4
- CIS 154 Advanced Web Development 3

14

SECOND YEAR — Fall Semester

- ECO 101 Principles of Economics I 3
- CIS 210 Relational Databases 4
- CIS 251 Web Programming 3
- Humanities elective 3
- Business elective* 3-4

16-17

Spring Semester

- ECO 102 Principles of Economics II 3
- CIS 207 Management Information Systems 3
- CIS 264 Database Application Development 3
- Program elective** 3
- Lab Science elective 4

16

TOTAL MINIMUM CREDITS: 60

Program Notes

Business Elective*
Select 1 of the following courses
- BUS 102 Accounting I
- BUS 107 Business Law I
- BUS 207 Accounting Information Systems
- BUS 221 Principles of Marketing
- BUS 224 Social Media Marketing and Web Analytics
- BUS 231 Principles of Management

Program Elective**
Select 1 of the following courses
- CIS 200 Principles of Information Security
- CIS 220 IT Help Desk/Technical Support
- CEP 211 Internship Career Connections

BUS 231 is recommended for transfer to Wilmington University
CIS 200 is recommended for transfer to Wilmington University

Offered Online

This program is also offered fully online. Participants in this program will be enrolled as a cohort to encourage support and collaboration. This means that all students in the cohort will be scheduled together in 5- or 7-week courses for the duration of the program. Typically, students will take two courses within each 7-week block. In an average semester, all students will have completed at least 12 credits. Courses in the Fall and Spring Semester will be taught in 7-week blocks. Courses in the Winter and Summer Semesters will be taught in 5-week blocks.
After completing the Computer Information Systems, A.S., students may choose to continue with the bachelor’s degree pathway at RCSJ.

The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

Data Analytics 3+1

THIRD YEAR — Fall Semester
- CSC 106 Introduction to Data Science 3
- CIS 300 Applied Database Technologies 3
- CSC 205 Programming in C++ 4
- ___ ___ Elective Artistic Literacy 3
- CIS 200 Principles of Information Security 3

Spring Semester
- SPE 101 Oral Communications 2
- CSC 225 Programming in R 2
- MAT 203 Statistics II 3
- ___ ___ Elective Global Literacy 3
- DATA 301 Research Methods & Ethical Issues in Data Analysis 3

FOURTH YEAR — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 team members at both institutions work closely with students to guide them through the process.

Industry & Employment Opportunities

Bachelor’s
Data Center Computer Operations, Database Administrator, Data Engineer, Information Management

Master’s
Principal Data Scientist, College Professor

Questions?
About 3+1: Alescia Kennon, akennon1@rcsj.edu
About the program, Erin Bethusiem, Instructor I, ebethus1@rcsj.edu

RCSJ.edu/3plus1
BUSINESS STUDIES DIVISION

Digital Marketing, A.A.S.

[Digital Marketing, A.A.S.]

**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. This program has additional globally recognized accreditation through the Accreditation Council for Business Schools and Programs (ACBSP).

**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 Contact**

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

**FIRST YEAR — Fall Semester**

- ENG 101 English Composition I 3
- BUS 101 Introduction to Business 3
- CIS 102 Introduction to Computers 4
- CIS 151 Web Development – HTML/CSS 4
- MAT 103 Statistics 3

**Spring Semester**

- ENG 102 English Composition II 3
- BUS 221 Principles of Marketing 3
- CIS 154 Advanced Web Development 3
- ___ ___ Program elective 3–4
- ___ ___ General Education elective 3

**SECOND YEAR — Fall Semester**

- SPE 101 Oral Communications 3
- BUS 102 Accounting I 4
- BUS 224 Social Media Marketing and Web Analytics 3
- BUS 231 Principles of Management 3
- COM 104 Business Communication 3

**Spring Semester**

- ___ ___ Humanities or Social Science elective 3
- CIS 207 Management Information Systems 3
- BUS 225 Principles of Advertising 3
- CEP 211 Internship Career Connections 3

**TOTAL MINIMUM CREDITS: 60**

**Program Elective (select one)**

- CGA 103 Design, Color and Type
- 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

**Offered Online**

This program is also offered fully online. Participants in this program will be enrolled as a cohort to encourage support and collaboration. This means that all students in the cohort will be scheduled together in 5- or 7-week courses for the duration of the program. Typically, students will take two courses within each 7-week block. In an average semester, all students will have completed at least 12 credits. Courses in the Fall and Spring Semester will be taught in 7-week blocks. Courses in the Winter and Summer Semesters will be taught in 5-week blocks.
Digital Marketing, COA

[COA-CADM; CIP Code 52.1401]

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.

Program Contact
Irena Skot, Assistant Professor
Coordinator, Computer Information Systems
iskot@rcsj.edu

- BUS 221 Principles of Marketing 3
- BUS 224 Social Media Marketing and Web Analytics 3
- BUS 225 Principles of Advertising 3
- CIS 151 Web Development – HTML/CSS 4
- CIS 154 Advanced Web Development 3

TOTAL CREDITS: 16

This certificate of achievement stacks into the Digital Marketing, A.A.S. program.

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.
Entrepreneurship, A.A.S.

**FIRST YEAR — Fall Semester**
- BUS 102 Accounting I 4
- BUS 107 Business Law I 3
- BUS 129 Introduction to Entrepreneurship 3
- ENG 101 English Composition I 3

**Spring Semester**
- BUS 231 Principles of Management 3
- BUS 221 Principles of Marketing 3
- CIS 102 Introduction to Computers 4
- ENG 102 English Composition II or COM 105 Technical and Scientific Writing 3
- SPE 101 Oral Communication 3

**SECOND YEAR — Fall Semester**
- BUS 225 Principles of Advertising 3
- BUS 237 Human Resource Management 3
- CIS 120 Spreadsheets - EXCEL 4
- ECO 102 Principles of Economics II (Micro) 3
- MAT 103 or MAT 107 or Higher (excluding MAT 120) General Education Mathematics Elective 3

**Spring Semester**
- BUS 207 Accounting Information Systems 3
- BUS 234 Small Business Management 3
- BUS 224 Social Media Marketing and Web Analytics 3
- BUS 212 Introduction to International Business or COM 104 Business Communications 3
- General Education Humanities Elective 3

**TOTAL MINIMUM CREDITS: 60**

**Program Learning Outcomes**
- Prepare and present effective oral and written business presentations.
- Evaluate key elements of a strategic plan and make recommendations for improvements.
- Work effectively in both leadership and support roles as part of diverse teams to achieve a variety of business-related tasks.
- Analyze existing local small business and prepare recommendations.
- Demonstrate mastery of financial and managerial accounting concepts by preparing balance sheets, income statements, statements of cash flows, and budgets by performing costs, volume and profit analysis.
- Discuss the philosophy of the concepts essential for business development.
- Describe the formal structure that affect entrepreneurial practices.
- Locate, retrieve and critically evaluate information and information sources.

Are you ready to get started at RCSJ? Visit [RCSJ.edu/Enroll](http://RCSJ.edu/Enroll) and complete the interest form.
Entrepreneurship, COA

[COA-CAEN; CIP Code 52.0701]

Certificate of Achievement

This program offers students a framework for understanding the role of an entrepreneur in leading start-up businesses and expanding small businesses. Students will develop and hone the necessary skills to compete in today’s global business environment. Through theory and practical application, students will enhance their development of critical thinking, communication, and problem-solving skills, as well as adaptability and teamwork.

Program Contact
José Torres, Associate Professor Coordinator, Entrepreneurship jtorres4@rcsj.edu

BUS 129 Introduction to Entrepreneurship 3
BUS 231 Principles of Management 3
BUS 234 Small Business Management 3
CIS 102 Introduction to Computers or
CIS 120 Spreadsheets - EXCEL 4
Program Elective 3/4

TOTAL MINIMUM CREDITS: 16

Program Electives - Select One

- BUS 102 Accounting I 4
- BUS 107 Business Law I 3
- BUS 207 Accounting Information Systems 3
- BUS 221 Principles of Marketing 3
- BUS 224 Social Media Marketing and Web Analytics 3
- BUS 237 Human Resource Management 3
- COM 104 Business Communications 3
- SPE 101 Oral Communication 3

This certificate of achievement stacks into the Entrepreneurship, A.A.S. program.

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Human Resource Management, A.S.

[AS-HRM; CIP Code 52.1005]

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. This program has additional globally recognized accreditation through the Accreditation Council for Business Schools and Programs (ACBSP).

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

Program Contact

Danielle Morganti, Associate Professor Coordinator, Business Studies dmorganti@rcsj.edu

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 HPE ___ Health and Physical Education elective 1–3
  

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
  

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
  

Spring Semester

- BUS 221 Principles of Marketing 3
- BUS 241 Business Ethics 3
- BUS 243 Organizational Development 3
- CEP 211 Internship Career Connections 3
- ECO 101 Principles of Economics I 3

TOTAL MINIMUM CREDITS: 60

This program is also offered fully online. Participants in this program will be enrolled as a cohort to encourage support and collaboration. This means that all students in the cohort will be scheduled together in 5- or 7-week courses for the duration of the program. Typically, students will take two courses within each 7-week block. In an average semester, all students will have completed at least 12 credits. Courses in the Fall and Spring Semester will be taught in 7-week blocks. Courses in the Winter and Summer Semesters will be taught in 5-week blocks.

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Management, COA

[COA-CAMT; CIP Code 52.1401]

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.

Program Contact
Irena Skot, Assistant Professor
Coordinator, Computer Information Systems
iskot@rcsj.edu

- BUS 231 Principles of Management   3
- BUS 237 Human Resource Management   3
- BUS 239 Organizational Behavior   3
- BUS 243 Organizational Development   3
- BUS 241 Business Ethics   3
- BUS 104 Personal and Professional Branding   1

TOTAL CREDITS: 16

This certificate of achievement stacks into the Human Resource Management, A.S. program.

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.
Technology Help Desk Support, COA

- CIS 102 Introduction to Computers 4
- CIS 120 Spreadsheets – EXCEL 4
- CIS 210 Relational Databases 4
- CIS 220 IT Technical/Help Desk Support 3
- CIS ___ CIS elective or CEP ___ Internship Career Connections 3

TOTAL CREDITS: 18

This certificate of achievement stacks into the Computer Information Systems, A.S. program.

[COA-CATS; CIP Code 11.0201]

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.

Program Contact
Irena Skot, Assistant Professor Coordinator, Computer Information Systems
iskot@rcsj.edu

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Website Development, COA

[COA-CAWD; CIP Code 11.0801]

Certificate of Achievement

The goal of this Certificate of Achievement (COA) is to provide the foundation of website design and development. The Certificate of Achievement series also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.

Program Contact
Irena Skot, Assistant Professor
Coordinator, Computer Information Systems
iskot@rcsj.edu

- CIS 151 Web Development – HTML/CSS 4
- CIS 154 Advanced Web Development 3
- CGA 212 Screen Graphics 3
- CIS 110 Fundamentals of Programming 4
- CIS 251 Web Programming 3

TOTAL CREDITS: 17

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.
Invest in your future by developing the skills and knowledge required for employment in high-wage, fast-growing industries.

RCSJ.edu/CTE

Angelina Zeller, Certified Nursing Assistant

Find Your Program

From industry-recognized credentials to technical degree programs — Rowan College of South Jersey offers the perfect blend of academic instruction, employability coaching and hands-on experience to prepare you for the workforce. The Division of Career & Technical Education is also home to corporate training, personal and professional development courses and apprenticeship opportunities.

Find Your Opportunity

RCSJ’s Division of Career & Technical Education provides access to one-of-a-kind degree and certificate programs, hands-on industry experience and personalized advisement to prepare students for profitable careers in local, regional and global economies. Whether you attend classes on the Cumberland campus, the Gloucester campus or online, you are guaranteed a quality education at one of the lowest tuition rates in New Jersey.
Automotive Technology, A.A.S.

FIRST YEAR — First Semester
- AUT 101 Auto Service Fundamentals 2
- AUT 107 Automotive Electrical Systems 5
- ENG 101 English Composition I 3
- MAT 100 Foundations of Mathematics I 3
- CEP 200 Cooperative Education Work Experience 1

Total: 14

Second Semester
- AUT 105 Brakes and Hydraulics Controls 3
- AUT 103 Front End Suspension 3
- HIS 204 First 100 Years of the American Auto 3
- PHY 101 Principles of Physical Science 4
- ART 101 Art Appreciation 3

Total: 16

Third Semester
- AUT 110 Engine Repair 4
- AUT 111 Heating, Ventilation and Air Conditioning 3
- CIS 102 Introduction to Computers 4
- AUT 135 Manual Transmissions 3
- CEP 203 Cooperative Education Work Experience 1

Total: 15

SECOND YEAR — Fourth Semester
- CEP 204 Cooperative Education Work Experience 1
- AUT 139 Automatic Transmission Systems 3
- AUT 123 Automotive Electronics 4
- ENG 102 English Composition II 3
- PSY 101 General Psychology 3
- CEP 208 Cooperative Education Work Experience 1

Total: 15

TOTAL CREDITS: 60

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 gloucesteraasset.com for program and Internship Career Connections 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 Internship Career Connections.

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
CAREER AND TECHNICAL EDUCATION DIVISION

Process Technology, A.A.S.

[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

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Technical Studies, A.A.S.

**FIRST YEAR — Fall Semester**
- ENG 101 English Composition I 3
- MAT ___ General Education Mathematics elective or
- General Education Science elective or
- General Education Technology elective 3–4
- General Education elective 3–4
- Technical elective* 3–4
12–15

**Spring Semester**
- ENG 102 English Composition II 3
- General Education Social Science or
- General Education Humanities elective 3
- Technical elective* 3–4
- Technical elective* 3–4
12–14

**SECOND YEAR — Fall Semester**
- General Education Diversity elective 3
- General Education elective 3–4
- Technical elective* 3–4
9–10

**Spring Semester**
- Technical elective* 3–4
3–4

- Apply up to 24 Technical Credits, as per Articulation Agreement** 24

**TOTAL MINIMUM CREDITS: 60**

*Technical electives may be selected from any of the following areas:
Business Studies - BUS; Computer Information Systems - CIS; Computer Graphic Arts - CGA;
Computer Science - CSC; Civil Engineering Technology - CET; Drafting and Design - OFT;
Engineering Science - ENR; Surveying Engineering Technologies

**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 24 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 24 credits may be awarded, based on the ACE review and the recommendations provided by Student Services. Students with less than 24 credits may select credits from the Technical electives listed above.

Program Contact
Brigette Satchell, Dean, Career and Technical Education
bsatchel@rcsj.edu

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.
Wind Power and Turbine Technology, CERT

[CER-WIND; CIP Code 150699]

Certificate

This program will provide students thorough knowledge and understanding of fluid hydraulic systems; electrical machinery; mechanical operations; computer and information technology skills; wind turbine operation, maintenance, installation and assembly; and safety, through a combination of classroom and/or online lecture and hands-on laboratory learning modules.

Program Learning Outcomes

Students who have completed this program will be able to:

• Understand the fundamental principles of wind turbine operation and apply these principles to wind turbine design, installation, repair, design, and maintenance.
• Recognize operation, design, and maintenance issues for wind turbine installation, maintenance, and repair.
• Utilize critical thinking to problem solve in wind turbine installation, maintenance, and repair.

Program Contact

Luis Almeyda, Director, Wind and Renewable Energy
lalmeyda@rcsj.edu

FIRST YEAR — Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 107 Pre-Calculus and Mathematics Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 107 Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 218 Programmable Logic Controllers</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 240 Pneumatic and Hydraulic Automation</td>
<td>4</td>
</tr>
</tbody>
</table>

17

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 110 Fundamentals of Programming</td>
<td>4</td>
</tr>
<tr>
<td>WIND 101 Offshore Safety and Survival</td>
<td>3</td>
</tr>
<tr>
<td>WIND 110 Wind Power Technology</td>
<td>3</td>
</tr>
<tr>
<td>WIND 115 Wind Power Operations and Maintenance</td>
<td>4</td>
</tr>
</tbody>
</table>

16

TOTAL CREDITS: 33

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Division of Communication and Creative & Performing Arts

Harness your creativity and showcase an array of techniques for communication and cultural appreciation through verbal, written and visual expression.

RCSJ.edu/CCPA

Find Your Program

From Communication to Theater, Fine Arts to Photography, Radio/TV/Film to Music — Rowan College of South Jersey offers the perfect opportunity to flex your creative muscles and share your vision with the world. The Division of Communication and Creative & Performing Arts is home to performance and cultural centers that place the spotlight on RCSJ’s talented students along with communicators, artists and performers from all over the world.

Find Your Opportunity

RCSJ’s Division of Communication and Creative & Performing Arts provides access to one-of-a-kind degree and certificate programs, internship experiences and personalized advisement to prepare students for profitable careers in local, regional and global economies. Whether you attend classes on the Cumberland campus, the Gloucester campus or online, you are guaranteed a quality education at one of the lowest tuition rates in New Jersey.

Choose from 4 academic delivery styles:

- In-Person
- Live Online
- Hybrid
- Traditional Online

Jessica Fowler, Theatre
COMMUNICATION AND CREATIVE & PERFORMING ARTS DIVISION

Arts and Sciences:
Art Option, A.A.

[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 Contact
Eoin Kinnarney, Associate Professor, Art ekinnarney@rcsj.edu

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- MAT ___ Mathematics elective
- ART 101 Art Appreciation I 3
- MUS 101 Music Appreciation I 3
- HIS 101 History of Western Civilization I 3
- ___ ___ Global and Cultural Awareness elective 3

Spring Semester
- ENG 102 English Composition II 3
- MAT ___ Mathematics elective
- HIS 102 History of Western Civilization II 3
- ___ ___ Global and Cultural Awareness elective 3
- ART 201 Art History I 3

SECOND YEAR — Fall Semester
- ___ ___ Lab Science elective 4
- SOC 101 Principles of Sociology 3
- ___ ___ English elective 3
- ART 202 Art History II 3

Spring Semester
- SPE 101 Oral Communication 3
- ___ ___ Lab Science elective 4
- PSY 101 General Psychology 3
- PHI 101 Introduction to Philosophy 3
- ART ___ Program elective - Art 3

TOTAL MINIMUM CREDITS: 60

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.
3 Program Electives
ART 105 Drawing I
ART 108 Drawing and Painting I
ART 114 Painting I
ART 116 Color Theory
ART 121 History of Photography
ART 131 Introduction to Digital Photography
ART 231 Intermediate Digital Photography

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.
COMMUNICATION AND CREATIVE & PERFORMING ARTS DIVISION

Arts and Sciences: Communication Option, A.A.

This is a 3+1 option program with Rowan University.

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- MAT ___ Mathematics elective (MAT 101, 102 or 110 suggested) 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 103 Statistics 3
- SOC 101 Principles of Sociology 3
- HIS 102 History of Western Civilization II 3
- COM 201 Journalism I 3

15

SECOND YEAR — Fall Semester
- ___ ___ Lab Science elective 1 4
- ENG Global and Cultural Awareness Elective 3
- COM 201 Journalism I 3
- ___ ___ Global and Cultural Awareness 3
- COM ___ Program Option elective 3

16

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

14

TOTAL MINIMUM CREDITS: 60

Program Option Electives
- COM 104 Business Communications
- COM 105 Technical and Scientific Writing
- COM 115 Sports Communication, Culture & Identity
- COM 140 Internet Research and Communications
- 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
- CGA 103 Design Type and Color
- CGA 120 Introduction to Electronic Publishing and Typography

Program Notes
1 Students should contact their advisors to clarify 4-year degree transfer requirements and refer to the College catalog for course pre-requisites.
2 English Global and Cultural Awareness Electives
3 Students intending to transfer to Rowan University should take COM 205 Feature Writing and COM 220 Mass Media as program option electives.
4 Students intending to take the 3+1 Applied Professional Communications Option are recommended to take CGA 103 and CGA 120 as Program Option Electives

Program Contact
Andrea Vinci, Assistant Professor, English avinci@rcsj.edu

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
After completing the Arts and Sciences: Communication Option, A.A., students may choose to continue with the bachelor’s degree pathway at RCSJ.

The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

Applied Professional Communications 3+1

THIRD YEAR — Fall Semester
- COM 305 Writing, Research and Technology 3
- COM 324 Introduction to New Media 3
- Literature or Writing Elective 3
- Free Elective 3
- Free Elective 3
- Total 15

Spring Semester
- COM 300 Publication, Layout and Design 3
- COM 334 Digital Media Techniques 3
- CGA 120 Introduction to Electronic Publishing and Technology or Free Elective 3
- Free Elective 3
- Free Elective 3
- Total 15

Suggested Year 3 Electives
BUS 224, BUS 221, BUS 225, PHI 150, SOC 130, COM 115, SOC 104, 3 credits in any language: ITA, SPA, GER, ASL

FOURTH YEAR — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 team members at both institutions work closely with students to guide them through the process.

Questions?
About 3+1: Alescia Kennon, akennon1@rcsj.edu
About the program, Andrea Vinci, Ed.D., avinci@rcsj.edu
RCSJ.edu/3plus1

Industry & Employment Opportunities

Bachelor’s
Public Relations Specialist, Marketing Strategist, Advertising and Promotions Manager

Master’s
Broadcast News Analyst, Reporter, Journalist, Community Health Worker
Communications and Creative & Performing Arts Division

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.

[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 Contact

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

Arts and Sciences: Digital Photography Option, A.A.

FIRST YEAR — Fall Semester

- ENG 101 English Composition I 3
- MAT ___ Mathematics elective¹ 3–4
- HIS ___ History elective 3
- ART ___ Art elective² 3
- ART 121 History of Photography 3

15–16

Spring Semester

- ENG 102 English Composition II 3
- MAT ___ Mathematics elective¹ 3–4
- HIS ___ History elective 3
- ART 131 Introduction to Digital Photography 3
- ___ ___ Global and Cultural Awareness elective¹ 3
- HPE ___ Health and Physical Education elective 1–3

16–18

SECOND YEAR — Fall Semester

- ___ ___ Lab Science elective¹ 4
- SOC 101 Principles of Sociology 3
- ENG ___ English elective 3
- ART 141 Introduction to Photoshop 3

13

Spring Semester

- SPE 101 Oral Communication 3
- ___ ___ Lab Science elective¹ 4
- PSY 101 General Psychology 3
- PHI 101 Introduction to Philosophy 3
- ART 231 Intermediate Digital Photography 3

16

TOTAL MINIMUM CREDITS: 60

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 must complete all Arts and Science (A.A.) required courses as indicated.
² The art elective may be selected from the following courses.

Program Electives²

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

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.

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**Digital Photography, COA**

- [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.

