Addendum
Gloucester Campus 2022-2023
Academic Catalog

After the time of publication, modifications were made to the Academic Calendar.

<table>
<thead>
<tr>
<th>Winter Semester 2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/5 ........ M .... First Day of Winter Session A</td>
</tr>
<tr>
<td>12/12 ........ M .... First Day of Winter Session B</td>
</tr>
<tr>
<td>12/26-1/2 .......... Gloucester Campus Holiday</td>
</tr>
<tr>
<td>12/22-1/3 .......... Cumberland Campus Holiday</td>
</tr>
<tr>
<td>1/6 ........... F .... End of Winter Session A</td>
</tr>
<tr>
<td>1/10 .......... T .... End of Winter Session B</td>
</tr>
</tbody>
</table>

After the time of publication, it was noted a course was missing from the Physical Therapist Assistant, AAS degree on page 71.

SECOND YEAR — Spring Semester

- PTA 229 Clinical Experience II, 6cr

Full program on the next pages.

Addendum printed February 2023.
NURSING AND HEALTH PROFESSIONS

[ASS-PTA; CIP Code 51.0806]
Associate in Applied Science (A.A.S.) — Career
The Physical Therapist Assistant program prepares the physical therapist assistant (PTA) to provide physical therapy interventions and components of therapeutic measurement under the direction and supervision of a licensed physical therapist.

Program Information
• Upon graduation from the PTA program, students will be eligible to take the National Physical Therapy Examination for Physical Therapist Assistants to determine competence for licensure application and thus will be able to work in a variety of patient settings. Students receive acceptance into the program once, yearly, for the Spring semester. Petitions for entry into the program will be made available to students during the preceding Spring/Summer semester.
• PTA technical coursework begins during the Spring semester and concludes with two six-week, full-time clinical affiliations in the subsequent Spring semester, just prior to graduating in May. Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course pre-requisites. HPE 106 is a PTA required course available to program participants only.

Program Goals
1. To provide a safe, nurturing environment for the enhancement of academic and clinical learning through provision of instruction from a qualified faculty of physical therapy educators and clinicians who are committed to experiences that translate into the safe, effective and ethical treatment of patients through the use of PT interventions which follow the principles of evidence-based practice
2. To provide the effective resources and mentorship for program graduates to be successful takers of the NPTE for PTAs, then seek and obtain gainful employment after graduation
3. To graduate knowledgeable entry-level professional physical therapist assistants who are well-versed in the PTA’s point of entry into the patient/client management model and who continue to value life-long learning and commitment to the surrounding community far beyond graduation from the program

RCSJ.edu

Physical Therapist Assistant, A.A.S.

Program Requirements

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

Expected Student Outcomes
At the completion of the Physical Therapist Assistant program, a graduate will:
1. Qualify to take the National Physical Therapy Examination for Physical Therapist Assistants
2. Demonstrate behavior consistent with the PTA’s established core values of accountability, altruism, compassion and caring, cultural competence, duty, integrity and social responsibility
3. Work within the scope of practice as defined by the physical therapy licensing act and all pertaining laws and regulations of the state of practice
4. Use sound judgment for evidence-informed decision making through critical thinking and problem solving
5. Identify career development and lifelong learning opportunities
6. Exhibit professional behaviors in the role as a responsible physical therapist assistant by providing safe, ethical and legal care

Extended Learning Opportunities
Program Information
• Upon graduation from the PTA program, students will be eligible to take the National Physical Therapy Examination for Physical Therapist Assistants to determine competence for licensure application and thus will be able to work in a variety of patient settings. Students receive acceptance into the program once, yearly, for the Spring semester. Petitions for entry into the program will be made available to students during the preceding Spring/Summer semester.
• PTA technical coursework begins during the Spring semester and concludes with two six-week, full-time clinical affiliations in the subsequent Spring semester, just prior to graduating in May. Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course pre-requisites. HPE 106 is a PTA required course available to program participants only.

Program Goals
1. To provide a safe, nurturing environment for the enhancement of academic and clinical learning through provision of instruction from a qualified faculty of physical therapy educators and clinicians who are committed to experiences that translate into the safe, effective and ethical treatment of patients through the use of PT interventions which follow the principles of evidence-based practice
2. To provide the effective resources and mentorship for program graduates to be successful takers of the NPTE for PTAs, then seek and obtain gainful employment after graduation
3. To graduate knowledgeable entry-level 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

RCSJ.edu
Physical Therapist Assistant continued

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 Health and Wellness Promotion in Physical Therapy or any PTA courses. Please contact the Enrollment Services office for an admission packet.

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

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

Admission Requirements

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

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

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

Program Notes

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

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

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.
Rowan College of South Jersey and Rowan University have formed an innovative, premier 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 any of the following pathways to obtain their bachelor's degree:

<table>
<thead>
<tr>
<th>Pathway</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3+1</td>
<td>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 Rowan College tuition and fees. Only available to select majors.</td>
</tr>
<tr>
<td>Rowan Partnerships Online</td>
<td>Earn your Bachelor's degree fully online from one the nation's top universities and NJ's number one community college. Save thousands on your education without sacrificing convenience or quality. Only available to select majors.</td>
</tr>
<tr>
<td>Degree Completion</td>
<td>Graduates of Rowan College have the opportunity to earn their bachelor's degree at a discounted rate from Rowan University. Students complete their final two years online via Rowan Global. Only available to select majors.</td>
</tr>
<tr>
<td>Rowan Choice</td>
<td>Live on Rowan University's campus and earn up to 60 credits through Rowan College. Courses are taught by Rowan College professors at both RCSJ and Rowan University. Available to all majors.</td>
</tr>
<tr>
<td>Traditional Transfer</td>
<td>Complete your associate degree at Rowan College and transfer to Rowan University for your bachelor's degree. Available to all majors.</td>
</tr>
</tbody>
</table>

For additional information visit: RCSJ.edu/RU
### Academic Calendar 2022-2023

#### Fall Semester 2021
- 9/5: Labor Day College Holiday
- 9/6: First Day of Weekday Classes 15, 7A, 5A
- 9/10: First Day of Saturday Classes
- 10/7: End 5A Classes
- 10/10: Start 10 and 5B Classes
- 10/19: Professional Development Day, no classes before 4 p.m.
- 10/25: End 7A Classes
- 10/31: Start 7B Classes
- 11/11: End 5B Classes
- 11/14: Start 5C Classes
- 11/23: No classes after 4 p.m.
- 11/24: Thanksgiving College Holiday
- 11/25: College Holiday