**Program Contact**
Eoin Kinnarney, Associate Professor, Art 
ekinnarney@rcsj.edu

- ART 131 Introduction to Digital Photography 3
- ART 141 Introduction to Photoshop 3
- ART 231 Intermediate Digital Photography 3
- ART 121 History of Photography 3
- ART 116 Color Theory 3

**TOTAL CREDITS: 15**
Arts and Sciences: English Option, A.A.

**FIRST YEAR — 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\(^2\) 3

**Spring Semester**
- ENG 102 English Composition II 3
- MAT ____ Mathematics elective\(^1\) 3–4
- ENG 103 Survey of World Literature 3
- HIS 102 History of Western Civilization II\(^2\) 3
- ENG ____ Program Option elective — English 3
- HPE ____ Health and Physical Education elective 1–3

**SECOND YEAR — Fall Semester**
- ____ ____ Lab Science elective\(^1\) 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

**Spring Semester**
- SPE 101 Oral Communication 3
- ____ ____ Lab Science elective\(^1\) 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

**TOTAL MINIMUM CREDITS: 60**

**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

**Are you ready to get started at RCSJ?**
Visit [RCSJ.edu/Enroll](http://RCSJ.edu/Enroll) and complete the interest form.
Arts and Sciences:
Music Option, A.A.

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- HIS 101 History of Western Civilization I 3
- ART 101 Art Appreciation I 3
- MAT ___ Mathematics elective* 3–4
  12–13

Spring Semester
- ENG 102 English Composition II 3
- HIS 102 History of Western Civilization II 3
- MUS 212 Music Theory** 3
- MUS 215 Aural Skills 1
- ___ ___ General Education Elective - Diversity* 3
- MAT ___ Mathematics Elective* 3–4
  16–17

SECOND YEAR — Fall Semester
- ENG ___ English Elective 3
- ___ ___ General Education Elective - Ethics* 3
- ___ ___ Lab Science Elective* 4
- SOC 101 Principles of Sociology 3
- MUS 126 History of Music 3
  16

Spring Semester
- PHI 101 Introduction to Philosophy 3
- SPE 101 Oral Communication 3
- ___ ___ Lab Science Elective* 4
- PSY 101 General Psychology 3
- MUS ___ Program Option Elective – Music 3
  16

TOTAL MINIMUM CREDITS: 60

Program Notes
* Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course pre-requisites.
** Placement into MUS 212 Music Theory is by Placement Exam or Instructor’s permission. No exceptions.
+ Basic Musicianship/Basic Aural Skills will NOT transfer to any four-year music program. They are open to any student, but considered remedial for Music Option students.

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

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
- Demonstrate a basic proficiency in music theory and skill

Program Contact
Dr. Natalka Pavlovsky, Professor, Music npavlovsky@rcsj.edu

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.


**Arts and Sciences: Radio, Television and Film Option, A.A.**

This is a 3+1 option program with Rowan University.

**First Year — Fall Semester**
- ENG 101 English Composition I 3
- MAT ____ Mathematics elective^3 3–4
- PSY 101 General Psychology 3
- HIS 101 History of Western Civilization I^2 3
- COM 217 Applied Media Aesthetics 3

**Spring Semester**
- ENG 102 English Composition II 3
- MAT ____ Mathematics elective^3 3–4
- ART 101 Art Appreciation I or
- MUS 101 Music Appreciation I 3
- HIS 102 History of Western Civilization II^2 3
- COM 216 Foundations of Media Production 3

**Second Year — Fall Semester**
- SPE 101 Oral Communication 3
- ___ ___ Lab Science elective^1 4
- SOC 101 Principles of Sociology 3
- ___ ___ Global and Cultural Awareness elective 3
- COM 212 TV History and Appreciation 3

**Spring Semester**
- ___ ___ Lab Science elective^1 4
- PHI 101 Introduction to Philosophy 3
- ___ ___ Humanities - Broad-Based (HUP) elective^1 3
- HPE ___ Health and Physical Education elective 1–3
- COM 210 Film History and Appreciation 3

**Total Minimum Credits: 60**

**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, MAT 102, MAT 115 suggested

Students who have credits from other schools or changed their major may not follow the generic course sequence sheet.
The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

Radio, Television and Film 3+1

THIRD YEAR — Fall Semester
- COM 310 TV Production I 3
- COM 319 Screenwriting I 3
- Free Elective (Literature Required) 3
- Free Elective 3
- Free Elective 3

15

Spring Semester
- COM 312 Film Production I 3
- COM 317 The Movie Industry 3
- Free Elective 3
- Free Elective 3
- Free Elective 3

15

FOURTH YEAR — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 team members at both institutions work closely with students to guide them through the process.

Questions?

About 3+1: Alescia Kennon, akennon1@rcsj.edu

About the program:
David Coates, dcoates@rcsj.edu

RCSJ.edu/3plus1
Division of
Education &
Humanities

Prepare to make an impact on future generations with analytical prowess, societal knowledge and a well-rounded education supported by critical thinking and problem-solving skills.

RCSJ.edu/Education

Choose from 4 academic delivery styles: In-Person, Live Online, Hybrid, Traditional Online

Find Your Program

From History to Philosophy, Literature to Language, Early Childhood Education to a Professorial pathway — Rowan College of South Jersey offers the perfect blend of classroom instruction and hands-on experience that will prepare you to educate others. The Division of Education & Humanities is home to Teachers 2000 cohort program, which provides an immersive and supportive learning community.

Find Your Opportunity

RCSJ’s Division of Education & Humanities provides access to one-of-a-kind degree and certificate programs, internship experiences and personalized advisement to prepare students for meaningful careers in education and the humanities. Whether you attend classes on the Cumberland campus, the Gloucester campus or online, you are guaranteed a quality education at one of the lowest tuition rates in New Jersey.

Isabella Mevoli, Inclusive Education
EDUCATION AND HUMANITIES DIVISION

Arts and Sciences, A.A.

[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

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

Program Contact

Dr. Paul Rufino, Dean, Education and Humanities
prufino@rcsj.edu

FIRST YEAR — Fall Semester

- ENG 101 English Composition I 3
- MAT ___ Mathematics elective¹ 3–4
- SOC 101 Principles of Sociology 3
- ART 101 Art Appreciation I or
- MUS 101 Music Appreciation I 3
- HIS 101 History of Western Civilization I² 3

15–16

Spring Semester

- ENG 102 English Composition II 3
- MAT ___ Mathematics elective¹ 3–4
- PSY 101 General Psychology 3
- ___ ___ Modern Language elective² 3
- HIS 102 History of Western Civilization II 3
- HPE ___ Health and Physical Education elective 1–3

16–19

SECOND YEAR — Fall Semester

- ___ ___ Lab Science elective¹ 4
- ___ ___ Social Science elective¹ 3
- ENG ___ English elective¹ 3
- ___ ___ Global and Cultural Awareness elective¹ 3
- ___ ___ General Education elective¹ 3

16

Spring Semester

- SPE 101 Oral Communication 3
- ___ ___ Lab Science elective¹ 4
- ___ ___ Social Science elective¹ 3
- PHI 101 Introduction to Philosophy 3

13

TOTAL MINIMUM CREDITS: 60

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
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.

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.

Online Option
EDUCATION AND HUMANITIES DIVISION

Arts and Sciences: History Option, A.A.

[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 Contacts**

Gina Rongione-D’Argenio, Assistant Professor, History  
grongion@rcsj.edu

Joseph D’Argenio, Assistant Professor, History  
jdargeni@rcsj.edu

**FIRST YEAR — Fall Semester**

- ENG 101 English Composition I 3
- MAT ___ Mathematics General Education Elective 3–4
- POL 101 American Federal Government 3
- Humanities General Education Elective 3
- HIS 103 History of the United States I 3

15–16

**Spring Semester**

- ENG 102 English Composition II 3
- MAT ___ Mathematics General Education Elective 3–4
- Social Science General Education Elective 3
- Global and Cultural General Education Elective 3
- HIS 104 History of the United States II 3
- HPE ___ Health and Physical Education Elective or  
  BUS 104 Personal & Professional Branding 1–3

16–17

**SECOND YEAR — Fall Semester**

- Lab Science General Education Elective 4
- Humanities General Education Elective 3
- HIS ___ History Elective 3
- Social Science General Education Elective 3
- HIS/POL Program Option Elective 3

16

**Spring Semester**

- SPE 101 Oral Communication 3
- Lab Science General Education Elective 4
- Humanities General Education Elective 3
- HIS ___ History Elective 3

13

**TOTAL MINIMUM CREDITS: 60**

**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 GEO 102 Cultural Geography recommended

3 HIS 101, HIS 102, HIS 205, or HIS 206

4 FS 101 Freshman Seminar may be substituted on the Cumberland campus in place of HPE

5 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

*Are you ready to get started at RCSJ?  
Visit [RCSJ.edu/Enroll](http://RCSJ.edu/Enroll) and complete the interest form.*
[AA-ASC-PHI; CIP Code 24.0101]

**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 Contact**

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

---

**Arts and Sciences: Philosophy Option, A.A.**

**FIRST YEAR — Fall Semester**

- ENG 101 English Composition I 3
- MAT ___ Mathematics Elective 3–4
- PHI 101 Introduction to Philosophy 3
- ART 101 Art Appreciation I or MUS 101 Music Appreciation I 3
- HIS 101 History of Western Civilization I 3

**Total Credits: 15–16**

**Spring Semester**

- ENG 102 English Composition II 3
- MAT ___ Mathematics Elective 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 – Philosophy 3

**Total Credits: 16–19**

**SECOND YEAR — Fall Semester**

- ___ ___ Lab Science Elective 4
- ENG ___ English Literature Elective 3
- ___ ___ Global and Cultural Awareness Elective 3
- ___ ___ General Education elective 3
- PHI ___ Program Option elective – Philosophy 3

**Total Credits: 16**

**Spring Semester**

- SPE 101 Oral Communication 3
- ___ ___ Lab Science Elective 4
- SOC 101 Introduction to Sociology 3
- PHI ___ Program Option elective – Philosophy 3

**Total Credits: 13**

**TOTAL MINIMUM CREDITS: 60**

**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

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Are you ready to get started at RCSJ? Visit [RCSJ.edu/Enroll](https://RCSJ.edu/Enroll) and complete the interest form. ✨
**Education, A.S.**

*This is a 3+1 option program with Rowan University.*

<table>
<thead>
<tr>
<th>FIRST YEAR — Fall Semester</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
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<tr>
<td>PSY 212 Adolescent Psychology or PSY 213 Child Psychology</td>
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<td>EDU 205 History of American Education</td>
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<tr>
<td>HIS ___ U.S. History Elective</td>
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<tr>
<td>SOC 102 Sociology of the Family</td>
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<td>SOC 110 Cultural Anthropology</td>
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<td>ENG 102 English Composition II</td>
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<td>EDU 105 Educational Technology</td>
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<td>ART ___ Art Appreciation I or MUS ___ Music Appreciation</td>
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<tr>
<td>___ ___ General Education Lab Science Elective</td>
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<tr>
<td>COM 225 Why We Write: Writing for Elementary Students</td>
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<tr>
<td>GEO 102 Cultural Geography</td>
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</tr>
<tr>
<td>PSY 203 Educational Psychology</td>
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<td>MAT ___ General Education Mathematics Elective</td>
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<thead>
<tr>
<th>Spring Semester</th>
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<tr>
<td>ENG LIT English Literature Elective</td>
<td>3</td>
</tr>
<tr>
<td>EDU 130 Human Exceptionality</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communications</td>
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</tr>
<tr>
<td>MAT ___ General Education Mathematics Elective</td>
<td>3-4</td>
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<tr>
<td>EDU 215 &amp; 216 Principles and Pedagogies in the Inclusive Classroom &amp; Seminar or EDU 220 Foundations of Inclusive Education</td>
<td>3</td>
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</tbody>
</table>

**TOTAL MINIMUM CREDITS: 60**

Program Notes

1. Students intending to transfer to Rowan University should take HIS 103
2. Students intending to transfer to Rowan University should take BIO 107 and PHY 101
3. Students intending to transfer to Rowan University should take MUS 103
4. Students intending to transfer to Rowan University should take ENG 103
5. Students intending to transfer to Rowan University should take MAT 120 and MAT 121
6. Students who intend to continue in the RCSJ 3+1 Inclusive Education Program or transfer to Rowan University as an Inclusive Education major should register for EDU 220. If students intend to transfer to Rowan University into either Elementary Education or Early Childhood Education programs, they should register for both EDU 215 & 216.
7. Students transferring to Rowan University Inclusive, Elementary, Early Childhood Education, or follow the 3+1 MUST take PSY 213.

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 educational systems and theories and the teaching profession

Program Contact

Kevin Kitchenman, Assistant Dean Education and Humanities

kkitchen@rcsj.edu

Are you ready to get started at RCSJ? Visit [RCSJ.edu/Enroll](http://RCSJ.edu/Enroll) and complete the interest form.
After completing the Education A.S., students may choose to continue with the bachelor’s degree pathway at RCSJ.

The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

Inclusive Education 3+1

THIRD YEAR – Fall Semester
- EDU 301 Literacy Pedagogy I
- EDU 320 Clinical Experience I in Inclusive Education
- EDU 315 Working with Families & Communities
- EDU 310 Differentiating Instruction in the Inclusive Classroom
- EDU 330 Trauma Informed Instruction
- EDU 305 Current Policy & Practice in ESL & Bilingual Edu

Spring Semester
- EDU 318 Positive Behavior Support Systems
- EDU 327 Clinical Experience II in Inclusive Education
- EDU 335 Social Studies Methods for the Inclusive Classroom
- EDU 323 Assessment in Special & Inclusive Education
- EDU 340 Science Inquiry & Methods for the Inclusive Classroom
- EDU 302 Literacy Pedagogy II
- EDU 345 Mathematics Strategies for the Inclusive Classroom

Total Credits: 15

FOURTH YEAR — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 team members at both institutions work closely with students to guide them through the process.

Bachelor’s
Elementary School Teacher, Special Education Teacher, Secondary Teacher

Master’s
College Professor, Principal, Childcare Administrator

Questions?
About 3+1: Alescia Kennon, akennon1@rcsj.edu
About the program: Kevin Kitchenman, Assistant Dean, kkitchen@rcsj.edu

RCSJ.edu/3plus1
Health, Physical Education and Recreation (HPER), A.S.

[AS-HPE; CIP Code 13.1314]

Associate in Science (A.S.) — Transfer

The goal of this program is to provide the first two years of a Health, Physical Education & Recreation baccalaureate degree program for students who wish to transfer to a four-year institution as a Health, Physical Education & Recreation major.

Program Learning Outcomes

Students who have completed the program will be able to:

• Demonstrate an understanding of pedagogy and core educational practices of physical education teachers.
• Demonstrate an understanding of pedagogy and core educational practices of health education professionals.
• Demonstrate a foundation of knowledge required to promote fitness, health, and recreational activities to sustain lifelong wellness.
• Analyze, evaluate and provide basic care in emergency situations.

Program Notes

1 Chemistry, Biology or Physics recommended

Program Contact

Rob Valli, Instructor
rvalli@rcsj.edu

TOTAL MINIMUM CREDITS: 60

FIRST YEAR – Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 101 Concepts of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HPE 136 Nutrition</td>
<td>3</td>
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<tr>
<td>HPE 214 Principles of Health and Physical Education</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>
<td>3</td>
</tr>
<tr>
<td>__ Lab Science Elective (CHM/BIO/PHY)</td>
<td>4</td>
</tr>
<tr>
<td>SPE 101 Oral Communications</td>
<td>3</td>
</tr>
<tr>
<td>HPE 211 Consumer Health Decisions</td>
<td>3</td>
</tr>
<tr>
<td>HPE 252 Foundations of Fitness</td>
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SECOND YEAR – Fall Semester

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<tr>
<td>BIO 105 Anatomy and Physiology I or BIO 106 Anatomy and Physiology II</td>
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<tr>
<td>EDU 205 History of American Education</td>
<td>3</td>
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<tr>
<td>PSY 203 Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ART 101 Art Appreciation or MUS 101 Music Appreciation</td>
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<tr>
<td>HPE 233 Safety, First Aid, and Prevention of Athletic Injuries</td>
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Spring Semester

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<tr>
<td>GEO 102 Cultural Geography</td>
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<tr>
<td>PSY 212 Adolescent Psychology</td>
<td>3</td>
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<tr>
<td>HPE 245 Motor Development and Motor Learning</td>
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<tr>
<td>HPE 257 Pedagogy &amp; Instructional Practices in Health &amp; Physical Education</td>
<td>3</td>
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<tr>
<td>HPE __ elective</td>
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<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Neurodiversity and Inclusion, COA

[COA-CADP; CIP Code 090702

Certificate of Achievement

This certificate program is designed to provide foundational knowledge and skills to paraprofessionals and instructional aids who are currently employed in school districts and working with neurodiverse student populations.

Program Contact
name, program, email @rcsj.edu

- PSY 101 General Psychology 3
- PSY 213 Child Psychology 3
- PSY 203 Educational Psychology 3
- EDU 130 Human Exceptionality 3
- EDU 207 Foundational Practices: Supporting Children Using the Positive Behavior Support System 3
- EDU 218 Foundations of Trauma Informed Practices that Support Social Emotional Development 3

TOTAL CREDITS: 18

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Division of Nursing & Health Professions

Prepare to provide compassionate care as a licensed healthcare professional with an education focused on scholarly assessment, clinical judgement and patient needs.

RCSJ.edu/Nursing

Shane McDonald, Nursing

Choose from 4 academic delivery styles: In-Person, Live Online, Hybrid, Traditional Online

Find Your Program

From Nursing to Nutrition, Physical Therapy to Radiography, Sonography to Exercise Science — Rowan College of South Jersey offers the perfect blend of classroom instruction and hands-on clinical experience, preparing you to provide skilled and sympathetic patient care. The Division of Nursing & Health Professions offers exclusive benefits through its premier partnership with Inspira Health Network, along with the only Physical Therapist Assistant program in South Jersey.

Find Your Opportunity

RCSJ’s Division of Nursing & Health Professions provides access to one-of-a-kind degree and certificate programs, clinical experiences and personalized advisement to prepare students for in-demand careers in healthcare. Whether you attend classes on the Cumberland campus, the Gloucester campus or online, you are guaranteed a quality education at one of the lowest tuition rates in New Jersey.
Certified Clinical Medical Assistant (CCMA), COA

First Semester
- CMA 101 Foundations in Medical Assisting 3
- CMA 107 Medical Assistants in Practice Lab I 1
- CMA 103 Structure of the Human Body I 2
- ALH 140 Biomedical Ethics 3
- NTR 101 Nutrition for Healthcare Providers 3
- HPE 105 Healthcare Provider Emergency Response with BLS Certification 1

Second Semester
Part A: Ten weeks
- CMA 104 Structure of the Human Body II 2
- CMA 108 Medical Assistants in Practice Lab II 1
- CMA 110 Pharmacology in Medical Assisting 1
- CMA 114 Medical Assisting Front Office Procedures 2
- CMA 118 Fundamentals of ECG/EKG 3
- CMA 125 Fundamentals of Phlebotomy 3

Part B: Five weeks
- CMA 120 ECG/EKG Clinical 1
- CMA 128 Phlebotomy Clinical 1
- CMA 131 CCMA Capstone Experience 2

TOTAL CREDITS: 29

Certificate of Achievement

The CCMA certificate program at RCSJ provides the requisite training for entry-level postsecondary medical assistant students through classroom, laboratory and supervised clinical instruction and practice. CCMA program graduates receive a Certificate of Achievement upon completion of all program components. Students in good academic standing are eligible to take the national credentialing exam at the completion of all program requirements.

For more information visit RCSJ.edu/gc/CCMA.

Please note:
Beginning in fall of 2020, the CCMA program has a revised curriculum. Students may apply through the selective admission process located on the College web site. The program will require 29 credits 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.

Program Contact
Samantha Wagner, Director of Selective Entry Programs, swagne12@rcsj.edu

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
### Diagnostic Medical Sonography (DMS), A.A.S.

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 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.

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 — Fall Semester**
- ENG 101 English Composition I 3
- BIO 105 Anatomy and Physiology I* 4
- PHY 103 General Physics I 4
- PSY 101 General Psychology 3
- DMS 101 Intro. to Med. Imaging 1 15

**Spring Semester**
- ENG 102 English Composition II 3
- BIO 106 Anatomy and Physiology II 4
- ALH 102 Medical Terminology 3
- ___ ___ Social Science elective 3
- DMS 117 Ultrasound Physics I 2
- ALH 104 Patient Care 1 16

**Summer Semester**
- DMS 113 Cross Section Anatomy 2
- DMS 126 Intro. to Clinical Practicum and Scan Lab (10 weeks) 4

**SECOND YEAR — Fall Semester**
- DMS 201 Sonographic Interpretations I 2
- DMS 203 Clinical Practicum I 3
- DMS 209 OB/GYN Sonography I 3
- DMS 106 Abdominal Sonography II 2
- ___ ___ Humanities elective 3 13

**Spring Semester**
- DMS 226 Ultrasound Physics II 1
- DMS 202 Sonographic Interpretations II 2
- DMS 204 Clinical Practicum II 3
- DMS 222 Vascular Ultrasound 3
- DMS 210 OB/GYN Sonography II 3
- HPE ___ Health and Physical Education elective 1 13

**Summer Semester**
- DMS 221 Seminars in Ultrasound 1
- DMS 208 Small Parts Scanning 1
- DMS 205 Clinical Practicum III 1 3

**TOTAL CREDITS: 66**

**Program Notes**

*Refer to the course description section of this catalog for prerequisite/co-requisite course requirements.
Program Goals
The DMS program will:
• To prepare entry-level sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains for the abdominal sonography-extended and obstetrics and gynecology sonography concentrations.
• 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.
## Exercise Science, A.S.

*This is a 3+1 option program with Rowan University.*

### FIRST YEAR — Fall Semester
- ENG 101 English Composition I  
  3
- BIO 101 General Biology  
  4
- HPE 240 Introduction to Health and Physical Education  
  3
- PSY 101 General Psychology  
  3

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<th>Course Name</th>
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<td>BIO 105 Anatomy and Physiology I</td>
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<td></td>
<td>HPE 136 Nutrition</td>
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<td>MAT ___ Math General Education Elective</td>
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<tr>
<td></td>
<td>HPE 170 Stress Management 2 or BIO 102 General Biology II</td>
<td>3-4</td>
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### SECOND YEAR — Fall Semester
- BIO 106 Anatomy and Physiology II  
  4
- SPE 101 Oral Communications  
  3
- HPE 245 Motor Development and Motor Learning  
  3
- Humanities General Education Elective (ART 101 or MUS 101 recommended)  
  3
- HPE 252 Foundations of Fitness  
  3
- CHM 111 General Chemistry I  
  3

### Spring Semester
- HPE 233 Safety, First Aid and the Care and Prevention of Athletic Injuries  
  3
- HPE 211 Consumer Health Decisions  
  3
- SOC 101 Principles of Sociology or SOC 102 Sociology of the Family  
  3
- HPE 265 Fitness Assessment and Exercise Prescription  
  3
- PSY 206 Psychopharmacology  
  3
- HPE 270 Essentials of Personal Training  
  3

**TOTAL MINIMUM CREDITS: 60**

### Program Notes

1. Recommended for transfer to Rowan University
2. Recommended for transfer to Rowan University B.S. Public Health and Wellness program
3. Recommended for transfer to Rowan University B.S. Exercise Science or Fitness Management 3+1 program
4. MAT 103 recommended
The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor's degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

Fitness Management 3+1

THIRD YEAR — Fall Semester
- HPE 300 Kinesiology: 3
- PSY 300 Introduction to Sport & Exercise Psychology: 3
- Business Elective: 3
- HPE 170 or Free Elective: 3
- Free Elective: 3

Spring Semester
- HPE 305 Exercise Physiology with Laboratory: 4
- HPE 238 Principles of Coaching: 2
- ICC 211 Internship Career Connections: 3
- PSY 308 Social Psychology of Sport or Free Elective: 3
- Free Elective: 3

Total: 15

FOURTH YEAR — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 team members at both institutions work closely with students to guide them through the process.

Questions?

About 3+1: Alescia Kennon, akennon1@rcsj.edu

About the program:
Timothy Schmitz, tschmitz@rcsj.edu

RCSJ.edu/3plus1
Health Science, A.A.S.

First Year – Fall Semester
- ENG 101 English Composition I or ENG 101E Enhanced College Composition 3-4
- BIO 105 Anatomy and Physiology I 4
- MAT ___ See Math Course Bank 3-4
- NTR 101 Nutrition for Health Professions 3
- ALH 102 Medical Terminology 3
- Total Credits: 16-18

Spring Semester
- ENG 102 English Composition II 3
- PSY 101 General Psychology 3
- BIO 106 Anatomy and Physiology II 4
- ___ ___ See General Program Course Bank 2 3
- ALH 140 Biomedical Ethics 3
- Total Credits: 16

Second Year – Semester
- ___ ___ Health Science Course Bank 1 12

Spring Semester
- ___ ___ General Program Course Bank 2 16

Total Credits: 60

Course Banks
1 Health Science Course Bank
ALH 104, ALH 107, ALH 130, CMA 101, CMA 103, CMA 104, CMA 107, CMA 108, CMA 110, CMA 114, CMA 120, CMA 125, CMA 128, CMA 131, NTR 101, HPE 105, HPE 136, HPE 170, HPE 201, HPE 211, HPE 233, NURS 102, NURS 105, NURS 107, NURS 126

2 General Program Course Bank

3 Math Course Bank
MAT 101, MAT 103, MAT 105, MAT 107, MAT 110, MAT 115

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.

Program Notes
Please keep in mind that the following are selective admission programs.
- 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.

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.
Health Science — Diagnostic Medical Sonography, A.A.S.

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- BIO 105* Anatomy and Physiology I 4
- PHY 103 General Physics I 4
- DMS 101 Intro. to Med. Imaging 1
  ______________________________  12

Spring Semester
- ENG 102 English Composition II 3
- BIO 106 Anatomy and Physiology II 4
- ALH 102 Medical Terminology 3
- DMS 117 Ultrasound Physics I 2
- ALH 104 Patient Care 1
  ______________________________  13

Summer Semester
- DMS 113 Cross Section Anatomy 2
- DMS 126 Intro. to Clinical Practicum and Scan Lab (10 weeks) 2
  ______________________________  4

SECOND YEAR — Fall Semester
- DMS 201 Sonographic Interpretations I 2
- DMS 203 Clinical Practicum I 3
- DMS 209 OB/GYN Sonography I 3
- DMS 106 Abdominal Sonography II 2
- PSY 101 General Psychology 3
  ______________________________  13

Spring Semester
- DMS 226 Ultrasound Physics II 1
- DMS 202 Sonographic Interpretations II 2
- DMS 204 Clinical Practicum II 3
- DMS 222 Vascular Ultrasound 3
- DMS 210 OB/GYN Sonography II 3
- HPE ____ HPE elective 1
  ______________________________  13

Summer Semester
- DMS 221 Seminars in Ultrasound 1
- DMS 208 Small Parts Scanning 1
- DMS 205 Clinical Practicum III 1
  ______________________________  3

TOTAL MINIMUM CREDITS: 60

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

-AAS-DMS; CIP Code 51.0910-

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).
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.
To learn more about the program or attend an information session, please visit RCSJ.edu/gc/SelectiveAdmissions.
Program Contact
Angela Robson, Advisor, arobson1@rcsj.edu
Nickolas Raddi, Advisor, nraddi@rcsj.edu

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.
Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.

Health Science — Nuclear Medicine Technology, A.A.S.

[51.0000; AAS-HEA]

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).

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

Program Contact
Angela Robson, Advisor, arobson1@rcsj.edu
Nickolas Raddi, Advisor, nraddi@rcsj.edu

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- BIO 105 Anatomy and Physiology I 4
- CHM 111 General Chemistry I 4
- PSY 101 General Psychology 3  
- Total Credits: 14

Spring Semester
- ENG 102 English Composition II 3
- BIO 106 Anatomy and Physiology II 4
- PHY 103 General Physics 4
- ALH 107 Cross Sectional Anatomy 2  
- Total Credits: 13

SECOND YEAR — Fall Semester, Spring Semester
- See Course Banks for electives 33  
- Total Credits: 60

COURSE BANKS

1 Health Science Course Bank
ALH 104, ALH 107, ALH 130, CMA 101, CMA 103, CMA 104, CMA 107, CMA 108, CMA 110, CMA 114, CMA 118, CMA 120, CMA 125, CMA 128, CMA 131, NTR 101, HPE 105, HPE 136, HPE 201, HPE 211, HPE 233, NURS 102, NURS 105, NURS 107, NURS 126

2 General Program Course Bank

3 Math Course Bank
MAT 101, MAT 103, MAT 105, MAT 107, MAT 110, MAT 115

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.

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
[AAS-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](http://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 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.

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

**Program Contact**

Angela Robson, Advisor, arobson1@rcsj.edu

Nickolas Raddi, Advisor, nraddi@rcsj.edu

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**Health Science — Nursing, A.A.S.**

**FIRST YEAR — Fall Semester**

- ENG 101 English Composition I 3
- BIO 105 Anatomy and Physiology I 4
- PSY 101 General Psychology 3
- HPE 136 Nutrition 3
- Total: 13

**Spring Semester**

- ENG 102 English Composition II 3
- BIO 106 Anatomy and Physiology II 4
- SOC 101 Principles of Sociology 3
- PSY 211 Psychology of Human Development 3
- Humanities elective 3
- Total: 16

**SECOND YEAR— Fall Semester**

- BIO 215 Microbiology 4
- Health Science Course Bank Elective¹ 9
- General Program Course Bank Elective² 3
- Total: 16

**Spring Semester**

- Health Science Course Bank Elective¹ 8
- General Program Course Bank Elective² 7
- Total: 15

**TOTAL CREDITS: 60**

¹ Health Science Course Bank

- ALH 104, ALH 107, ALH 130, CMA 101, CMA 103, CMA 104, CMA 107, CMA 108, CMA 110, CMA 114, CMA 118, CMA 120, CMA 125, CMA 128, CMA 131, NTR 101, HPE 105, HPE 136, HPE 170, HPE 201, HPE 211, HPE 233, NURS 102, NURS 105, NURS 107, NURS 126

² General Program Course Bank


³ Math Course Bank

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

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.

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Are you ready to get started at RCSJ? Visit [RCSJ.edu/Enroll](http://RCSJ.edu/Enroll) and complete the interest form.
Health Science — Physical Therapist Assistant, A.A.S.

[AAE-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 Physical Therapist Assistant (PTA).

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

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.

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- BIO 105 Anatomy and Physiology I 4
- PSY 101 General Psychology 3
- MAT 115 College Geometry 3

Spring Semester
- ENG 102 English Composition II 3
- BIO 106 Anatomy and Physiology II 4
- Health Science Course Bank Elective1 9

SECOND YEAR — Fall Semester
- Health Science Course Bank Elective1 16

Spring Semester
- Health Science Course Bank Elective1 15

TOTAL CREDITS: 60

Program Contact
Angela Robson, Advisor, arobson1@rcsj.edu
Nickolas Raddi, Advisor, nraddi@rcsj.edu

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
**Health Science — Respiratory Therapy, A.A.S.**

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

This pathway is designed to prepare students for the fundamental curriculum required for application to a Respiratory Therapy Program.

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

**Program Contact**

Angela Robson, Advisor, arobson1@rcsj.edu

Nickolas Raddi, Advisor, nraddi@rcsj.edu

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<td>BIO 107 Human Biology</td>
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<td>PSY 101 General Psychology</td>
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<td>SOC 130 Society, Ethics &amp; Technology</td>
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<td>SOC 101 Principles of Sociology</td>
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<td>ALH 140 Biomedical Ethics</td>
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<td>HPE 105 Healthcare Provider Emergency Response w/BLS Certification</td>
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<td>ALH 104 Patient Care</td>
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<td>BIO 215 Microbiology</td>
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**TOTAL CREDITS: 60**
Nursing and Health Professions Division

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.

Nuclear Medicine Technology (NMT), A.A.S.

[AA-S-NMT; CIP Code 51.0905]

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 the second year of the program in collaboration with clinical affiliates. Clinical hours occur during all College sessions.

Program Contact
name, program, email @rcsj.edu

FIRST YEAR – Fall Semester
- ENG 101 English Composition I  
- BIO 105 Anatomy and Physiology I  
- CHM 111 General Chemistry I  
- PSY 101 General Psychology  

Spring Semester
- ENG 102 English Composition II  
- BIO 106 Anatomy and Physiology II  
- PHY 103 General Physics  
- ALH 107 Cross Sectional Anatomy  

Summer Session I (first 7 weeks)
- NMT 106 Radiation Safety and Biology  
- NMT 107 Radiation Physics  

Summer Session (second 7 weeks)
- NMT 114 Clinical Imaging Procedures I  
- NMT 116 Basic Nuclear Medicine Procedures  

SECOND YEAR – Fall Semester
- NMT 205 Clinical Internship I  
- NMT 210 Clinical Imaging Procedures II  
- NMT 215 Radiopharmacy  

Spring Semester
- NMT 227 Clinical Internship II  
- NMT 230 Nuclear Instrumentation and Statistics  
- NMT 233 Clinical Imaging Procedures III  

TOTAL CREDITS: 60

Program Learning Objectives

Students who complete this program will be able to:

1. Work effectively as a member of a healthcare team by respecting diversity, communicating effectively, and providing patient care in a competent, ethical, and compassionate manner.

2. Demonstrate knowledge by applying entry level competencies of clinical imaging procedures, instrumentation, radiopharmacy and radiation safety and biology in the clinical environment.

3. Recognize and articulate the importance of continued personal and professional growth to enhanced quality of life and maintain high professional standards, in the field of Nuclear Medicine Technology.

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.
Nuclear Medicine Technology (NMT), A.A.S., continued

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.
NURSING AND HEALTH PROFESSIONS DIVISION

Nursing LPN-RN, A.A.S.

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

<table>
<thead>
<tr>
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<th>Credits</th>
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<td>ENG 101 English Composition I</td>
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<td>BIO 105 Anatomy and Physiology I</td>
<td>4</td>
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<tr>
<td>PSY 101 General Psychology I</td>
<td>3</td>
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<tr>
<td><strong>Total Credits</strong></td>
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Winter Semester

- ENG 115 LPN to RN Track: 3 credits
- Upon completion of ENG 115, students will be awarded 4 credits for LPN license: 4 credits

Spring Semester

- ENG 102 English Composition II: 3 credits
- BIO 106 Anatomy and Physiology II: 4 credits
- NURS 120 Nursing II: 9 credits
- NURS 121 Nursing II Lab: 1 credit
- **Total Credits**: 17

SECOND YEAR — Fall Semester

- BIO 215 Microbiology: 4 credits
- NURS 230 Nursing III: 8 credits
- NURS 231 Nursing III Lab: 1 credit
- **Total Credits**: 13

Spring Semester

- NURS 240 Nursing IV: 7 credits
- NURS 245 Transition to Practice: 4 credits
- NURS 210 Nursing Global Issues and Trends: 2 credits
- **Total Credits**: 12

**TOTAL CREDITS: 60**

Program Information

The American Nurses Association defines nursing as "both an art and a science, a heart, and a mind. At its heart, lies a fundamental respect for human dignity and an intuition for a patient's needs. This is supported by the mind, in the form of rigorous care learning. Due to the vast range of specialisms and complex skills in the nursing profession, each nurse will have specific strengths, passions, and expertise." (ANA, 2021).

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.

Employment Opportunities

According to the Bureau of Labor Statistics, "Employment of registered nurses is projected to grow 6 percent from 2021 to 2031 about as fast as the average for all occupations." (https://www.bls.gov/ooh/healthcare/registered-nurses.htm)
Special Admission Requirements

Nursing is a selective admission program. Students who may qualify for the program must have graduated from an accredited LPN program and hold a valid unencumbered LPN license. Students must be accepted to the program prior to registering for any NURS classes.

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 to progress to 200-level courses. 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.

Highlights

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.
Nursing (NURS), A.A.S.

This is a 3+1 option program with Rowan University.

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- BIO 105 Anatomy and Physiology I 4
- PSY 101 General Psychology 3
- NURS 110 Nursing I 6
- NURS 111 Nursing I Lab 1
  17

Spring Semester
- ENG 102 English Composition II 3
- BIO 106 Anatomy and Physiology II 4
- NURS 120 Nursing II 9
- NURS 121 Nursing II Lab 1
  17

SECOND YEAR — Fall Semester
- BIO 215 Microbiology 4
- NURS 230 Nursing III 8
- NURS 231 Nursing Lab III 1
  13

Spring Semester
- NURS 240 Nursing IV 7
- NURS 245 Transition to Practice 4
- NURS 210 Nursing Global Issues and Trends 2
  13

TOTAL CREDITS: 60

Special Admission Requirements
Nursing is a selective admission program. Students must be accepted to the program prior to registering for any NURS 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 to progress to 200-level courses. 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 three 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
According to the Bureau of Labor Statistics, “Employment of registered nurses is projected to grow 6 percent from 2021 to 2031, about as fast as the average for all occupations.” (https://www.bls.gov/ooh/healthcare/registered-nurses.htm)

Program Outcomes
Graduates of the Nursing program will:
- Apply principles of evidence-based practice to patient care
- Value inter professional and community partners collaboration
- Demonstrate ethical and professional nursing practice

Program Information
The American Nurses Association defines nursing as “both an art and a science, a heart, and a mind. At its heart, lies a fundamental respect for human dignity and an intuition for a patient’s needs. This is supported by the mind, in the form of rigorous care learning. Due to the vast range of specialisms and complex skills in the nursing profession, each nurse will have specific strengths, passions, and expertise.” (ANA, 2021).

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.

Highlights
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.
The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

**Nursing 3+1**

**THIRD YEAR — Fall Semester**
- Fine Arts Elective 3
- SPE 101 Oral Communication 3
- NUR 303 Comprehensive Health Assessment 3
- Broad-based Literature 3
- General Elective Option 3

**Spring Semester**
- NUR 305 Nursing Informatics 3
- NUR 308 Topics in Healthcare Ethics 3
- Humanities/History/Language 3
- MAT 103 Statistics 3
- Free Elective 3

**FOURTH YEAR —** After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 team members at both institutions work closely with students to guide them through the process.

**Bachelor’s**
- Registered Nurse
- Health Information Specialist
- Community Health Worker

**Master’s**
- Midwife
- Healthcare Social Worker
- Nurse Practitioner

**Questions?**
- About 3+1: Alescia Kennon, akennon1@rcsj.edu
- About the program.
Nutrition, A.S.

[AS-NTR; CIP Code 19.0501]

Associate in Science (A.S.) — Transfer
This program is designed for those students wishing to pursue a field of study leading to becoming a Registered Dietitian or nutrition professional. It is designed to meet the transfer requirements for students leading to a BS-Nutrition-Dietetics concentration or a BS Nutrition degree at a 4-year College or University.

Program Learning Outcomes
Students who complete the program will be able to:

- Identify professional characteristics of a Registered Dietitian/nutrition professional including education and training requirements.
- Summarize the roles and responsibilities of Registered Dietitians and nutrition professionals in a variety of practice settings.
- Apply nutrition, digestion and metabolic pathways concepts into practice.
- Demonstrate competency in math and the sciences to be able to handle the rigors of continued study to become a Registered Dietitian and/or nutrition professional.

Program Contact
Sherry Valente-Gaspari, Director,
Nutrition Program
svalente@rcsj.edu

FIRST YEAR — Fall Semester
- CHM 111 General Chemistry I 4
- BIO 105 Anatomy and Physiology I 4
- ENG 101 English Composition I 3
- NTR 105 Introduction to Nutrition Professions 3

Spring Semester
- CHM 112 General Chemistry II 4
- BIO 106 Anatomy and Physiology II 4
- PSY 101 General Psychology 3
- ENG 102 English Composition 3

SECOND YEAR — Fall Semester
- NTR 101 Nutrition for Health Professions 3
- CHM 201 Organic Chemistry I 4
- SPE 101 Oral Communication 3
- BIO 101 General Biology I 4
- ___ Free Elective 3

Spring Semester
- SOC 110 Cultural Anthropology 3
- MAT 103 Statistics 3
- BIO 102 General Biology II 4
- Humanities Elective (ART 101 or MUS 101 recommended) 3
- HPE or ALH Elective 2-3

TOTAL MINIMUM CREDITS: 60

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

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.

The 2+2 pathway is a new initiative slightly different from a traditional transfer. Students interested in earning their bachelor's degree in one of these programs must start at RCSJ for the first two years. The last two years are taught by Rowan University faculty, but some classes will be held at RCSJ.
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
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

Physical Therapist Assistant continued

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

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 or any PTA courses. Please contact the Enrollment Services office for an admission packet.

Clinical agencies require criminal history background checks (CHBC) and urine drug screening (UDS) for all individuals engaged in patient care. All students must undergo a CHBC and UDS upon acceptance into the PTA Program. CHBC and UDS results may be 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 and UDS, the student will be dismissed from the PTA Program.

A minimum grade of “C+” is required in all BIO courses, 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.

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

** HPE 106 is only offered to students who are accepted into the PTA program

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.

The Physical Therapist Assistant Program at Rowan College of South Jersey is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 3030 Potomac Ave., Suite 100, Alexandria, VA 22305-3085, phone: 703-706-3245, email: accreditation@apta.org, website: http://www.capteonline.org.
Division of STEM
(Science, Technology, Engineering and Mathematics)

Develop a foundational understanding of scientific and mathematical principles based on experimentation, analytical thinking, assessment and problem solving.

Find Your Program

From Engineering to Agribusiness, Mathematics to Physics, Bioscience Technology to Cybersecurity — Rowan College of South Jersey offers the perfect solution for you. Save time and money with pre-professional degree programs, like Pre-Pharm.D. and Pre-Veterinary Science, which let you bypass a bachelor’s degree and proceed directly into a doctoral program; or take advantage of honors research programs in Biology or Chemistry, offered in cooperation with Rowan University and Cooper University Hospital.

Find Your Opportunity

RCSJ’s Division of STEM provides access to one-of-a-kind degree and certificate programs, research lab experiences, internship opportunities and personalized advisement to prepare students for success in the hard sciences. Whether you attend classes on the Cumberland campus, the Gloucester campus or online, you are guaranteed a quality education at one of the lowest tuition rates in New Jersey.
**[AS-ASC; CIP Code 24.0101]**

**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 Contact

Karen Durkin, Assistant Dean  
Instructor, Mathematics  
kdurkin@rcsj.edu

Are you ready to get started at RCSJ?  
Visit **RCSJ.edu/Enroll** and complete the interest form.

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**Arts and Sciences, A.S.**

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**FIRST YEAR — Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>CSC 101 Introduction to Programming or CSC 111 Intermediate Programming</td>
<td>4</td>
</tr>
<tr>
<td>MAT 110 Algebra and Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>____ Science elective pair I (first semester)¹</td>
<td>4</td>
</tr>
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| Total Minimum Credits: 15 |

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MAT 107 Pre-Calculus and Mathematical Analysis</td>
<td>4</td>
</tr>
<tr>
<td>____ Science elective pair I (second semester)¹</td>
<td>4</td>
</tr>
<tr>
<td>____ Social Science or Humanities General Education elective</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Minimum Credits: 14 |

**SECOND YEAR — Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>MAT 108 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>____ Science elective pair II (first semester)¹</td>
<td>4</td>
</tr>
<tr>
<td>____ Science/Mathematics elective²</td>
<td>4</td>
</tr>
<tr>
<td>____ Humanities General Education elective</td>
<td>3</td>
</tr>
<tr>
<td>HPE ____ Health and Physical Education elective or ____ Free elective</td>
<td>1-4</td>
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</table>

| Total Minimum Credits: 16–19 |

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>____ Science elective pair II (second semester)¹</td>
<td>4</td>
</tr>
<tr>
<td>____ 200-level Science elective</td>
<td>4</td>
</tr>
<tr>
<td>____ General Education elective</td>
<td>4</td>
</tr>
<tr>
<td>____ Social Science General Education elective</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Minimum Credits: 15 |

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**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 These are the Science elective Pairs. Two pairs of science electives may be selected from the following:

If you take this course ... you must take this course

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</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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<tr>
<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>
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<td>CHM 201</td>
<td>CHM 202</td>
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<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>

² One science courses must be selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101, BIO 103, BIO 104, BIO 105, BIO 107, BIO 112, BIO 113, BIO 115, BIO 116, BIO 140, BIO 209, BIO 212, BIO 215, BIO 221, CHM 111, CHM 201, CHM 215, MAT 122, MAT 201, MAT 229, PHY103, PHY 105, PHY 111, PHY 112, PHY 201, SCI 201</td>
<td></td>
</tr>
</tbody>
</table>

³ In addition to the two science elective pairs and a science elective a 200 level Science Elective course must be selected from the following: BIO 209, BIO 215, BIO 216, BIO 221, CHM 201, CHM 202, PHY 201, PHY 202
Arts and Sciences: Physics Option, A.S.

[AS-ASC-PHY; CIP Code 24.0101]

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 Learnings

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 Contact

Dr. Nasra Sultan, Assistant Professor
nsultan@rcsj.edu

FIRST YEAR — Fall Semester

- ENG 101 English Composition I 3
- PHY 121 Physics for Everyday Life or PHY 105 Modern Astronomy 4
- CHM 111 General Chemistry I 4
- MAT 108 Calculus I 4

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

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

Spring Semester

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

TOTAL MINIMUM CREDITS: 60

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
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.

**Biology, A.S.**

**FIRST YEAR — Fall Semester**
- ENG 101 English Composition I  
- BIO 101 General Biology I  
- CHM 111 General Chemistry I  
- MAT 108 Calculus I  
- Total: 15

**Spring Semester**
- ENG 102 English Composition II  
- BIO 102 General Biology II  
- CHM 112 General Chemistry II  
- COM 105 Technical and Scientific Writing  
- Total: 14

**SECOND YEAR — Fall Semester**
- CHM 201 Organic Chemistry I  
- BIO 209 Ecology  
- ___ ___ Social Science elective  
- ___ ___ Free elective  
- CSC 101 Introduction to Programming or  
  CSC 111 Intermediate Programming  
- Total: 16-19

**Spring Semester**
- CHM 202 Organic Chemistry II  
- BIO 215 Microbiology or  
  BIO 221 Cell and Molecular Biology*  
- ___ ___ Social Science or Humanities elective  
- HPE ___ Health and Physical Education elective  
- ___ ___ Humanities elective  
- Total: 15–17

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**
Students should consult the institutions to which they wish to transfer when selecting elective courses.
*Students planning on transferring to Rowan University should take BIO 221 Cell and Molecular Biology.

**Program Contact**
Dr. Jessica DeGraff, Associate Professor,  
Biology, jdegraff@rcsj.edu
Biology: Bioscience Technologies Option, A.S.

[AS-BIO-TEC; CIP Code 26.0101]

**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 Contact**

Edward Labelle, Ph.D.
Associate Professor, Biology
elabelle@rcsj.edu

**FIRST YEAR — Fall Semester**

- ENG 101 English Composition I  
- BIO 101 General Biology I  
- CHM 111 General Chemistry I  
- MAT 107 Pre-Calculus and Math Analysis  

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
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<tr>
<td>BIO 101 General Biology I</td>
<td>4</td>
</tr>
<tr>
<td>CHM 111 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 107 Pre-Calculus and Math Analysis</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
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</tbody>
</table>

**Spring Semester**

- ENG 102 English Composition II  
- BIO 102 General Biology II  
- CHM 112 General Chemistry II  
- MAT 108 Calculus I  

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 102 General Biology II</td>
<td>4</td>
</tr>
<tr>
<td>CHM 112 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 108 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**SECOND YEAR — Fall Semester**

- BIO 209 Ecology  
- BIO 215 Microbiology  
- ___ ___ Social Science elective  
- ___ ___ Humanities elective  
- BIO 105 Anatomy and Physiology I  

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>BIO 209 Ecology</td>
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<tr>
<td>BIO 215 Microbiology</td>
<td>4</td>
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<td>Social Science elective</td>
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<tr>
<td>Humanities elective</td>
<td>3</td>
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<tr>
<td>BIO 105 Anatomy and Physiology I</td>
<td>4</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**Spring Semester**

- CHM 201 Organic Chemistry I  
- BIO 221 Cell and Molecular Biology  
- ___ ___ Social Science or Humanities elective  
- HPE ___ HPE elective  
- BIO 106 Anatomy and Physiology II  

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHM 201 Organic Chemistry I</td>
<td>4</td>
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<tr>
<td>BIO 221 Cell and Molecular Biology</td>
<td>4</td>
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<tr>
<td>Social Science or Humanities elective</td>
<td>3</td>
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<tr>
<td>HPE HPE elective</td>
<td>1–3</td>
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<tr>
<td>BIO 106 Anatomy and Physiology II</td>
<td>4</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>16–18</strong></td>
</tr>
</tbody>
</table>

**TOTAL MINIMUM CREDITS: 64**

**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.
**Chemistry, A.S.**

**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 Contact**

Dr. Christina Nase, Associate Professor, Chemistry  
cnase@rcsj.edu

<table>
<thead>
<tr>
<th>FIRST YEAR — Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 English Composition I</td>
</tr>
<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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**Spring Semester**

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<td>ENG 102 English Composition II</td>
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<tr>
<td>CHM 112 General Chemistry II</td>
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<tr>
<td>MAT 122 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>COM 105 Technical and Scientific Writing</td>
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**SECOND YEAR — Fall Semester**

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<th>Course</th>
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<tbody>
<tr>
<td>CHM 201 Organic Chemistry I</td>
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<tr>
<td>PHY 201 Physics I (calculus-based)</td>
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<tr>
<td>----- ----- Humanities General Education Elective</td>
<td>3</td>
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<tr>
<td>----- ----- Program Elective²</td>
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**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHM 202 Organic Chemistry II</td>
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<tr>
<td>PHY 202 Physics II (calculus-based)</td>
<td>4</td>
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<tr>
<td>----- ----- Social Science General Education Elective</td>
<td>3</td>
</tr>
<tr>
<td>----- ----- Humanities General Education Elective³</td>
<td>3</td>
</tr>
<tr>
<td>----- ----- Social Science General Education elective</td>
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**TOTAL MINIMUM CREDITS: 60**

**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.
Chemistry: Pre-Pharm.D. Option, A.S.

[AS-CHM-PHA; CIP Code 40.0501]

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:

1. 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
2. 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 Contact

Dr. Christina Nase, Associate Professor, Chemistry
cnase@rcsj.edu

FIRST YEAR — Fall Semester

- ENG 101 English Composition I 3
- CHM 111 General Chemistry I 4
- BIO 101 General Biology I 4
- ___ ___ General Education Elective1 3–4
- HPE ___ Health and Physical Education Elective2 1–3

15-18

Spring Semester

- ENG 102 English Composition 3
- CHM 112 General Chemistry II 4
- BIO 102 General Biology II1 4
- MAT 108 Calculus I 4
- ___ ___ Social Science General Education Elective 3

18

SECOND YEAR — Fall Semester

- CHM 201 Organic Chemistry I 4
- PHY 103 General Physics I 4
- BIO 105 Anatomy & Physiology I4 4
- BIO 215 Microbiology 4

16

Spring Semester

- CHM 202 Organic Chemistry II 4
- PHY 104 General Physics II5 4
- BIO 106 Anatomy and Physiology II 4
- ___ ___ Social Science or Humanities Elective 3
- ___ ___ Humanities General Education Elective 3

18

TOTAL MINIMUM CREDITS: 67

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.

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Visit RCSJ.edu/Enroll and complete the interest form.
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.

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

**First Year** — Fall Semester
- CSC 205 Programming in C++ 4
- ENG 101 English Composition I 3
- MAT 108 Calculus I 4
- Humanities General Education Elective 3
- Social Science General Education Elective 3
  Total 17

**Spring Semester**
- CSC 210 Object Oriented Programming in Java 4
- ENG 102 English Composition II 3
- MAT 122 Calculus II 4
- PHY 201 Physics with Calculus I 4
  Total 15

**Second Year** — Fall Semester
- CSC 203 Assembly Language and Computer Organization 4
- CSC 216 Objects and Data Abstraction using Java 4
- MAT ___ Mathematics elective - Linear Algebra (MAT 202) * or Calculus III (MAT 221) 4
- Humanities Elective / Social Science Elective 3
  Total 15

**Spring Semester**
- CSC 220 Data Structures and Algorithms 4
- MAT 201 Discrete Mathematics 3
- PHY 202 Physics with Calculus II 4
- HPE or Free Elective 2-4
  Total 13-15

**Total Minimum Credits: 60**

**Electives:**
Humanities Elective / Social Science Elective: 9 credits - must be chosen from the approved list of General Education courses. Refer to the College Catalog and/or the Counseling Office.
Mathematics: Linear Algebra (MAT 202) or Calculus III (MAT 221)

*Students planning to transfer to Rowan University should take Linear Algebra MAT 202 as their Mathematics elective.*

**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

This is a 3+1 option program with Rowan University.
The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

### Data Analytics 3+1

#### THIRD YEAR — Fall Semester
- CSC 106 Introduction to Data Science 3
- CIS 300 Applied Database Technologies 3
- CIS 110 Fundamentals of Programming 4
- CIS 200 Principles of Information Security 3
- MAT 103 Statistics 3

#### Spring Semester
- CIS 207 Management Information Systems 3
- CSC 225 Programming in R 2
- MAT 203 Statistics II 3
- DATA 301 Research Methods & Ethical Issues in Data Analysis 3
- SPE 101 Oral Communication 3

#### FOURTH YEAR — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 team members at both institutions work closely with students to guide them through the process.
Computer Science, CERT.

[CER-CSC; CIP Code 11.0701]

Certificate

The goal of this Certificate Program is to give the students the necessary knowledge and skills for employment. This Certificate Program also allows working professionals the opportunity to gather additional knowledge and skills while earning college credits. After completing this program, the student may decide to further his/her studies to earn an Associate degree in Computer Science by completing the remaining course requirements.

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 Contact

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

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.

- ENG 101  English Composition I  3
- CSC 101 Introduction to Programming  4
- CSC 111 Intermediate Programming  4
- CSC 205 Programming in C++¹  4
- CSC 210 Object Oriented Programming in Java  4
- CSC 220 Data Structures and Algorithms²  4
- MAT 110 Algebra and Trigonometry  4
- MAT 107 Pre-Calculus and Mathematical Analysis  4

TOTAL CREDITS: 31
Engineering Science, A.S.

FIRST YEAR — 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 First Year Engineering Clinic I 2

Spring Semester
- CHM 112 General Chemistry II or 3–4
  ___ ___ Program Elective¹
- PHY 201 Physics I (calculus-based) 4
- ENR 103 First Year Engineering Clinic II² 2
- ENR 207 Engineering Materials or 3–4
  ___ ___ Program Elective¹
- MAT 122 Calculus II 4

SECOND YEAR — Fall Semester
- ENG 102 English Composition II 3
- ENR 201 Sophomore Clinic I 1
- MAT 221 Calculus III 4
- HPE ___ Health and Physical Education elective or 1–4
  ___ ___ Free Elective¹ or
  ___ ___ Program Elective¹
- PHY 202 Physics with Calculus II or 3–4
  ___ ___ Program Elective¹
- ___ ___ Humanities elective or
  ___ ___ Social Science elective 3

Spring Semester
- MAT 205 Differential Equations 4
- ENR 202 Sophomore Clinic II³ 1
- HPE ___ Health and Physical Education elective or 1–4
  ___ ___ Free Elective¹ or
  ___ ___ Program Elective¹
- ___ ___ Humanities elective 3
- PHI 104 Ethics 3

TOTAL MINIMUM CREDITS: 60

Program Electives¹,²
- Mechanical²
  - PHY 202
  - ENR 207
  - MAT 202
  - SPE 101
  - SPE 101
  - ENR 211
  - ENR 212
  - ENR 213
- Electrical/Computer²
  - PHY 202
  - MAT 202
  - SPE 101
  - GEO 115
  - CSC 220
  - ENR 108
  - ENR 218
  - ENR 213
  - CET 108
  - DFT 103
- Civil²
  - MAT 202
  - SPE 101
  - ENR 207
  - CHM 201
  - SPE 101
  - CHM 202
  - BIO 101
- Chemical²
  - PHY 202
  - MAT 202
  - SPE 101
  - MAT 202
  - SPE 101
  - CHM 112

Program Notes
1 Students planning to transfer to Rowan University should take the following courses. A maximum of 5 program electives selected from the ones listed below are required for the A.S. degree. Rowan University may require additional courses not offered at this institution.
2 Students wishing to take additional program electives are encouraged to declare a Secondary Program of study by enrolling in an Engineering Science Certificate of Achievement. Financial aid will NOT cover the additional program electives UNLESS you are enrolled in a Certificate of Achievement.
3 Students should review requirements at their transfer institutions. ENR 103, ENR 201, ENR 202 may not transfer to some institutions, please see an advisor for a graduation variance.

Program Contact
Gayle Hughes, Assistant Professor, Engineering
ghughes@rcsj.edu
Certificates of Achievement

The Certificates of Achievement give students the knowledge and skills needed for employment in their respective fields. They will provide students with a concentration of courses that can be taken in conjunction with those required for the A.S. Engineering Science degree program. If the student decides to continue with the remaining course requirements leading to an associate degree in Engineering Science, the certificate will allow them to take the additional courses needed for transfer and can be used as Program electives.

Program Contact

Gayle Hughes, Assistant Professor, Engineering
ghughes@rcsj.edu

Engineering Science, COAs

Biomedical Engineering
[COA-CACS; CIP Code 15.1001]
Core Courses Credits
- BIO 101 General Biology I 3
- CHM 112 General Chemistry II 3
- MAT 202 Linear Algebra 3
- PHY 202 Physics II 3
- SPE 101 Oral Communication 3

TOTAL CREDITS: 18

Civil Engineering
[COA-CACE; CIP Code 14.0101]
Core Courses Credits
- SPE 101 Oral Communication 3
- MAT 202 Linear Algebra 3
- ENR 207 Engineering Materials 3
- ENR 211 Engineering Statics 3
- ENR 212 Mechanics of Materials 3
- ENR 213 Dynamics 3
- GEO 115 Geographical Information Systems 3
- CET 108 Introduction to Surveying 3
- DFT 103 CADD I (AutoCAD) 3

TOTAL CREDITS: 27

Chemical Engineering
[COA-CACH; CIP Code 14.0101]
Core Courses Credits
- SPE 101 Oral Communication 3
- MAT 202 Linear Algebra 3
- CHM 201 Organic Chemistry I 4
- CHM 202 Organic Chemistry II 4

TOTAL CREDITS: 20

Electrical Engineering
[COA-; CIP Code 15.]
Core Courses Credits
- SPE 101 Oral Communication 3
- MAT 202 Linear Algebra 3
- CSC 220 Data Structures and Algorithms 4
- ENR 108 Digital Electronics for Engineering 3
- ENR 218 Principles of Electrical Circuit Analysis 4

TOTAL CREDITS: 17

Mechanical Engineering
[COA-CAMC; CIP Code 14.0101]
Core Courses Credits
- SPE 101 Oral Communication 3
- MAT 202 Linear Algebra 3
- ENR 207 Engineering Materials 3
- ENR 211 Engineering Statics 3
- ENR 212 Mechanics of Materials 3
- ENR 213 Dynamics 3

TOTAL CREDITS: 18

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Engineering Technologies
Construction Supervision, COA

[COA-CACS; CIP Code 15.1001]

Certificate of Achievement

The Professional Development Certificates in the Engineering Technologies Construction Supervision program will provide the students with a concentration of courses that parallel the Associates 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 Rowan College of South Jersey.

- CET 101 Introduction to Materials 3
- DFT 103 CADD I (AutoCad) 3
- ENG 101 Codes, Contracts, Specifications 3
- BUS 107 Business Law or CET 209 Cost Estimating or DFT 203 CADD 3D Modeling 3

TOTAL CREDITS: 12
Environmental Science, A.S.

[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.

Program Contact

Regina Kukola, Instructor I, Biology
rkukola@rcsj.edu

FIRST YEAR — Fall Semester

- MAT 107 Pre-Calculus and Mathematical Analysis or MAT 108 Calculus¹ 4
- ENG 101 English Composition I 3
- BIO 101 General Biology I 4
- ENVS 101 Environmental Science 4

15

Spring Semester

- ENG 102 English Composition II 3
- BIO 102 General Biology II 4
- MAT 103 Statistics 3
- ENVS 110 Physical Geology 4

14

SECOND YEAR — Fall Semester

- SPE 101 Oral Communication 3
- BIO 209 Ecology: Principles and Processes 4
- GEO 115 Introduction to Geographic Information Systems 3
- Program Elective ² 4

14

Spring Semester

- ENVS 201 Research Methods & Data Analysis 4
- Program Elective ² 4
- Humanities General Education Elective 3
- SOC 101 Principles of Sociology 3
- ECO 101 Introduction to Economics (Macro) 3

17

TOTAL CREDITS: 60

Program Notes

¹ Students planning to transfer to a BS program in Environmental Science should take MAT 108. If a student wants to transfer to a BS program, but tests into MAT 107, see the program elective bank advising recommendations below. Students planning to transfer to a BA program in Environmental Science can take either MAT 107 OR MAT 108. It is recommended that students take the highest-level math they place into.

² Program Elective. Select 2 of: PHY 103 Physics I, PHY 201 Physics I (calculus-based), CHM 111 Chemistry I, CHM 112 Chemistry II, MAT 108 Calculus I

Program Elective Bank Advising Recommendations:

• CHM 111 AND CHM 112: Recommended for students planning to transfer to Rowan University's BA or BS in Environmental Science or Stockton University's BS in Environmental Science.
• CHM 111 AND PHY103 OR PHY 201: Recommended for students planning to transfer to Stockton University's BA in Environmental Science.
• MAT 108 AND PHY 201: Recommended for students planning to transfer to a BS program in Environmental Science, but place into MAT 107 in your first semester.
• Students planning to transfer to other BS or BA Environmental Science programs are encouraged to meet with their advisor at RCSJ or their transfer school to select their program elective courses.
Equine Science, A.S.

FIRST YEAR — Fall Semester
- ENG 101 English Composition I or ENG 101E Enhanced English Composition I 3-4
- BIO 101 General Biology I 4
- BIO 116 Animal Science 4
- ___ ___ Free elective 3-4
  14-16

Spring Semester
- ENG 102 English Composition II 3
- BIO 102 General Biology II 4
- BIO 115 Introduction to Equine Science 4
- MAT 107 Pre-Calculus or MAT 108 Calculus 4
  15

SECOND YEAR — Fall Semester
- CHM 111 General Chemistry I 4
- ECO 101 Principles of Economics (Macro) 3
- PSY 101 General Psychology 3
- ___ ___ Humanities elective 3
- ___ ___ Free elective 3-4
  16-17

Spring Semester
- BIO 216 Equine Capstone Practicum 3
- CHM 112 General Chemistry II 4
- ECO 102 Principles of Economics II (Micro) 3
- ___ ___ Lab Science elective* 4
- ___ ___ HPE elective 1-3
  15-17

TOTAL MINIMUM CREDITS: 60

Program Notes
Check requirements of transfer institution for elective selection.
This program is best suited for students to transfer to an animal or equine science program. Students who plan to attend a veterinary medicine doctoral program or who plan to transfer to Rowan University for biology should be Equine Science: Pre-Veterinary Medicine Option majors.

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

Are you ready to get started at RCSJ?
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Equine Science, COA

- BIO 116 Animal Science 4
- BIO 115 Introduction to Equine Science 4
- BIO 216 Equine Capstone Practicum 3
- BIO ___ Biology elective 4

TOTAL CREDITS: 15

[COA-CAES; CIP Code 01.0507]
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.

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

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.
Equine Science: Pre-Veterinary Medicine Option, A.S.

**FIRST YEAR — FIRST SEMESTER**
- BIO 101 General Biology I 4
- BIO 116 Animal Science 4
- CHM 111 General Chemistry I 4
- MAT 108 Calculus I 4

**SECOND SEMESTER**
- ENG 101 English Composition I or ENG 101E Enhanced English Composition 3-4
- BIO 102 General Biology II 4
- BIO 115 Introduction to Equine Science 4
- CHM 112 General Chemistry II 4
- ___ ___ Humanities elective 3

**TOTAL MINIMUM CREDITS: 16**

**THIRD SEMESTER**
- ENG 102 English Composition II 3
- CHM 201 Organic Chemistry I 4
- PSY 101 General Psychology 3
- HPE ___ Health and Physical Education elective 1-3
- ___ ___ Social Science or ___ ___ Humanities General Education Elective 3

**TOTAL MINIMUM CREDITS: 18-19**

**FOURTH SEMESTER**
- BIO 216 Equine Capstone Practicum 3
- CHM 202 Organic Chemistry II 4
- BIO 215 Microbiology or Cell and Molecular Biology* 4
- ___ ___ Lab Science elective* 4

**TOTAL MINIMUM CREDITS: 15**

Program Notes
*Students planning to apply to Ross University’s doctoral Veterinary Medicine program should select BIO 221 and PHY 103 for their Science Elective. Students planning to transfer to Rowan University should select either BIO 215 or BIO 221 and BIO 209 for their science elective. Students planning to transfer to Rutgers University should select BIO 215 and PHY 103 for their science elective.

Check requirements of transfer institution for other transfer institution recommendations.
Marine Science, A.S.

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- CHM 111 General Chemistry I 4
- BIO 101 General Biology I 4
- BIO 112 Introduction to Marine Biology 4

**Total: 15 credits**

Spring Semester
- ENG 102 English Composition I 3
- CHM 112 General Chemistry II 4
- BIO 102 General Biology II 4
- PHI 104 Ethics 3
- HPE ____ Health and Physical Education elective 2–3

**Total: 16–17 credits**

SECOND YEAR — Fall Semester
- BIO 212 Wetlands Field Ecology 4
- PHY 103 General Physics I 4
- MAT 103 Statistics or MAT 107 Pre-calculus and Math Analysis 3–4
- ____ ____ Social Science elective 3

**Total: 14–15 credits**

Spring Semester
- PHY 104 General Physics II 4
- MAT 108 Calculus I 4
- BIO 2 ____ 200-level BIO elective1 or CHM 201 Organic Chemistry I1 4
- ____ ____ Social Science elective or ____ ____ Humanities elective 3

**Total: 15 credits**

**Total Minimum Credits: 60**

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.

Program Contact

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

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.

Mathematics, A.S.

First Year — 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

Total Credits: 15–18

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

Total Credits: 15–18

Second Year — Fall Semester
- MAT 202 Linear Algebra 3
- MAT 221 Calculus III 4
- ___ ___ Science elective 3
- SPE 101 Oral Communication 3

Total Credits: 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

Total Credits: 16–18

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.
Surveying Engineering Technologies, A.A.S.

[Program Information]

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

The Surveying Engineering Technologies Program is for students interested in surveying engineering related careers rather than pure engineering science. It is based on understanding the application of surveying 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: CEP 211 Cooperative Education Experience, CET 201 Codes Contracts and Specifications; CET 207 Hydraulics; DFT 203 3-D Modeling. Note that the prerequisite for DFT 203 3-D Modeling is DFT 211 Architectural and Civil Planning.

The 2+2 pathway is a new initiative slightly different from a traditional transfer. Students interested in earning their bachelor’s degree in one of these programs must start at RCSJ for the first two years. The last two years are taught by Rowan University faculty, but some classes will be held at RCSJ.

Are you ready to get started at RCSJ?
Visit RCSJ.edu/Enroll and complete the interest form.

FIRST YEAR — Fall Semester

- ENG 101 English Composition I 3
- MAT 107 Pre-Calculus and Mathematical Analysis 4
- CSC 111 Intermediate Programming 4
- GEO 115 Intro. to Mapping and GIS 3

14

Spring Semester

- ENG 102 English Composition II 3
- DFT 103 CADD I 3
- MAT 103 Statistics 3
- PHY 111 Earth Science: Land and Sea 4
- CET 108 Intro. to Surveying 3

16

SECOND YEAR — Fall Semester

- PHY 112 Earth Science: Air and Space 4
- CET 206 Evidence and Procedures for Boundary Location 3
- DFT 113 CADD II 3
- MAT 108 Calculus I 4

14

Spring Semester

- SPE 101 Oral Communications 3
- PHI 104 Ethics 3
- MAT 122 Calculus II 4
- CET 208 Route and Construction Surveying 3
- Technical elective$^1$ 16

TOTAL CREDITS: 60
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.

Certificates of Achievement
The Certificates of Achievement in the Surveying 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 Surveying Engineering Technologies from RCSJ.

Surveying Engineering Technologies, COAs

Civil Engineering Technologies
[COA-CCET; CIP Code 15.0201]
Core Courses Credits
- CET 101 Introduction to Materials 3
- CET 108 Introduction to Surveying 3
- CET 203 Applied Statics 3
- CET 204 Structural Systems or
- CET 205 Applied Strengths and Materials or
- CET 208 Route and Construction Surveying 3
TOTAL CREDITS: 12

Construction Supervision
[COA-CACS; CIP Code 15.1001]
Core Courses Credits
- CET 101 Introduction to Materials 3
- DFT 103 CADD I (AutoCad) 3
- CET 201 Codes, Contracts, Specifications 3
- BUS 107 Business Law or
- CET 209 Cost Estimating or
- DFT 203 CADD 3D Modeling 3
TOTAL CREDITS: 12

Drafting and Design
[COA-CADD; CIP Code 15.1302]
Core Courses Credits
- DFT 103 CADD I (AutoCad) 3
- DFT 113 CADD II (Advanced AutoCad) 3
- DFT 211 Architectural and Civil Planning 3
- DFT 203 CADD 3D Modeling 3
TOTAL CREDITS: 12

Surveying Engineering Technology
[COA-CALS; CIP Code 15.1102]
Core Courses Credits
- CET 108 Introduction to Surveying 3
- CET 206 Evidence & Procedures of Boundary Locations 3
- CET 208 Route & Construction Surveying 3
- DFT 103 CADD I (AutoCad) 3
TOTAL CREDITS: 12
Veterinary Technology, A.A.S.

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- MAT 101 Concept of Mathematics 3
- BIO 101 General Biology I 4
- VETT 101 Intro to Veterinary Technology 3
- VETT 115 Animal Behavior and Restraint 3
  Total Semester Credits: 16

Spring Semester
- ENG 102 English Composition II 3
- BIO 102 General Biology II 4
- VETT 105 Anatomy and Physiology of Domestic Animals I 4
- VETT 110 Veterinary Pharmacology 3
- VETT 201 Small Animal Medicine & Nursing Care 4
  Total Semester Credits: 18

SECOND YEAR - Fall Semester
- VETT 106 Anatomy and Physiology of Domestic Animals II 4
- VETT 210 Veterinary Laboratory Procedures I 4
- VETT 225 Veterinary Diagnostic Imaging & Dentistry 3
- VETT 230 Veterinary Surgical Nursing & Anesthesia 3
- VETT 205 Large Animal Medicine & Nursing Care 4
  Total Semester Credits: 18

Spring Semester
- VETT 235 Veterinary Emergency Medicine 3
- VETT 211 Veterinary Laboratory Procedures II 4
- VETT 220 Laboratory and Exotic Medicine and Nursing Care 4
- VETT 240 Veterinary Profession Leadership Seminar & VTNE Prep 3
- Social Sci/Hum Gen Ed 17
  TOTAL MINIMUM CREDITS: 69

Program Learning Outcomes
Students who have completed the program will be able to:
- Achieve an appropriate depth of knowledge in all areas of veterinary medicine as it pertains to veterinary technology.
- Apply the knowledge necessary to successfully complete the Veterinary Technician National Examination (VTNE) to function within the scope of practice of a credentialed veterinary technician.
- Execute the Essential Skills developed by the American Veterinary Medical Association’s (AVMA) Committee on Veterinary Technician Education and Activities (CVTEA).
- Effectively and professionally communicate both written and verbal information to veterinary personnel and clients in a clinical setting.
- Demonstrate the use of critical thinking skills to identify and solve problems in discipline-specific situations.
- Contribute to the veterinary health care team while maintaining professional, legal, and ethical standards including a strong work ethic, personal responsibility, and compassion for animals and clients.
A General Education Foundation for Associate in Arts, Associate in Science, Specialized Associate, and Certificate Programs in New Jersey’s Community Colleges

(1997 Adoption, 2007 Reaffirmed, August 15 2007 Revision, September 6, 2011 Revision) APPROVED BY PRESIDENTS – 4/22/2022

### General Education Requirements

#### Course Categories (Goal Categories)

<table>
<thead>
<tr>
<th>General Education Goal(s) Addressed</th>
<th>Course Categories (Goal Categories)</th>
<th>AA Credits</th>
<th>AS Credits</th>
<th>AAS, AFA, AS Nursing Credits</th>
<th>Certificate Credits</th>
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<tbody>
<tr>
<td>1 Communication</td>
<td>Communication (Written and Oral Com.)</td>
<td>9</td>
<td>6</td>
<td>6</td>
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<tr>
<td>2 Mathematics</td>
<td>Mathematics – Science – Technology</td>
<td>6</td>
<td>9</td>
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<td>3 Mathematics</td>
<td>Mathematics 3-8 cr. (Quant. Knlg. &amp; Skills)</td>
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<td>4 Mathematics</td>
<td>Science 3-8 cr. (Sci. Knlg. &amp; Rmsg.)</td>
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<td>5 Mathematics</td>
<td>Technological Competency 0-4 cr.</td>
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<tr>
<td>6 Social Science</td>
<td>Social Science (Society and Human Behavior)</td>
<td>6</td>
<td>3</td>
<td>3</td>
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<tr>
<td>7 Humanities</td>
<td>Humanities (Humanistic Perspective)</td>
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<td>3</td>
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<td>8 History</td>
<td>History (Historical Perspective)</td>
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<tr>
<td>9 Diversity Courses</td>
<td>Diversity Courses (Global &amp; Cult. Awns.)</td>
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<td>Unassigned general education credit</td>
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<td>General Education Foundation Total</td>
<td>33</td>
<td>30</td>
<td>20</td>
<td>6</td>
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</table>

#### General Education Foundation Total

**Course Criteria:** Below are brief descriptions of the course criteria for satisfying the requirements. For fuller descriptions see the NJCC GE Course Criteria (September 6, 2011).

1. **Communication**
   - Written and Oral Communication
   - 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 - including non-majors survey courses. At least one of these courses must have a laboratory component.

4. **Technology**
   - Technological Competency
   - Any course that emphasizes common computer technology skills (e.g. computer science, information technology) that helps students to access, process, and present information. This component is not required for students who can demonstrate competency.

5. **Social Science**
   - Society and Human Behavior
   - Any introductory course(s) from among anthropology, economics, geography, political science, psychology, or sociology.

6. **Humanities**
   - Humanistic Perspective
   - Any broad-based course(s) in the appreciation of art, music, or theater; literature: foreign language; history: philosophy and/or religious studies.

7. **History**
   - Historical Perspective
   - Any broad-based course(s) or sequence of courses in World, Western, non-Western, or American History.

8. **Diversity Courses**
   - Global and Cultural Awareness
   - Any course whose purpose is to expose students to a multicultural society or people, possibly within the context of non-introductory study of a foreign language. If this goal is integrated into one or more general education course(s), the three credits may be moved from this category to another general education category.

**General Education Integrated Course Goal**

- Ethical Reasoning and Action
  - This ethical reasoning and action goal may be infused in any of the above categories. These courses should include the ethical implications of issues and situations.
- Information Literacy
  - These courses include the requirement for students to address an information need by locating, evaluating and effectively using in formation.

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

### Programs

#### Allocation Notes: The credit allocation below is consistent with the 1997 NJCC Gen. Ed. Foundation grid.

- **AA**
  - The Associate in Arts (AA) degree requires 33 semester credits hours of general education coursework from among the indicated categories. Individual community colleges may choose to require general education and other credits* in excess of the minimum, and make their own determination about the distribution. (*E.g., Student Success, Studio Arts, Communication, Math-Science-Tech, Social Science, Humanities, History and/or Diversity courses)

- **AS**
  - The Associate in Science (AS) degree requires a minimum of 30 semester credits hours from among the indicated categories, with minimum distributions as shown.

- **Specialized Associate**
  - The specialized associate degrees shall include Applied Associate in Science (AAS), Associate in Fine Arts (AFA) and AS in Nursing. These programs shall require no fewer than 20 semester credit hours of General Education. Not withstanding any articulation agreements, the general education courses should support career preparation. General education coursework in excess of the 12 credits listed should follow the AS distribution limits.

- **Certificate**
  - The Certificate (or Academic Certificate) shall prepare students to read and write effectively. At least one other general education course is required. The Certificate of Achievement (COA) requires no general education courses beyond those that support career education. The Certificate of Completion (COC) is a noncredit certification program, which is not applicable within the general education context.
### 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.

#### Global and Cultural Awareness (GCA)

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ASL 102</td>
<td>American Sign Language II</td>
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<tr>
<td>COM 115</td>
<td>Sports Communication, Identity and Culture</td>
</tr>
<tr>
<td>ENG 103</td>
<td>Survey of World Literature</td>
</tr>
<tr>
<td>ENG 203</td>
<td>Literature by Women</td>
</tr>
<tr>
<td>ENG 213</td>
<td>Non-Western Literature</td>
</tr>
<tr>
<td>ENG 215</td>
<td>Immigrant Voices in American Literature</td>
</tr>
<tr>
<td>GEO 102</td>
<td>Cultural Geography</td>
</tr>
<tr>
<td>HIS 107</td>
<td>African American History</td>
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<tr>
<td>PHI 110</td>
<td>Religions of the World</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Principles of Sociology</td>
</tr>
<tr>
<td>SOC 102</td>
<td>Sociology of the Family</td>
</tr>
<tr>
<td>SOC 104</td>
<td>Social Problems</td>
</tr>
<tr>
<td>SOC 238</td>
<td>Social Minorities &amp; Ethnic Group Relations</td>
</tr>
<tr>
<td>SPA 202</td>
<td>Intermediate Spanish II</td>
</tr>
<tr>
<td>FRE 101</td>
<td>Intro to French</td>
</tr>
<tr>
<td>GER 101</td>
<td>Elementary German I</td>
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<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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<td>HIS 103</td>
<td>History of the United States I</td>
</tr>
<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>World History II</td>
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<tr>
<td>ITA 101</td>
<td>Elementary Italian I</td>
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<td>ITA 102</td>
<td>Elementary Italian II</td>
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<td>MUS 101</td>
<td>Music Appreciation I</td>
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<tr>
<td>MUS 118</td>
<td>American Popular Music</td>
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<td>MUS 121</td>
<td>History of Broadway: American Musical Theatre</td>
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<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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<td>Ethics</td>
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<td>Religions of the World</td>
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<td>PHI 150</td>
<td>Critical Thinking</td>
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<td>Contemporary Moral Issues</td>
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<tr>
<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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<tr>
<td>SPA 102</td>
<td>Elementary Spanish II</td>
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<td>SPA 201</td>
<td>Intermediate Spanish I</td>
</tr>
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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)

<table>
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<tr>
<th>Course</th>
<th>Title</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>
</tr>
<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>
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#### Humanities — Broad-Based (HUP)

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<td>Art Appreciation I</td>
</tr>
<tr>
<td>ART 121</td>
<td>History of Photography</td>
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<tr>
<td>ART 201</td>
<td>Art History I</td>
</tr>
<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>
</tr>
<tr>
<td>ENG 109</td>
<td>Survey of Classical Greek and Roman Literature</td>
</tr>
<tr>
<td>ENG 207</td>
<td>Major British Writers from the Middle Ages to the 17th Century</td>
</tr>
<tr>
<td>ENG 208</td>
<td>Major British Writers from the 18th Century to Present</td>
</tr>
<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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<tr>
<td>ENG 222</td>
<td>The Romantic Era in American Literature</td>
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<tr>
<td>ENG 225</td>
<td>Twentieth Century American Authors</td>
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<tr>
<td>ENG 230</td>
<td>Major American Writers</td>
</tr>
<tr>
<td>ENG 235</td>
<td>American Film Classics</td>
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<td>ENG 236</td>
<td>Contemporary American Film</td>
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<tr>
<td>ENG 241</td>
<td>Survey of African American Literature</td>
</tr>
<tr>
<td>ENG 243</td>
<td>The Freedom Papers: Britain's Other Literary Treasures</td>
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<tr>
<td>MAT 100</td>
<td>Foundations of Mathematics I</td>
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<tr>
<td>MAT 101</td>
<td>Concepts of Mathematics</td>
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<tr>
<td>MAT 102</td>
<td>Survey of Mathematics</td>
</tr>
<tr>
<td>MAT 103</td>
<td>Statistics</td>
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<td>MAT 105</td>
<td>Intermediate Algebra</td>
</tr>
<tr>
<td>MAT 107</td>
<td>Pre-Calculus and Mathematical Analysis</td>
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<td>MAT 108</td>
<td>Calculus I</td>
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<tr>
<td>MAT 110</td>
<td>Algebra and Trigonometry</td>
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<td>MAT 115</td>
<td>College Geometry</td>
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<td>MAT 151</td>
<td>Mathematics for Management</td>
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<td>MAT 152</td>
<td>Applied Calculus</td>
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<td>Foundations of Mathematics II</td>
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<td>MAT 202</td>
<td>Linear Algebra</td>
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<td>MAT 203</td>
<td>Statistics II</td>
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<td>MAT 205</td>
<td>Differential Equations</td>
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<td>MAT 221</td>
<td>Calculus III</td>
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### GENERAL EDUCATION ELECTIVES

#### Science (SKR)

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<tbody>
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<td>BIO 103</td>
<td>Environmental Science: Ecosystems and Man</td>
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<tr>
<td>BIO 104</td>
<td>Environmental Science: Pollution and Solutions</td>
</tr>
<tr>
<td>BIO 105</td>
<td>Anatomy and Physiology I</td>
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<td>BIO 106</td>
<td>Anatomy and Physiology II</td>
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<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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<td>BIO 112</td>
<td>Introduction to Marine Biology</td>
</tr>
<tr>
<td>BIO 113</td>
<td>Economy Botany: Plants and Society</td>
</tr>
<tr>
<td>BIO 116</td>
<td>Animal Science</td>
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<tr>
<td>BIO 140</td>
<td>Science of Nutrition</td>
</tr>
<tr>
<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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<td>CHM 107</td>
<td>Introductory Chemistry</td>
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<tr>
<td>CHM 111</td>
<td>General Chemistry I</td>
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<tr>
<td>CHM 112</td>
<td>General Chemistry II</td>
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<td>Organic Chemistry I</td>
</tr>
<tr>
<td>CHM 202</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>CHM 215</td>
<td>Environmental Chemistry</td>
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<td>PHY 101</td>
<td>Principles of Physical Science I</td>
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<td>PHY 103</td>
<td>General Physics I</td>
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<td>PHY 107</td>
<td>Technical Physics I</td>
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<td>PHY 111</td>
<td>Earth Science: Land and Sea</td>
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<tr>
<td>PHY 112</td>
<td>Earth Science: Air and Space</td>
</tr>
<tr>
<td>PHY 121</td>
<td>Physics for Everyday Life</td>
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<tr>
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<td>Physics I (calculus-based)</td>
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<td>Physics II (calculus-based)</td>
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<td>PHY 203</td>
<td>Physics III (calculus-based)</td>
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<td>PHY 241</td>
<td>Forensic Science</td>
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#### Social Science — Introductory (SHB)

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<tr>
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<td>Introduction to Economics</td>
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<tr>
<td>ECO 101</td>
<td>Principles of Economics I (Macro)</td>
</tr>
<tr>
<td>ECO 102</td>
<td>Principles of Economics II (Micro)</td>
</tr>
<tr>
<td>GEO 102</td>
<td>Cultural Geography</td>
</tr>
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<td>POL 101</td>
<td>American Federal Government</td>
</tr>
<tr>
<td>POL 103</td>
<td>Introduction to Political Science</td>
</tr>
<tr>
<td>PSY 101</td>
<td>General Psychology</td>
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<tr>
<td>PSY 211</td>
<td>Psychology of Human Development</td>
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<tr>
<td>PSY 212</td>
<td>Psychology of the Adolescent</td>
</tr>
<tr>
<td>PSY 213</td>
<td>Child Psychology</td>
</tr>
<tr>
<td>PSY 215</td>
<td>Psychology of Aging</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Principles of Sociology</td>
</tr>
<tr>
<td>SOC 102</td>
<td>Sociology of the Family</td>
</tr>
<tr>
<td>SOC 104</td>
<td>Social Problems</td>
</tr>
<tr>
<td>SOC 110</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>SOC 130</td>
<td>Society, Ethics and Technology</td>
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#### Technological Competency (TC) or Information Literacy (IL)

<table>
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<th>Title</th>
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<tbody>
<tr>
<td>CIS 102</td>
<td>Introduction to Computers</td>
</tr>
<tr>
<td>CIS 110</td>
<td>Fundamentals of Programming</td>
</tr>
<tr>
<td>CSC 101</td>
<td>Introduction to Programming</td>
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#### Written and Oral Communication in English (WOC)

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<td>COM 105</td>
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<td>ENG 101</td>
<td>English Composition I</td>
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<td>ENG 101E</td>
<td>Enhanced English Composition I</td>
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<td>ENG 102</td>
<td>English Composition II</td>
</tr>
<tr>
<td>SPE 101</td>
<td>Oral Communication</td>
</tr>
</tbody>
</table>

Revised 8/2022
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 6 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, B, C; F through K; O; Q through T; W and Y). Dollar amounts for each category, listed on page 6 of this catalog, are accurate through June 30, 2024.

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 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 130 Elements of Healthcare Careers
3 Lecture Hours, 3 Credits

This course will introduce a broad variety of health care professions. Student will be exposed to all levels to the following health occupation clusters: administrative, diagnostic, environmental service, information service/technical, and therapeutic. Elements of Healthcare Careers will allow students to develop skills and information literacy through critical thinking activities, teamwork, collaboration, and a hands-on approach to learning. Career exploration will be pursued through field trips or guest speakers, and career assessments.

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 ENG 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
Prerequisite: ENG 101, ENG 101E, RDG 099 or ENG 104

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
Prerequisite: RDG 099 or ENG 104

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 ENG 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.
impressionism and post-impressionism are included topics. The Renaissance to modern time. Baroque, neoclassicism, realism, effects of social change. 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 ENG 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. DSLR camera is required.

**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 ENG 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.
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 110</td>
<td>Engine Repair</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 111</td>
<td>Heating, Ventilation and Air Conditioning</td>
<td>This course focuses on the principles of the operation and service of climate control systems. Topics include components, testing, diagnosis, charging and repair practices.</td>
</tr>
<tr>
<td>AUT 123</td>
<td>Automotive Electronics</td>
<td>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).</td>
</tr>
<tr>
<td>AUT 135</td>
<td>Manual Transmissions</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 139</td>
<td>Automatic Transmission Systems</td>
<td>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.</td>
</tr>
<tr>
<td>BIO 101</td>
<td>General Biology I</td>
<td>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.</td>
</tr>
<tr>
<td>BIO 102</td>
<td>General Biology II</td>
<td>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.</td>
</tr>
<tr>
<td>BIO 103</td>
<td>Environmental Science: Ecosystems and Man</td>
<td>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.</td>
</tr>
<tr>
<td>BIO 104</td>
<td>Environmental Science: Pollution and Solutions</td>
<td>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.</td>
</tr>
<tr>
<td>BIO 105</td>
<td>Anatomy and Physiology I</td>
<td>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.</td>
</tr>
<tr>
<td>BIO 106</td>
<td>Anatomy and Physiology II</td>
<td>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.</td>
</tr>
<tr>
<td>BIO 107</td>
<td>Human Biology</td>
<td>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.</td>
</tr>
</tbody>
</table>
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 140  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 environments.

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.
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 129 Introduction to Entrepreneurship
3 Lecture Hours, 3 Credits
Prerequisites: RDG 099 or ENG 104

This is a course in which students assess the fundamental skills necessary to start and operate their own businesses. This course is designed for students who are in the early planning stages of entrepreneurship or currently own a business but need some additional tips and concepts to help spur growth and profitability. Combining academics, coaching, mentoring and online resources can be the foundation that entrepreneurial small business owners need to develop a successful enterprise.

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 212 Introduction to International Business
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course is designed to familiarize the student with the environmental forces, economics, currency differences, and cultural aspects of international business.

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 good will are considered.

BUS 224 Social Media Marketing and Web Analytics  
LECTURE/LAB HOURS/CREDITS: 2 Lecture/ 2 Lab Hours/ 3 Credits  
Prerequisite: RDG 099 or ENG 104  
This course provides hands-on instruction on the effective use of social media, online marketing, and social networking. Students learn to use search engine optimization, email marketing, and performance analytics. These tools will position students to construct marketing plans that will increase business visibility and success in the marketplace. This course also provides opportunities for students to obtain highly valued certifications, such as Google Analytics, at no additional cost.

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 234 Small Business Management  
3 lecture hours, 3 credits  
Prerequisites: BUS 231  
Provides complete coverage of small business operations with proper balance between business functions and management functions. Topics include how to obtain financing, how to evaluate a business that is for sale, how to market a small business, how to prepare a business plan as well as how to recognize business problems and develop solutions.

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 – Internship Career Connections  
Students must apply for Internship Career Connections 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 Internship Career Connections  
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 Internship Career Connections 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 an Internship Career Connections.
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. Analytic 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.

CET 215   Foundations of Planning and Environmental Design
3 lecture hours, 3 credits  
Pre-requisite: ENG 101

This course presents an overview of the field of planning as practiced in today’s American Society. Topics include the history and development of planning, the politics of planning, planning analysis and implementation, urban design, collaborative planning and environmental design. Emphasis is placed on the changing trends of planning, including green urbanism, sustainable communities and participatory planning.
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**  Foundations of Computer Graphic Arts  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
Course Fee: B, G

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 103  
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 games 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, completed in a computer lab setting, will be created to support student learning.

**CGA 120**  Introduction to Electronic Publishing and Typography  
2 Lecture Hours, 2 Lab Hours, 3 Credits  
Prerequisite: CGA 103

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. All lecture topics are supported by a lab component.

**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 103 and CGA 118  
Course Fees: B, G

This course introduces advanced techniques for authoring games and interactive design projects. Students learn advanced tools and begin to use professional design tools to design prototype games and interactive products and apply interface design principles. Students utilize a computer lab setting to complete projects that demonstrate the use of the 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 website 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, element 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 infrared spectroscopy, 1H and 13C nuclear magnetic resonance spectroscopy, ultraviolet 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, 1H and 13C nuclear magnetic resonance spectroscopy, ultraviolet spectroscopy, polarimetry and refractometry.

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, G

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 200  Principles of Information Security
3 Lecture, 3 Credits
Prerequisite: RDG 099 or ENG 104

Examines the field of information security to prepare information systems students for their roles as business decision-makers. A balance of the managerial and technical aspects of the discipline is presented. Information security within a real-world context is included in this course.

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.

CIS 251  Web Programming
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: CIS 110 and CIS 151
Course Fees: A, G

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.

CIS 264  Database Applications Development
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: CIS 151 and CIS 210
Course Fees: A, G

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.

CMA – Certified Clinical Medical Assistant

CMA 101  Foundations in Medical Assisting
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course provides Certified Clinical Medical Assistant (CCMA) program students with an introduction to the profession of clinical medical assisting. The course explores the qualifications, duties and the team role of the medical assistant in primary care settings. The course topics focus on healthcare industry professions, medical law and ethics of the profession, multidisciplinary teamwork, professionalism, personal and patient safety and the importance of effective interpersonal communication skills.

CMA 103  Structure of the Human Body I
2 lecture hours, 2 credits
Prerequisite: RDG 099 or ENG 104

This course introduces the medical assistant student to the fundamental structure of the human body. The medical terminology as it applies to each body system along with directional terms are integrated throughout course. Diagnostic procedures, disease and treatments related to the circulatory, lymphatic, integumentary, urinary and immune systems are covered in this course.

CMA 104  Structure of the Human Body II
2 lecture hours, 2 credits
Prerequisites: "C" or better in CMA 103

This course is continuation of Structure of the Human Body I. Students will build upon their understanding of the human body through the integration of terminology, diagnostic procedures, disease and treatments as they relate to endocrine, muscular, nervous, reproductive, and skeletal body systems. Basic medical terminology and legal terms used in the healthcare profession will also be discussed.
CMA 107    Medical Assistants in Practice Lab I
2 lab hours, 1 credit
Prerequisites: RDG 099 or ENG 104
Course requires a final grade of "C" or better to progress in the CCMA program

This course presents fundamental knowledge and skills for the medical assistant. Components of the course include safety in the workplace, patient care skills including history intake, vital signs and professional communication.

CMA 108    Medical Assistants in Practice Lab II
2 lab hours, 1 credit
Prerequisites: "C" or better in CMA 107 and NTR 101
Course requires a final grade of "C" or better to progress in the CCMA program

This course has CCMA Program students gain further skills and competencies that are required for practice. Emphasis is on total care of patient from rooming to discharging a patient in various healthcare environments.

CMA 110    Pharmacology in Medical Assisting
1 Lecture hour, 1 credit
Prerequisites: "C" or better in CMA 101 and CMA 103
Course requires a final grade of "C" or better to progress in the CCMA program
Co-requisite: CMA 104 II

This course provides a study of basic principles of pharmacology as it applies to the medical assistant. Pharmacologic principles and classifications, with attention to specific body systems and medication administration will be discussed. Applicable legal and ethical responsibilities, mathematical systems and dosage calculations as related to the role of the medical assistant will be integrated throughout the course. This course assists students in preparation for the national credentialing exams for entry-level medical assistants.

CMA 114    Medical Assisting Front Office Procedures
2 lecture hours, 2 credits
Prerequisites: "C" or better in CMA 101 and ALH 140
Course requires a final grade of "C" or better to progress in the CCMA program

This course provides students with the knowledge and skills related to the medical office duties of the medical assistant. Course focuses procedures involved in creating and maintaining accurate medical documentation, especially with regards to patient records, procedural and diagnostic coding, insurance claim forms and other healthcare documentation.

CMA 118    Fundamentals of ECG/EKG
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: "C" or better in CMA 101 and CMA 103
Course requires a final grade of "C" or better to progress in the CCMA program
Co-requisites: CMA 104 and CMA 120

This course will provide students the necessary skills to accurately perform an ECG/EKG examination to assess various heart rhythms. The course includes information on anatomy and physiology of the heart, cardiac related disease processes, medical terminology, medical ethics, legal aspects of patient contact, laboratory assisting electrocardiography and echocardiography. Additionally, students will practice with equipment and perform hands on labs including introduction to the function of performing ECG/EKG, proper use of ECG/EKG equipment, proper lead placement and other clinical technician practices. This course assists students in preparation for the national credentialing exams for entry-level medical assistants [Certified EKG Technologist-CET].

CMA 120:    ECG/EKG Clinical
clinical hours, credits 45/1
Co-requisite: CMA 118 Fundamentals of ECG/EKG; CMA 131 CCMA Capstone Experience
Course requires a final grade of "C" or better to progress in the CCMA Program.

This course has CCMA Program students participate in a clinical learning experience at an affiliated learning location. Students will perform ECG/EKG examinations on actual patients in healthcare facilities.

CMA 125    Fundamentals of Phlebotomy
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: "C" or better in CMA 101 and CMA 103
Course requires a final grade of "C" or better to progress in the CCMA Program.
Co-requisites: CMA 104 and CMA 128

This course is designed to prepare students in fundamental 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. This course assists students in preparation for the national credentialing exams for entry-level medical assistants.

CMA 128    Phlebotomy Clinical
45 clinical hours, 1 credit
Co-requisites: CMA 125, CMA 131
Course requires a final grade of "C" or better to progress in the CCMA Program.

This course has CCMA Program students participate in a clinical laboratory structured and supervised learning experience at an affiliated learning location. Students will perform blood draws on actual patients in healthcare facilities.

CMA 131    CCMA Capstone Experience
90 clinical hours, 2 credits
Co-Requisites: CMA 120 and CMA 128

Policies, procedures and practice for the medical assistant will be implemented and evaluated in a clinical learning environment. At the conclusion of the course, the national examination for certification will be administered for those students who qualify.

COM – Communications

COM 104    Business Communications
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104 and ENG 101 or ENG 101E

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.
COM 105  Technical and Scientific Writing
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
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.

COM 106  Essentials of APA Documentation
1 lecture hour, 1 credit
Prerequisite: ENG 101 or ENG 101E
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.

COM 115  Sports Communication, Culture, and Identity
Prerequisite: ENG 101
This course focuses on how race, class, gender, sexuality, and ability are viewed and discussed in athletics and their relationship to athletic performance. Concentrating on examining various areas in the field, the class will address depictions of athletes in the media, equity issues, and consumer behavior, among many other aspects.

COM 140  Internet Research and Communications
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
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.

COM 150  Argumentative and Persuasive Writing
3 lecture hours, 3 credits
Prerequisites: RDG 099 or ENG 104 and ENG 101 or ENG 101E
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.

COM 201  Journalism I
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
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.

COM 205  Feature Writing
3 lecture hours, 3 credits
Prerequisites: COM 201 and ENG 101 or ENG 101E
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.

COM 206  Creative Writing: Nonfiction
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
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.

COM 207  Creative Writing: Fiction
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
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.

COM 208  Creative Writing: Poetry
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E
Students study a variety of poems for their poetic structure and write a series of poems in the narrative, dramatic and lyric forms. Students also share their poems in progress, demonstrating for example, figurative language, sound sequence, meter and stanzaic patterns. They prepare at least three poems for submission to a magazine or literary journal.

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 214  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.

COM 225  Why We Write: Writing for Elementary Students  
3 Lecture Hours, 3 Credits  
Prerequisite: ENG 102  
This course prepares education majors to facilitate the writing workshop approach in the elementary classroom to increase young writers' abilities in the writing crafts. The course will introduce education majors to ways to utilize formative and summative assessment methods to assist struggling writers in their own classroom. Utilizing best practices through mini lessons and conferences, education majors will learn how to assist emerging writers through a writing workshop approach.

COS – Counseling/College Studies  
COS 102:  College and Career Planning  
1 lecture hour, 1 credit  
Catalog Description  
Prerequisite: none  
The purpose of this course is to promote academic success, retention and personal enrichment. The student will explore career options, set meaningful academic and career goals, develop essential skills such as information literacy and health advocacy skills, and engage in academic behaviors and study strategies that will help the student communicate effectively for personal and professional success.

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, SOC 104  
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.
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.

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.

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.

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.

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.

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.

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 216: Objects and Data Abstraction using Java
3 lecture hours, 3 lab hours, 4 credits
Catalog Description
Prerequisites: CSC 210 Object Oriented Programming in Java or permission from the Dean of STEM

This course includes object-oriented programming using classes, objects, inheritance leading to data abstraction with emphasis on software engineering principles. Topics covered are Interfaces, Lambda expressions, Exception handling, Graphical User Interface programming, Files, Input/output streams, UML classes and diagramming, generic collections, recursion, threads, and the use of related APIs.

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.

CSC 225 Programming in R
1 Lecture Hours, 2 Lab Hours, 2 Credits: 1/2/2
Prerequisites: MAT 103 and (CSC 111 or CIS 110) or permission from the Dean STEM

This course offers extensive example-based instruction covering practical issues for statistical programming in R. This project intensive course explores R programming and use of R for data analysis. All lecture topics are supported by a lab component.

DATA - Data Analytics

DATA 101: Data Science I
2 Lecture Hours, 2 Lab Hours, 3 Credits
Prerequisite: MAT 050, MAT 051, MAT 100 or equivalent and ENG 104 or ENG 101

This course provides students with data literacy skills in order to understand techniques in data manipulation, visualization and interpretation. This project-based course will allow students to utilize a toolkit of statistical software to perform data science methods. All lecture topics are supported by a lab component.

DATA 106: Introduction to Data Science
2 Lecture Hours, 2 Lab Hours, 3 Credits
Prerequisite: MAT 050, MAT 051, MAT 100 or equivalent and ENG 104

Introduction to Data Science will provide students with data literacy skills in order to understand techniques in data manipulation, visualization and interpretation. This project-based course will allow students to utilize a toolkit of statistical software to perform data science methods. All lecture topics are supported by a lab component.

DATA 301: Research Methods and Ethical Issues in Data Analysis
3 Lecture Hours, 3 Credits
Prerequisite: MAT 103

This course introduces students to the scientific method of inquiry. Students will gain an understanding of the principles and procedures of the scientific process of investigation and various methodologies of data collection and analysis. Students will learn to read and summarize published research, to critically analyze and evaluate research findings, and recognize ethical concerns associated with research. This course prepares students to develop their own research project.

DFT – Drafting and Design

DFT 103 CAD 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 CAD 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 CAD 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.

DFT 233 AutoCAD Programming and Customization
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: DFT 113 or equivalent
Course Fees: B, G

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.

DMS – Diagnostic Medical Sonography

DMS 101 Introduction to Medical Imaging
1 lecture hour, 1 credit
Prerequisites: Admission to Medical Imaging

Program Fee: $1,500

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.
Abdominal Sonography I
2 lecture hours, 2 credits
Prerequisite: DMS 113
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.

Abdominal Sonography II
2 lecture hours, 2 credits
Prerequisite: DMS 105
Course Fee: J
This course expands clinical applications pertaining to the organs and structures of the abdomen. The spleen, retroperitoneum, aorta and other abdominal organs are presented.

Cross-Sectional Anatomy I
2 lecture hours, 2 credits
Prerequisites: BIO 105 and BIO 106
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.

Ultrasound Physics I
2 lecture hours, 2 credits
Prerequisites: “C” or higher in DMS 101, BIO 105, PHY 103
Pre or Co-requisites: BIO 106 and ALH 104
Program Fee: $1,500
This course will explore concepts of ultrasound physics. Acoustical variables such as frequency, amplitude, power, intensity, wavelength and speed will be studied. The properties of pulsed waves will be introduced relative to pulse duration, pulse length, pulse repetition, duty factor, intensities, interaction and range equation. This course will also investigate transducers, sound beams, display modes, two-dimensional imaging, real time imaging and image storage.

Introduction to Clinical Practicum and Scan Lab (10 weeks)
8 clinical hours per week, 1.25 scan lab hours per week, 2 credits
Prerequisites: ALH 104, “C” or higher in BIO 105, BIO 106
Pre or Co-requisites: ALH 102, DMS 113
This course will expose the students to the internal workings of an imaging department. The student will begin to develop ultrasound skills in a diagnostic imaging department. Activities developing practice skills will take place in the campus scan lab and in hospital or outpatient imaging centers.

Sonographic Interpretation and Techniques I
2 lecture hours, 2 credits
Prerequisite: DMS 105
Program Fee: $1,500
Presentations by faculty and physicians of actual ultrasound cases followed by discussion of identified structures and pathology highlight this course. Review of cross-sectional anatomy as applied to actual scans is covered. Patient diagnosis and follow-up are emphasized.

Sonographic Interpretation and Techniques II
2 lecture hours, 2 credits
Prerequisite: DMS 201
The major portion of this course is devoted to presentations by students of ultrasound applications that they have used in the clinical setting. Students must demonstrate scans that they performed, explaining the findings that were identified. The critique of scans will be used to strengthen student scanning skills and analysis.

Clinical Practicum I
30 lab hours, 3 credits
Prerequisites: “C” or higher in DMS 105 and DMS 126
Pre or Co-requisites: DMS 106, DMS 201, DMS 209
Program Fee: $1,500
Students are introduced to their clinical sites and receive hands-on instruction in diagnostic medical sonography techniques.

Clinical Practicum II
30 lab hours, 3 credits
Prerequisite: DMS 203
Students continue to develop their skills in diagnostic medical sonography techniques.

Clinical Practicum III
30 lab hours, 1 credit
Prerequisite: DMS 204
Students receive hands-on experience to reinforce instruction in diagnostic medical sonography techniques.

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.

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 sonographic evaluation. Normal and abnormal anatomy and physiology, instrumentation set-up, patient preparation, proper scanning technique and normal and abnormal findings are presented.

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.
**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 higher  
A study of the American economic system with a focus on macroeconomics. Topics studied 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:** MAT 105 or higher  
The study of economics with emphasis on microeconomics. Consideration is given to the 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 credit  
**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 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 207  Foundational Practices: Supporting Children using the Positive Behavioral Supports System**  
3 lecture Hours, 3 credits  
**Prerequisite:** PSY 101  
This course is defined to provide educators from various settings with a variety of theoretical approaches in behavior support of students. Students will follow an individual support plan and participate in multi-tiered class-wide and individual plan to support all students. Candidates will also have the opportunity to demonstrate competencies related to positive behavior intervention supports through a variety of opportunities.

**EDU 215  Principles and Pedagogies in the Inclusive Classroom**  
2 lecture hour, 2 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  
1 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.

EDU 218  Introduction to Trauma Informed Practices to Promote Social Emotional Development in Educational Settings  
Lecture Hours/Credits: 3/3  
Prerequisite: PSY 101  
The purpose of this course is to provide an introduction of trauma-informed practices in educational settings that support the social emotional development of all students. Students will begin to explore various methods of trauma informed practices, that includes social emotional development, and how to address systemically through whole school initiatives, individual classrooms, and across content areas.

EDU 220  Foundations of Inclusive Education  
3 lecture hours, 3 credits  
Co-Requisite/Prerequisite: EDU 130  
This course is an introduction to the foundations of inclusive education. Students will be asked to critically examine teaching and schooling, with an emphasis on identifying effective approaches to supporting the meaningful participation and learning of diverse students. Students will develop a research-based educational philosophy in which they articulate their plan for creating inclusive classroom environments. This course requires a field experience component.

EMG – Emergency Management  
EMG 101  Introduction to Emergency Management and Homeland Security  
3 lecture hours, 3 credits  
Prerequisite/Co-requisite: RDG 099 or ENG 104  
This course will focus on a comprehensive overview of the discipline of emergency management and homeland security. Attention to mitigation, preparedness, response and recovery will be emphasized. Past disasters will be analyzed as to the impact on policy formation up to and including current FEMA practices. Emergency management will be discussed as it applies to role, duty and ethical issues.

EMG 105  Planning for Emergencies  
3 lecture hours, 3 credits  
Prerequisite/Co-requisite: RDG 099 or ENG 104  
Planning for Emergencies will focus on the measures necessary to prepare for an emergency. This course will cover the key terms used in emergency planning and the differences in man-made and natural disasters. It will also demonstrate various ways of strategizing to mitigate, plan for and recover from man-made and natural disasters.

EMG 201  Incident Command: Theory and Practice  
3 lecture hours, 3 credits  
Prerequisite: EMG 101  
This course will focus on the Incident Command Systems fundamentals, incident/event assessment, unified command structures, incident resource management, planning processes, demobilization and close out. The course will also emphasize the different stages in which the incident command can expand and retract depending on the complexity of the incident.

EMG 205  Global Catastrophes  
3 lecture hours, 3 credits  
Prerequisite: EMG 105  
This course will focus on the impact of natural and technological disasters around the world from a global perspective. It will focus on global, national, regional and local events such as hurricanes, droughts, disease outbreaks, nuclear disasters and earthquakes. The course will also examine the social, geographical and cultural factors that put people at risk before, during and after disastrous events. Using case studies, students will explore how vulnerable social groups are affected by and cope with hazardous conditions and events.

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 hours, 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 101E

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 101E

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 cannon.

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 226  Contemporary American Film
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This course presents a survey of the American film industry with attention also to the language of the literature.

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  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.

ENG 248 LGBTQ+ Authors and Filmmakers
3 Lecture Hours, 3 Credits
Prerequisite: ENG101

This survey course will examine a wide assortment of literature and films created by LGBTQ+ writers and artists. The readings and viewings will place an emphasis on intersectionality and diversity. Course materials may include fiction, non-fiction, poetry, plays, documentaries, and other genres.

ENR – Engineering Science

ENG 102 First Year 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.

ENG 103 First Year 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.

ENG 108 Digital Electronics for Engineers
2 lecture hours, 2 lab hours, 3 credits
Pre-requisite: MAT 107

This is an introductory course in digital Electronics in which the basic concepts in digital electronics will be covered to include binary systems, Boolean algebra, binary arithmetic, basic logic gates, combinational logic circuits analysis and design, flip-flops, sequential circuits analysis and design, digital to analog and analog to digital conversions. Completion of a term project will be required. Laboratory work supports lecture topics.

ENG 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.

ENG 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.

ENG 207 Engineering Materials
2 lecture hours, 2 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.

ENG 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.

ENG 212 Mechanics of Materials
3 lecture hours, 3 credits
Prerequisite: 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.
ENVS – Environmental Science

ENVS 101 Environmental Science
Lecture Hours/Lab Hours/Credits: 3/3/4
Prerequisite: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104

This course is designed as an introductory course in the fundamental concepts of environmental science. Throughout the course students will examine the impact of human activities on the Earth's ecosystems, specifically focusing on the science behind the major environmental issues of today including climate change, resource/energy consumption, and pollution. Students will also be introduced to the basics of scientific inquiry, including the use of the scientific method, data analysis, and critical thinking. All lecture topics are supported by a lab component.

ENVS 110 Physical Geology
Lecture Hours/Lab Hours/Credits: 3/3/4
Prerequisite: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104

Physical Geology covers the nature and origin of the land and water features of the earth, including studies available concerning the oceans and their floors, with a view to providing an understanding of why our land looks as it does and the conflicts between natural change and man's use of the land and seas. All lecture topics are supported by a lab component.

ENVS 201 Research Methods and Data Analysis
Lecture Hours/Lab Hours/Credits: 2/2/4
Prerequisite: MAT-103 and BIO-101 or ENVS-101

This course is designed to focus on the process of science, specifically fostering the student's independent use of scientific method/hypothesis testing. Emphasis is placed on developing valid sample approaches, experimental design and data analysis. A variety of a parametric and non-parametric statistical approach will be covered. Students will be trained to think and approach questions like a scientist which will help students success in any future endeavors, whether they are directly scientific or not. Computer software will be used regularly to manipulate and analyze data and present results. All lecture topics are supported by a lab component.

ELECT – Engineering Technology

ETEC 107 Circuits I
2 Lecture Hours, 2 Lab Hours, 3 Credits
Prerequisite(s): ENG 104 or RDG 099 and MAT-50

Students learn the concepts of DC theory, single phase AC and three phase AC, ladder diagrams and components found in an industrial electrical circuit. In the laboratory students will develop the necessary skills to use test equipment to troubleshoot an electrical circuit.

ETEC 218 Programmable Logic Controllers
2 Lecture Hours, 2 Lab Hours, 3 Credits
Prerequisite(s): IT 111 or permission of instructor

The Allen Bradley SLC 500 series PLC is used to provide students with an understanding of PLC programming instructions. This course contains laboratory sections on programmable logic controllers.

ETEC 240 Pneumatics and Hydraulic Automation
3 Lecture Hours, 3 Lab Hours, 4 Credits
Pre or Corequisite: ETEC-218 Programmable Logic Controller or permission of the instructor

Hydraulic principles, types of hydraulic fluids and their characteristics are covered. Describes components of the hydraulic system and their functions, including filters and strainers, reservoirs and accumulators, pumps, piping, tubing and hoses, control valves, and actuating devices. Covers a variety of operating principles of reciprocating, positive displacement, rotary and dynamic air compressors. Covers primary and secondary air treatment. Includes valves, logic devices, cylinders, and air motors. This course contains laboratory sections on pneumatics and hydraulic automation.

FRE – French

FRE 101 Elementary French 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 French. Oral and written exercises, reading of easy prose and dictation are the points of departure.

GEO – Geography

GEO 102 Cultural Geography
3 Lecture Hours, 3 Credits
Prerequisite: 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.

GEO 115 Introduction to Geographic Information Systems
2 Lecture Hours, 2 Lab Hours, 3 Credits
Prerequisite: RDG 099 or ENG 104

This course provides an introduction to the fundamentals of Geographic Information Systems (GIS). The course includes an introduction to basic cartographic principles including maps, scales, coordinate systems and map projections. A review of the necessary hardware and software elements used in GIS will be made including raster and vector based data structures. Applications of GIS technology used in science, business and government will also be presented. Laboratory exercises support lecture topics.
**GER – German**

**GER 101  Elementary German 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 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  
*Prerequisite: 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  
*Prerequisite: 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  
*Prerequisite: 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  
*Prerequisite: 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 105  World History I**
3 lecture hours, 3 credits  
*Prerequisite: RDG 099 or ENG 104*

This course is a survey 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 106  World History II**
3 lecture hours, 3 credits  
*Prerequisite: RDG 099 or ENG 104*

This course is a survey 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 – Health, Physical Education and Recreation**

**HPE 100  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 skill components of the CPR module will be awarded the American Heart Association’s Basic Life Support for Healthcare Providers card.

**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 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.
HPE 106  **Health and 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 122  **Fundamentals of Health & Physical Education**
1 lecture hour, 1 credit  
**Prerequisite:** RDG 099 or ENG 104

Students in this course are introduced to the profession of teaching Health and Physical Education. Specific emphasis is placed on teaching skills, student behaviors, and the classroom environment that address pupil outcomes. These outcomes are aligned with the New Jersey Student Learning Standards for Comprehensive Health and Physical Education. These elements are discussed, analyzed and practiced through the principles of learning communities. Students explore the roles and responsibilities of teachers through the study of professional literature, class discussions and activities; simulation exercises.

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 170  **Stress Management**
3 lecture hours, 3 credits  
**Prerequisite:** RDG 099 or ENG 104

This course focuses on stress and the impact it has on a person’s health. Students will examine the relationship of the physiological, psychological and social factors which contribute to one’s general stress balance. Stress management techniques and life skills to combat the negative impact of stress will be developed.

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 214 | Principles Health & Physical Education
Lecture Hours/Credits: 3/3
Prerequisite: ENG 104 or ENG 101 or ENG 101E

This course is an introduction to the foundational philosophies, dispositions, pedagogy, and core educational practices in K-12 health and physical education. Students will be asked to critically examine professional ethics and culturally competent practices in health and physical education; and demonstrate knowledge of the varied physical activity opportunities that support the development of physically literate individuals and college and career readiness. Emphasis will be placed on identifying effective approaches needed, in K-12 health and physical education to support meaningful participation and learning of diverse populations of learners.

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 238 | Principles of Coaching
2 lecture hours, 2 credits

This course provides the basic principles and modern techniques of coaching. Attention is devoted to various philosophies of coaching for all levels of competitive sports.

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 257 | Pedagogy and Instructional Practices in Health and Physical Education
3 Lecture Hours, 3 Credits
Prerequisite: HPE 214 Principles of Health and Physical Education

This course orient students wishing to enter the profession of teaching Health and Physical Education. This course will prepare students on planning and instruction principles and managing classroom environments, in order to maximize student learning outcomes that address the New Jersey Core Curriculum Content Standards for Comprehensive Health and Physical Education.
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.

HPE 265 Fitness Assessment and Exercise Prescription
3 lecture hours, 3 credits
Prerequisites: BIO 105, BIO 106, HPE 104 and RDG 099 or ENG 104

This course is designed to provide the student with a foundation of exercise testing and prescription. The many parameters of fitness are investigated, including their measurement, interpretation of results and application toward recommendations for exercise programs. The topical areas include cardiorespiratory fitness, muscular strength and endurance, flexibility, body composition and performance/athletic components. A portion of this course will require students to validate concepts learned through practical applications.

HPE 270 Essentials of Personal Training
2 lab hours, 1 credit
Pre- or Co-Requisite: BIO 106; HPE 265

This course prepares the student in the processes, theories, and application of personal training through a variety of laboratory and hands-on activities. The information covered will allow students to properly assess clients, demonstrate proper exercise technique, and develop individualized exercise programs. At the end of the course, students will have the opportunity to take a nationally-recognized personal training certification exam.

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.

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
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 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 to review math skills 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.

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.
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 203 Statistics II  
3 lecture hours, 3 credits  
Prerequisite: MAT 103

Provides additional research tools and techniques. Topics include testing the difference between mean, variances, and proportions; f-test; chi-square test; ANOVA; linear and multiple regression; correlation; and non-parametric tests. Statistical tests will be presented in the context of basic research techniques.

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.
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.

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.

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.

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.

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.

This course examines the central role of popular music in American life, assessing its importance as both a musical and social phenomenon. It traces the chronological development of popular music as a broad family of styles and genres. The course not only analyzes ways in which popular music has changed over the last two hundred years, but also addresses why it changed, situating musical styles and developments within a rich historical context that includes issues of race, gender, and class.

This course gives students the opportunity to evaluate and compare a variety of musics 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.

This course is organized topically, not chronologically, and is not limited to major in music. The course covers tonal harmony, develops 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.
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.
Program Fee: $1,500

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
Program Fee: $1,500

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
Program 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.

**NTR 105 Introduction to Nutrition Professions**  
3 lecture hours, 3 credits  
**Prerequisite:** RDG 099 or ENG 104

This course introduces students to the profession of nutrition and dietetics and to the competencies necessary to be an effective professional and leader in the health care field. Students will explore a variety of career opportunities in nutrition and dietetics. During the semester students will be required to complete twenty professional development hours - examples of which would either be attendance at professional meetings or volunteer activities such as in food banks or food pantries.

Information on competencies and credentialing in the field of nutrition and dietetics, including the path to become a Registered Dietitian (RD), will be reviewed. Principles of effective leadership will be introduced.

NURS – Nursing

**NURS 102 Dosage Calculations for Nurses**  
1 Lecture Hour, 1 Credit  
**Pre-requisite:** 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.

**NURS 105 Introduction to Nursing Informatics**  
1 Lecture Hour, 1 Credit  
**Prerequisite:** RDG 099 or ENG 104 and NURS 110 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 healthcare to ensure safe and quality care. Electronic Health Records (EHR), telehealth, personal reference management software, Evidence-Based Practice (EBP), and HIPAA will be emphasized.

**NURS 107 Pharmacology for Health Professionals**  
3 Lecture Hours, 3 Credits  
**Prerequisite:** BIO 106

This course introduces students to the principles of pharmacology. 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.

**NURS 110 Nursing I**  
4 lecture hours, 90 clinical hours, 6 credits  
**Prerequisites:** RDG 099 or ENG 104  
**Co-requisites and Prerequisites:** BIO 105, PSY 101, ENG 101, ENG 101E  
**Co-requisite:** NURS 111  
**Program Fee:** $1,500

This course serves as the foundation for health and wellness promotion and disease prevention in beginning nursing practice. Focus will be on the concepts related to health across the lifespan, and an introduction in the delivery of competent, quality, safe patient centered care. Concepts from pharmacology, nutrition, pathophysiology, and safety across the lifespan are utilized to provide care in a variety of healthcare settings. Clinical experiences occur in a variety of health care settings.

**NURS 111 Nursing I Lab**  
2.5 lab hours, 1 credit  
**Prerequisites:** RDG 099 or ENG 104  
**Co-requisites and Prerequisites:** BIO 105, PSY 101, ENG 101, ENG 101E  
**Co-requisite:** NURS 110  
**Program Fee:** G

This course focuses on health and physical assessment across the lifespan, and basic clinical nursing skills. Development of knowledge, skills and attitudes for beginning nursing practice will be integrated. Laboratory exercises incorporate real world situational experience with healthcare professionals on the College campus.

**NURS 115 LPN to RN Track**  
3 lecture hours, 3 credits  
**Prerequisites – Acceptance into the Nursing Program. AND BIO 105, PSY 101, ENG 101/ENG 101E**

This course introduces the Licensed Practical Nurse (LPN) to the role of the registered professional nurse (RN) 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 in addition to teamwork, collaboration, and effective communication. 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 technology utilized within RCSJ and the Nursing Program. NOTE: Upon successful completion of NURS 115 LPN-RN students will matriculate into generic track.

**NURS 120 Nursing II**  
6 lecture Hours, 135 clinical hours, 9 credits  
**Prerequisites:** NURS 110 & NURS 111  
**Co-requisites and Prerequisites:** BIO 106, ENG 102  
**Co-requisite:** NURS 121  
**Program Fee:** $1,500

This course builds on previously acquired knowledge and learned behaviors of health, wellness promotion and disease prevention. Students will implement evidence-based practice to provide safe and effective care to adults and childbearing and childrearing families. Concepts from pharmacology, nutrition, pathophysiology, and safety across the lifespan are utilized to provide care in a variety of healthcare settings. Clinical experiences occur in a variety of health care settings.
NURS 121 Nursing II Lab
2.5 lab hours, 1 credit
Prerequisites: NURS 110 & NURS 111
Co-requisites and Prerequisites: BIO 106, ENG 102
Co-requisite: NURS 120
Program Fee: $G

This course builds on acquired knowledge and learned behaviors and requires the demonstration of clinical nursing skills necessary for student progression. Laboratory exercises incorporate real world situational experience with healthcare professionals on the College campus.

NURS 126 Nursing Reflections
2 lecture hours, 2 credits
Prerequisite: Completion of at least one semester of nursing education or permission of the Dean of Nursing and Health Professions

This course is required for the student nurse who has experienced a 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 (NURS) courses. All activities will take place on the College campus.

NURS 210 Nursing Global Issues and Trends
2 lecture hours, 2 credits
Prerequisites: NURS 120, NURS 121, BIO 106, ENG 102

This course focuses on current nursing issues and trends with a global perspective. Topics include the evolution of nursing practice, leadership strategies, and clinical decision-making skills based on ethical and legal principles of care.

NURS 230 Nursing III
4 lecture hours, 180 clinical hours, 8 credits
Co-requisite and Prerequisite: BIO 215
Co-requisite: NURS 231 – Nursing III Lab
Program Fee: $1,500

This course builds on previously acquired knowledge and learned behaviors of health, wellness promotion, and disease prevention. Students will collaborate with a variety of healthcare team members to provide safe and effective care to patients across the lifespan and includes an emphasis on mental and behavioral well-being. Concepts from pharmacology, nutrition, pathophysiology, and safety across the lifespan are incorporated to provide care in a variety of healthcare settings. Clinical experiences occur in a variety of health care settings.

NURS 231 Nursing III Lab
2.5 lab hours, 1 credit
Co-requisite and Prerequisite: BIO 215
Co-requisite: NURS 230 – Nursing III
Program Fee: $G

This course focuses on the performance of complex advanced nursing skills necessary for student progression. The expansion of knowledge and behaviors is integrated. Laboratory exercises incorporate real world situational experience with healthcare professionals on the College campus.

NURS 240 Nursing IV
5 lecture hours, 90 clinical hours, 7 credits
Co-requisite and Prerequisite: NURS 230, NURS 231
Program Fee: $1,500

This course incorporates all concepts of previously acquired knowledge and learned behaviors of health, wellness promotion, and clinical activities are in a variety of healthcare settings.

NURS 245 Transition to Practice
2 lecture hours, 90 clinical hours, 4 credits
Prerequisites: NURS 240
Course Fee: Cost of HESI Exit exam and curriculum review course

This course focuses on integration of knowledge, continued development of clinical judgment and life-long learning. It 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.

PHI – Philosophy

PHI 101 Introduction to Philosophy
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. 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 focuses 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.
This course is a continuation of Physics (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 or Co-requisite: 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
Prerequisite or Co-requisite: PLG 101

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
Prerequisite or Co-requisite: PLG 101

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.
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.

POL 120 Public Administration
3 lecture hours, 3 credits

Prerequisites: EN 060

An examination of the relationships between government and business, and contemporary theories of leadership practices and principles.

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 200 Understanding Addictive Behavior
3 lecture hours, 3 credits

Prerequisite: PSY 101

This course inspects the causes, symptoms, and effects of addictive behavior. Students will examine the history, social and environmental contexts, and treatment of addictive behavior. Topics include classification and action of psychoactive drugs, the neurochemistry of chemical dependence and process/behavioral addictions, and their effects on the mental, physical, and spiritual domains of individuals and families.

PSY 206 Psychopharmacology
3 lecture hours, 3 credits

Prerequisite: PSY 206

This course is an overview of pharmacology in relationship to addictions and their effect on the human body. Alcohol and drugs of abuse and addiction and how they affect behavior will be examined. Specific topics to be discussed include the classification of medications; legal and ethical principles regarding clinical drug trials and the FDA approval process; legalities of drug trafficking; acute and chronic effects; reversible and irreversible consequences functional disorders of the nervous system; neurobehavioral dysfunctions and other multi-sided aspects of addiction. A special emphasis will be placed on culture, ethnic and age-related considerations. This course will provide an understanding of the role of pharmacology in the counseling fie
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 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  
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: I  
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: I  
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  
Program Fee: $1,500  
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/client 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  
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  
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, Program Fee: $1,500  
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 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 201  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 202  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 203  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.

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 103  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 104  Cultural Anthropology
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course is an introduction to the complexity of human life and anthropologist’s view of the essential aspects of culture. The course stresses the variety of ways that human groups have organized their societies as alternatives for solving common human problems.
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  
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 216  Death & Dying**  
3 lecture hours, 3 credits  
Prerequisite: SOC 101  
A sociological and psychological exploration of issues surrounding death and bereavement such as grief, funerals, euthanasia, suicide and the dying patient.

**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 disposition including related social agencies.

**SOC 222  Alcohol & Drug Field Work**  
1 lecture hour, 90 clinical hours, 3 credits  
Prerequisites: SOC 101, PSY 200, PSY 206  
Fieldwork I is designed to give the student a veridical understanding of alcohol and drug practice. Students volunteer at various local drug and alcohol agencies*. The focus is on addiction as a disease as well as environmental contributions to the addiction. The effects on the individual and family will be covered in addition to other support systems for those affected by addictions. A LCADC (License Certified Alcohol and Drug Counselor) at the agency directs and monitors the students’ activities 90 hours during the semester.

*90 hours of field experience required.

**SOC 227  Introduction to Gerontology**  
3 lecture hours, 3 credits  
Prerequisites: ENG 104 or RDG 099, SOC 101  
This course delineates the realities of aging through the comprehensive exploration of the social, psychological and physiological issues associates with the aging process. For each topic discussed, the developmental stages of early, middle, late and their various characteristics are explored, as they impact upon the ethos of aging in the US.

**SOC 235  Social Psychological Counseling**  
3 lecture hours, 3 credits  
Prerequisite: SOC 101  
This course is designed to introduce students to techniques as well as methods of recording commonly used in agency practice. In addition, an overview of normal and abnormal growth and development will be stressed with practical application from clients in field experiences case materials drawn from the Council of Social Work Education materials, including case work, group work, and community organization methods.

**SOC 238  Social Minorities & Intergroup Relations**  
3 lecture hours, 3 credits  
Prerequisite: SOC 101  
This course provides a study of prejudice, discrimination, and the relations between and within different cultural and racial groups in the US.

**SOC 240  Human Behavior in the Social Environment I**  
3 lecture hours, 3 credits  
Prerequisite: SOC 101  
An introduction to biological and social science concepts of human development and social functioning necessary for the practice of social work.

**SOC 241  Human Behavior in the Social Environment II**  
3 lecture hours, 3 credits  
Prerequisite SOC 240  
An examination of the manner in which macro systems in the social environment affect human behavior, with a focus on populations at risk and community empowerment.

**SOC 250  Social Service Field Work I**  
1 lecture hour, 90 Co-op hours, 3 credits  
Prerequisites: SOC 101, SOC 104  
Field Work I is designed to give the student a veridical understanding of social work practice. Students are assigned to various local social services agencies.

*90 hours of field experience is required.

**SOC 251  Social Service Field Work II**  
1 lecture hour, 90 Co-op hours, 3 credits  
Prerequisites: SOC 101, SOC 104, SOC 235, SOC 240, SOC 250  
Field Work II is continuation of Field Work I and is designed to build upon the skills learned from Field Work I. Students will complete their Portfolio that began in Field Work I as a capstone project. Students are assigned to various local social service agencies. A pre-assigned person at the local agency directs and monitors the student’s activities eight (8) hours each week during the semester to complete 90 hours for the semester.

**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.

THR 205 Introduction to Theatre and Dance
2 lecture hours, 2 studio hours, 3 credits

This course introduces current and historical examples of theatre and dance with emphasis on the distinguishing characteristics of each form of performance and on the principles of temporal composition common to all linear or abstract performing art. The course stresses the fundamentals of interpretation and analysis essential to advanced work in performance, design and criticism.

THR 208 Experiencing Acting
2 lecture hours, 2 studio hours, 3 credits

This course is for students interested in exploring their acting talents. Using improvisation, theatre games and scene projects, students examine how actors strengthen and use imagination, awareness and creativity, and learn to analyze, prepare and perform a role.

THR 210 Advanced Ballet
2 lecture hours, 2 studio hours, 3 credits

This course is designed for students with sufficient technical training in ballet fundamentals to continue their development at the intermediate-advanced level. Advanced Ballet includes barre and centre floor, and it continues to build on the elements of the classical ballet.

THR 211 Acting Workshop III
2 lecture hours, 2 studio hours, 3 credits
Prerequisite: THR 112 with a minimum grade of “D-”

This course details preparation and practice in the progression of performance and character analysis, a variety of acting approaches, and honed vocal and physical control. In-class presentations of selected works are conducted.

THR 212 Acting Workshop IV
2 lecture hours, 2 studio hours, 3 credits
Prerequisite: THR 211 with a minimum grade of “D-”

This is a practical course that allows students to build self-confidence in the areas of character development, acting techniques and freedom in voice and movement. Presentations of various self-selected works are conducted.
VETT – Veterinary Technology

VETT 101: Introduction to Veterinary Technology
3 Lecture Hours, 3 Credits
Prerequisite: Acceptance into the Veterinary Technology Program

This course is designed to acquaint the student with the profession of veterinary technology and the role of the veterinary healthcare team in animal and public health. Veterinary office procedures, including veterinary medical record-keeping, veterinary client-patient relationship (VCPR), and breed/species identification will be discussed. This course will also include medical and veterinary terminology, fundamental legal concepts, and state veterinary practice acts.

VETT 105: Anatomy and Physiology of Domestic Animals I
3 Lecture Hours, 3 Lab Hours, 3 Credits
Pre- or Co-Requisite: VETT 101

This course is designed to instruct veterinary technician students in the anatomy and physiology of common structures of small, food/fiber, laboratory, and exotic animals compare and contrast the structural and functional differences among various species. Students apply appropriate medical terminology to describe anatomical structures and their corresponding physiology relative to the animal’s position. This course will focus on the integumentary, skeletal, muscular, nervous, and endocrine systems. The laboratory will correlate with lecture material and will help to visualize these concepts. Organ systems include the integumentary, skeletal, muscular, nervous, and endocrine systems.

VETT 106: Anatomy and Physiology of Domestic Animals II
3 Lecture Hours, 3 Lab Hours, 4 Credits
Prerequisite: VETT 105

This course is designed to instruct veterinary technician students in the anatomy and physiology of common structures of small, food/fiber, laboratory, and exotic animals compare and contrast the structural and functional differences among various species. Students apply appropriate medical terminology to describe anatomical structures and their corresponding physiology relative to the animal’s position. This course will focus on the cardiovascular, respiratory, digestive, urinary, reproductive, and immune systems. The laboratory will correlate with lecture material and will help to visualize these concepts. Organ systems include the cardiovascular, respiratory, digestive, urinary, reproductive, and immune systems.

VETT 110: Veterinary Pharmacology
Lecture Hours/Credits: 3/3
Prerequisite: MAT 101, VETT 101

This course studies the principles and practices related to veterinary pharmacology. It will explore the most commonly used classes of drugs, the applications to each body system, medication calculations (including fluid therapy and constant rate infusions), and the record-keeping responsibilities involved in handling and dispensing medications, including controlled substances.

VETT 115: Animal Behavior and Restraint
Lecture Hours/Credits: 3/3
Prerequisite: Acceptance into the Veterinary Technology Program
Pre or Corequisite: VETT 101

This course covers veterinary examination room techniques and teaches patient stabilization and restraint, emphasizing preserving the safety of the patient and veterinary health care team. Discussion topics will include canine and feline behavior, training, learning, behavior modification, perception, communication, and genetic influences on behavior.

VETT 201: Small Animal Medicine & Nursing Care
2 Lecture Hours, 2 Clinical Hours, 4 Credits
Prerequisite: VETT 115

This course is designed to provide the student with essential knowledge of companion animals’ common diseases. Students will learn about nutrition, preventative care, standard vaccinations and diseases, zoonotic disease, clinical signs, diagnostic tests, and appropriate interventions. Technical skill topics that will be applied in the clinical setting include routine patient care, inpatient monitoring, medication administration, vascular access, fluid, and oxygen therapy, urinary catheterization, recumbent patient care, and client education. The student will learn to use veterinary nursing care plans to develop critical thinking when caring for patients.

VETT 205: Large Animal Medicine & Nursing Care
2 Lecture Hours, 2 Clinical Hours, 4 Credits
Prerequisite: VETT 115

The student will be able to provide safe, humane, and effective monitoring and nursing interventions (such as venipuncture, fluid therapy, medication administration, blood pressure measurement, ECG, bandaging) for large animals. Additionally, students will be able to obtain patient history, provide client education, and perform physical examinations on large animals in the clinical setting. Learning large animal diseases and the role of the credentialed veterinary technician will provide them with the knowledge and skills that are needed in clinical practice.

VETT 210: Veterinary Laboratory Procedures I
3 Lecture Hours, 3 Lab Hours, 4 Credits
Prerequisite: VETT 105

This lecture is designed to introduce the veterinary technician student to the principles of clinical chemistry, hematology, urinalysis, and parasitology. Topics include common parasites and their life cycles, hematology, and the hematopoietic system, emphasizing normal blood smears and common changes seen during disease states of domestic animals. The lab is for the reinforcement and application of laboratory procedures and principles taught in Veterinary Laboratory Procedures I.

VETT 211: Veterinary Laboratory Procedures II
3 Lecture Hours, 3 Lab Hours, 4 Credits
Prerequisite: VETT 210

This lecture serves as a continuation of Veterinary Laboratory Procedures I. It is designed to acquaint the student with the principles of bone marrow samples, cytology, biopsy, blood chemistries, endocrinology, serology, and microbiology. The lab provides experience in the clinical application of the techniques discussed in Animal Laboratory Procedures II in the areas of immunology, clinical chemistry, cytology, veterinary microbiology, coagulation testing, and abnormal and comparative hematology.
VETT 220: Laboratory and Exotic Medicine and Nursing Care  
2 Lecture Hours, 2 Clinical Hours, 4 Credits  
Prerequisite: VETT 115

This course is designed to acquaint the student with laboratory and exotic pet husbandry fundamentals, nutrition, common diseases, zoonotic disease medicine, and treatment. In a clinical setting, students will be able to discuss the recommended diet and habitat for each species covered as well as restraint and treatment techniques, common diseases and zoonotic concerns for pet owners and the veterinary health care team.

VETT 225: Veterinary Diagnostic Imaging & Dentistry  
3 Lecture Hours, 3 Credits  
Prerequisite: VETT 105

Fundamental diagnostic imaging concepts will be discussed, including patient positioning, film processing, digital imaging, radiographic technique, and radiation safety procedures. Other imaging technologies that will be addressed include endoscopy, ultrasound, fluoroscopy, MRI, CT scan, and nuclear scintigraphy. The second half of this course serves as an introduction to the fundamental techniques of veterinary dentistry used by veterinary technicians. Discussions will focus on learning and applying techniques in preventive care, periodontics, endodontics, orthodontics, and dental radiology appropriate for veterinary technicians. The student will acquire knowledge of dental diseases, diagnostic techniques, and therapeutic techniques and equipment.

VETT 230: Veterinary Surgical Nursing & Anesthesia  
3 Lecture Hours, 3 Credits  
Prerequisite: VETT 110, VETT 105  
Co-Requisite: VETT 105

This course is designed to acquaint the student with standard surgical procedures, principles of asepsis, maintenance of the surgical environment, operating room conduct, surgical instrument identification, care and processing, and patient surgical preparation. The student will learn to work collaboratively to develop a balanced anesthetic protocol and implement a multimodal analgesic plan to improve patient care. Topics include maintenance and troubleshooting of anesthetic equipment, maintenance of a patent airway, patient monitoring during all stages of anesthesia, responding appropriately to changes in patient status, ongoing assessment for appropriate angesia, and client education to ensure the well-being of the patient and efficacy/safety of the medication or anesthetic procedure.

VETT 235: Veterinary Emergency Medicine  
3 Lecture Hours, 3 Credits  
Prerequisite: VETT 110, VETT 201

This course is designed to acquaint the student with veterinary emergency and critical care medicine fundamentals and techniques appropriate for veterinary technicians. The student will learn to identify an emergency, assess, and monitor patient status, properly administer medications, fluids, oxygen, and blood products, identify equipment required for emergency and critical care patients, and assist in those specialized procedures. The importance of evidence-based cardiopulmonary resuscitation (CPR) techniques will be stressed.

VETT 240: Veterinary Professional Leadership Seminar & VTNE Prep  
3 Lecture Hours, 3 Credits  
Prerequisite: VETT 106, 110, 210, 225, 230  
Co-Requisite: VETT 225, 230

This course prepares the student to move into the profession of veterinary technology. Topics include professional development, communication (verbal, non-verbal, and active listening), leadership, career options, resume writing, effective job-seeking techniques, and assistance in Veterinary Technician National Exam (VTNE) preparation. The course also provides information on self-care, work-life balance, burnout, and compassion fatigue.

WIND – Wind Power

WIND-101: Offshore Safety and Survival  
3 Lecture Hours, 3 Lab Hours, 4 Credits

The Offshore Safety and Survival course covers safe working practices for the offshore industry, especially for working with offshore wind turbines. The course discusses the basic and advanced-level safety issues, examines case studies in rescue and first aid, and identifies skill sets needed for activities such as climbing, blade repair, handling of fire, identification of hazards, and manual handling. Laboratory work will include Offshore Safety and Survival practices and regulations.

WIND-105: Corrosion Management and Control  
3 Lecture Hours, 3 Credits

This course examines fundamental principles behind the corrosion of structures and discusses best practices in corrosion control and its management.

WIND-110: Wind Power Technology  
3 Lecture Hours, 3 Lab Hours, 4 Credits  
Prerequisite(s): ETEC-240 Pneumatic and Hydraulic Automation

This course is designed to provide the operational and electrical skills required for an entry-level technical position in the global wind industry. Wind Power Technology will equip individuals with the knowledge and skills required for assembling, installing and/or repairing wind energy projects of different scales, from small commercial and municipal turbines to utility-scale wind farms located offshore. Themes include: Project Operations, Turbine Fundamentals, Cranes & Rigging, Fasteners & Torquing, Shaft Alignment and Bonding, Grounding and Lightning Protection systems. Laboratory work will include technical processes.

WIND-115: Wind Power Operations and Maintenance  
3 Lecture Hours, 3 Lab Hours, 4 Credits  
Prerequisite(s): ETEC-240 Pneumatic and Hydraulic Automation

This course is designed to provide the operational and mechanical skills required for an entry-level technical position in the global wind industry. It will also provide individuals with the knowledge and skills required for the operation and maintenance of wind energy projects. From small commercial and municipal turbines to utility-scale wind farms located offshore or land-based. Laboratory work will include maintenance operation, cooling/heating systems, and programmable logic controllers.

WIND-120: Power Transmission in Offshore Environments  
3 Lecture Hours, 3 Lab Hours, 4 Credits  
Prerequisite: WIND-110 Wind Power Technology

This course identifies key components of infrastructure needed to transport offshore generated power to onshore locations. These components include offshore cables (HVDC and HVAC), offshore substations, electrical transformers, and power controlling and protection devices. The course also examines monitoring practices and maintenance needs associated with each of these components and identifies some of their common failures and related corrective/preventative maintenance strategies. The economics of offshore power generation and transportation are briefly discussed. Laboratory work will include working with HVDC and HVAC cables, electrical transformers, and power-controlling devices.
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 internship opportunities are being developed to enhance work experience and career potential.

3+1 Eligible Programs

- Applied Professional Communications — Arts and Sciences: Communication Option (A.A.)
- Criminal Justice — Criminal Justice (A.S.)
- Data Analytics — Business Administration (A.S.) or Computer information Systems (A.S.) or Computer Science (A.S.)
- Emergency Management Criminal Justice — Criminal Justice (A.S.)
- Exercise Science — Exercise Science (A.S.)
- Business Administration: Global Business Leadership — Business Administration (A.S.)
- Inclusive Education — Education (A.S.)
- Nursing — Nursing Generic Program (A.S.)
- Psychology — Psychology (A.S.)
- Radio, Television & Film — Arts and Sciences: Radio, Television & Film Option (A.A.)

For more information, please visit RCSJ.edu/gc/3plus1.

WIND-125: Data and Command Center Management

Syllabus
3 Lecture Hours, 3 Lab Hours, 4 Credits
Prerequisite(s): WIND-110 Wind Power Technology

This course examines the importance of condition monitoring and its application to offshore wind turbines. Topics include the gathering and analysis of condition monitoring data, the technical and financial rationales behind maintenance decisions, and the significance of the Data and Command Center where all such work is carried out. Also included are the structure of a Data and Command Center, the jobs and roles associated with it, and its importance in offshore wind turbine management and maintenance. Data privacy and security-related issues are also discussed. Laboratory work will include data monitoring and data analysis.

Third Year (Advanced Studies) Course Descriptions:

Course work for 3+1 students only.

Applied Professional Communications

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 300</td>
<td>Publication, Layout and Design</td>
<td>3 Lecture Hours, 3 Credits</td>
<td>Communications Options Degree</td>
</tr>
<tr>
<td>COM 305</td>
<td>Writing Research and Technology</td>
<td>3 Lecture Hours, 3 Credits</td>
<td>Communications Options Degree</td>
</tr>
<tr>
<td>COM 324</td>
<td>Introduction to New Media</td>
<td>3 Lecture, 4 Studio hours, 3 Credits</td>
<td>Communications Options Degree</td>
</tr>
<tr>
<td>COM 334</td>
<td>Digital Media and Techniques</td>
<td>1 Lecture, 4 Studio hours, 3 Credits</td>
<td>Communications Options Degree</td>
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This course focuses on design, layout, and make-up of brochures, magazine and newspaper pages, newsletters, flyers, and advertisements. Students will learn how to coordinate art and typography with content. A workshop approach is used to show students how creativity in design can increase the effectiveness of communication. Students learn how to work with various computer applications to achieve effective layout.

Introduction to New Media surveys emerging digital communication and entertainment media and teaches new media from the perspective of the producer. Students will discuss the evolution, social and historical implications, and production of media forms with an emphasis on social networking, user generated and other web media.

This is a studio class that will balance the theory and practice of computer art and design. The primary digital tool for this course will be the Adobe Creative Suite, but this is not solely a “learn software” class. The concepts and methodologies learned in this class will enable the students to express themselves in digital media. Student collaboration will be mixed with hands-on instructor training and demonstrations. Course assignments will build upon recently learned skills and tie in with visual literacy and design principles. Through project completion students will explore brainstorming, design process, troubleshooting, presentation and critique. The intent of this course is to develop a basic foundation upon which all further design development of Graphic Design in all its forms, print, interactive, environmental, and motion, can be built. The introduction of an essential design vocabulary and its implementation in various exploratory processes, are a main focus.
Business

**BUS 300 Applied Organizational Behavior**  
Lecture Hours/Credits: 3/3

This course examines human relations in management. The course studies the concern for both task and process in the light of structure, goals and human relationships found in organized efforts. It also covers the application of new management theories in the areas of motivation, leadership and group problem-solving by a variety of means, including presentation, case studies, and role playing.

**BUS 304 Issues in Business: Directed Research**  
Lecture Hours/Credits: 3/3  
Prerequisite: ENG 102 - English Composition II

This upper-division course focuses on the current issues and trends in business as found in the business media. The course is designed to allow students to explore areas of personal interest through the collection of research and the presentation of such material in written and spoken formats.

**BUS 308 Applied Human Resource Management II**  
Lecture Hours/Credits: 3/3

Catalog Description

This course will provide an overview of human resource management (HRM). HRM is a fundamental component of the competitiveness, effectiveness, and sustainability of any organization, as it influences who is hired, how they are trained, evaluated, retained and compensated. Throughout the course, we will focus on the role of managers and how they can develop and implement effective and efficient human resource practices that support the strategic objectives of their firms. We will focus on the everyday human resource decisions made by all managers (e.g., selection, evaluation, compensation, termination).

**BUS 310 Business Logistics**  
Lecture Hours/Credits: 3/3  
Prerequisite: BUS 221- Principles of Marketing

This course focuses on the logistics of physical distribution and supply chains. Topics include traffic routing, inventory analysis and control, warehousing, location of production and storage facilities, and transportation.

Data Analytics

**CIS 300 Advanced Database Technologies**  
3 Lecture Hours, 3 Credits  
Prerequisite: Advanced Studies Degree requiring AS in Business Administration or Computer Information Systems or Computer Science

This course covers the practical aspects of relational database systems, including database modeling using ER and EER diagrams, physical database design, the relational database query language SQL, normal forms, database integrity and transaction management. Includes a project involving an RDBMS.

**SCI 301 Research Methods and Ethical Issues in Data Analysis**  
3 Lecture Hours, 3 Credits  
Prerequisite: MAT 103

This course introduces students to scientific methods for conducting meaningful inquiry and data analysis. Students will gain an understanding of the scientific research process including developing research questions and designing analytical studies to answer research questions. The course includes an overview of the important concepts of data collection and data management as well as ethical considerations for data analysts in each aspect of the research process.

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.

Criminal Justice

**CRJ 281 Criminal Justice Internship**  
1 lecture hour, 3 credits  
Prerequisites: This course is for Criminal Justice majors 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)

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.

**CRJ 301 Drugs and Crime in America**  
3 lecture hours, 3 credits  
Prerequisites: ENG 102 or equivalent

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.
Teacher candidates will learn how to select, administer, and analyze EDU 305 required. Various developmental levels, instructional needs, interests, and pedagogy of literacy instruction in culturally and linguistically diverse students that posit the literacy teacher as a reflective practitioner with a focus literacy to comprehension of narrative and expository discourse and in the 21st century. The course addresses both the theory and pedagogy of literacy instruction. Topics range from emergent literacy to comprehensive of narrative and expository discourse and address reading and writing instruction that engages students in the K-5 classroom. This course has a particular focus on designing literacy instruction for culturally and linguistically diverse students. This course explores the broadening nature of literacy and literacy instruction in the 21st century. The course addresses both the theory and pedagogy of literacy instruction. Topics range from emergent literacy to comprehension of narrative and expository discourse and address reading and writing instruction that engages students in the K-5 classroom. This course has a particular focus on designing literacy instruction for culturally and linguistically diverse students that positions the literacy teacher as a reflective practitioner with a focus on teaching for social justice. This course prepares teacher candidates to provide differentiated literacy instruction in diverse classrooms with a wide range of developmental levels, instructional needs, interests, and backgrounds. Teacher candidates will learn how to select, administer, and analyze various assessment tools to inform instruction. Field experience is required.

**Education**

**EDU 301** Literacy Pedagogy I
3 Lecture Hours, 3 credits
Prerequisite: AS Education Degree
This course explores the broadening nature of literacy and literacy instruction in the 21st century. The course addresses both the theory and pedagogy of literacy instruction. Topics range from emergent literacy to comprehension of narrative and expository discourse and address reading and writing instruction that engages students in the K-5 classroom. This course has a particular focus on designing literacy instruction for culturally and linguistically diverse students that positions the literacy teacher as a reflective practitioner with a focus on teaching for social justice.

**EDU 302** Literacy Pedagogy II
2 lecture hours, 2 credits
Prerequisite: EDU 301
This course prepares teacher candidates to provide differentiated literacy instruction in diverse classrooms with a wide range of developmental levels, instructional needs, interests, and backgrounds. Teacher candidates will learn how to select, administer, and analyze various assessment tools to inform instruction. Field experience is required.

**EDU 305** Current Policy & Practice in ESL and Bilingual Education
3 lecture hours, 3 credits
Prerequisite: AS Education Degree
This course addresses foundational theories and areas of research related to the field of TESOL and bilingual education. Special emphasis is placed on the forces affecting students and policies related to second language schooling in state, national, and international contexts. Students will develop a reflective philosophy for educating English Language learners.

**EDU 310** Differentiating Instruction in the Inclusive Classroom
2 lecture hours, 2 credits
Prerequisite: AS Education Degree
This Junior Level (300) course will focus on how the diverse needs of individuals with educational disabilities/ differences can be met within the general education classroom environment. Emphasis will be on developing communication/collaboration, instructional and assessment strategies that will assist the classroom teacher in diversifying instruction to meet individual needs.

**EDU 315** Working with Families and Communities
3 lecture hours, 3 credits
Prerequisite: AS Education degree
This course is designed to heighten inclusive teacher candidates’ awareness of the roles that family and community have on a child’s success in school. The course situates students’ communities and families from an asset-based perspective, demonstrating that all children must be understood in the context of their community environment, including their families, schools, communities, and the wider society. Students will also develop skills in working effectively with diverse families in the learning community, in order to provide positive educational outcomes for children in inclusive settings.

**EDU 318** Positive Behavior Support Systems
2 lecture hours, 2 credits
Prerequisite: AS Education degree
This course exposes teacher candidates to a variety of theoretical approaches in behavior support of students. Students will develop an individual support plan and explore multi-tiered class-wide and school-wide behavior support systems to support all students. Teacher candidates will also have the opportunity to develop and demonstrate competencies related to positive behavior intervention supports in conjunction with a required field experience component.

**EDU 320** Clinical Experience I in Inclusive Education
1 clinical hour, 1 credit
Prerequisite: AS Education degree
This 1 credit Clinical Experience field-based course requires approximately 1 day a week in the field and focuses on inclusive pedagogy, including: differentiating instruction, implementing principles of Universal Design for Learning and adapting curriculum and classroom environments to support diverse learners in inclusive settings. The course is designed to align with the program goals of the BA in Inclusive Education and to accompany EDU 310: Differentiating Instruction in the Inclusive Classroom. Students develop the skills and have the opportunity to implement their skills in the field to support a wide range of learners, collaborate with cooperating teachers, as well as support school-based professionals and families. They learn to implement content-rich interdisciplinary learning experiences which address the learning needs of all students, utilizing a strengths-based perspective to differentiate and adapt instruction for individual learners. The program prepares students to create communities of learning based on social justice and culturally relevant pedagogical practice. The Inclusive Clinical Experience will be designed to present students with opportunities to focus on the practice they are developing in Differentiated Instruction. This course is a required course in the B.A. in Inclusive Education program, Elementary Education specialization (K-6).

**EDU 323** Assessment in Special and Inclusive Education
3 lecture hours, 3 credits
Prerequisite: AS Education degree
This course emphasizes linking assessment with educational instruction in inclusive and special education. Prospective classroom teachers will learn how to routinely utilize formal and informal assessments to support all students in various inclusive settings. Teacher candidates will also have the opportunity to develop and demonstrate competencies related to assessment in conjunction with a required field experience component.
**EDU 327 Clinical Experience II in Inclusive Education**

1 clinical hour, 1 credit  
**Prerequisite:** AS Education degree

This 1 credit Clinical Experience field-based course requires approximately 2 days a week in the field and focuses on inclusive pedagogy, including: differentiating instruction across content areas, with a particular focus on Social Studies and Science, implementing principles of Universal Design for Learning and adapting curriculum and classroom environments to support diverse learners in inclusive settings. The course is designed to align with the program goals of the BA in Inclusive Education and to accompany EDU 335: Social Studies Methods for the Inclusive Classroom and EDU 340: Science Inquiry and Methods for the Inclusive Classroom. Students build on the skills they have been developing in coursework and through EDU 320: Clinical Experience I in Inclusive education and have the opportunity to implement their skills in the field to support a wide range of learners, collaborate with cooperating teachers, school-based professionals, and families. This course is a required course in the B.A. in Inclusive Education program, Elementary Education specialization (K-6).

**EDU 330 Trauma Informed Practices to Promote Social Emotional Development Educational Settings**

3 lecture hours, 3 credits  
**Prerequisite:** AS Education degree

The purpose of this course is to provide future educators, professionals, and administrators in P-12 and higher educational settings with an overview of trauma-informed practices in educational settings, that support the social emotional development of all students. Students will explore the core tenets of trauma-informed practices, that includes social emotional development, and how to address systemically through whole school initiatives, individual classrooms, and across content areas. Students will also learn how to implement and evaluate these practices.

**EDU 335 Social Studies Methods for the Inclusive Classroom**

3 lecture hours, 3 credits  
**Prerequisite:** AS Education degree

The course focuses on engaging prospective teachers in inclusive social studies pedagogy in the K-6 inclusive elementary classroom. The course will equip students with instructional models that will prepare them to teach history and social sciences integrated with other subjects in the inclusive elementary classroom. This course will emphasize how prospective teachers might build inclusive social studies assessments using standards from the National Council for Social Studies and the Common Core State Standards. This course is a required course for students enrolled in the B.A. in Inclusive Education major.

**EDU 340 Science Inquiry & Methods for the Inclusive Classroom**

3 lecture hours, 3 credits  
**Prerequisite:** AS Education degree

This course focuses on assessment practices in science education and developing instructional strategies for teaching science content as a means for achieving scientific literacy and understanding scientific inquiry. Candidates will explore strands of science including Nature of Science, Science as Inquiry, and Science Outreach and Resources, as well as Technology & Engineering for Elementary teaching. Candidates will be exposed to a variety of high leverage practices and science curricula with an emphasis on integrated instruction in a community context and meeting the unique needs of all learners.

**EDU 345 Mathematics Strategies in the Inclusive Classroom**

2 lecture hours, 2 credits  
**Prerequisite:** AS Education degree

This course is designed to help teacher candidates prepare to teach mathematics in diverse, inclusive elementary classrooms. In order to do that, this course will focus on teaching through inquiry and problem solving, using appropriate interventions, and shaping the learning environment. The co-requisite STREAM practicum/clinical experience should be considered a laboratory for this course, where teacher candidates observe, reflect, question, and make connections to what is discussed in class in terms of both content and pedagogy.

**Emergency Management Option**

**EMG 300 Critical Infrastructure**

3 lecture hours, 3 credits  
**Prerequisite:** 201

This course introduces student to the methods and approaches to protecting critical infrastructure a means of effectively protecting people, physical entities, and cyber systems and the establishment of an effective incident command operation. Moreover, students will examine vulnerability rise reduction strategies, contingency planning, and strategic partnership models as they are applied to the critical infrastructure sectors. Course topics include risk management team crisis communication, and public and private sector roles and relationships in emergency management.

**EMG 305 Natural and Technological Hazards: Migration and Response**

3 lecture hours, 3 credits  
**Prerequisite:** EMG 201

Emergency management at its core, encompasses the recognition and management of natural disasters, technological disasters, and Na-Tech (hybrid) disasters. This course examines different types of natural disaster and integrates perspectives on risk, vulnerability, resilience, and migration planning through an examination of natural and technological hazards, including earthquakes, tsunamis, volcanoes, floods, landslides, hurricanes, tornadoes, wildfires, climate change, and a host of technological and human-induced hazards. Moreover, this class is needed to underscore the basic tenants of emergency management as a set of diverse response to various emergencies from the federal, state and local perspectives, the management of mass casualties, and ways to rebuild more resilient communities following a disaster.

**EMG 309 Emergency Operations and Business Continuity**

3 lecture hours, 3 credits  
**Catalog Description**  
**Prerequisite:** EMG 201

This course addresses the issues involved in continuing organizational operations when businesses, schools, governments, nonprofit organizations, etc. are faced with a catastrophic disaster. While it is estimated that nearly 43 percent of organizations impacted by disaster and crisis will never reopen and 51 percent will fall within two years, it is important to understand the underlying mechanisms that enhance a business’ opportunity to bounce back after a crisis. This course provides a step-by-step approach to the development of a comprehensive emergency management (disaster) plan for organizations. It applied to the manufacturing companies, corporate officers, retailers, utilities, government agencies, or any organizations where people work or gather. The course will provide the opportunity for students to gain exposure to empirical and authoritative data and research form specialist in the respected discipline areas. This course provides and analysis of the players involved; coordination with governmental emergency management; legal requirements, employee disaster awareness and preparedness; disaster mitigation, and response; business resumption considerations and public policy considerations and community outreach.

**Exercise Science**

**HPE 300 Kinesiology**

3 lecture hours, 3 credits  
**Prerequisite:** C or Higher in BIO 105 and BIO 106

This course provides the student with an understanding of human movement from an anatomical, physiological, and mechanical perspective. Emphasis will be placed on application of these principles to fundamental movement and physical education activity.
Nursing

NUR 303  Comprehensive Health Assessment
3 lecture hours, 3 credits
Prerequisites: Graduation from an accredited school of nursing. Registered Nurse license in good standing.
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.

NUR 305  Nursing Informatics
3 lecture hours, 3 credits
Prerequisites: Graduation from an accredited school of nursing. Registered Nurse license in good standing.
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.

NUR 308  Topics in Healthcare Ethics
3 lecture hours, 3 credits
Prerequisites: Graduation from an accredited school of nursing. Registered Nurse license in good standing.
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 300  Introduction to Sport and Exercise Psychology
3 lecture hours, 3 credits
Prerequisite: PSY 101
This course examines theories and models of psychology and how they relate to human performance. Topics include personality, exercise environments, motivation, and arousal. Stress and anxiety, group processes, leadership and psychological well-being and their impact on sport and exercise is also discussed.

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 306  Statistics in Psychology
3 Lecture Hours, 3 Credits
Pre or Corequisite PSY 305
This course focuses on the many statistical procedures used in psychological research. Students will learn to select and calculate appropriate procedures to analyze both quantitative and qualitative data. They will gain an understanding of how to select and perform descriptive, correlational, and inferential procedures. There will also be emphasis throughout the course on learning to use statistical software.

PSY 308  Social Psychology of Sport
3 lecture hours, 3 credits
Prerequisite: PSY 101 and PSY 300
This course examines issues related to athletic performance based on theoretical perspectives and current research addressing the impact of social concepts on sport and exercise. Topics include relationships in sport, team cohesion, group dynamics, effective communication, coach's impact on leadership, motivational climates and athletic transition.

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.

PSY 315  Research Methods in Psychology
3 Lecture Hours, 3 Credits
Prerequisite: PSY 306
This course addresses research design and methodologies for data collection in psychological research. Observation, correlational, and experimental techniques are studied. Ethical conduct in research and responsible interpretation of research results are also addressed.
On-campus University Partnerships

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)

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.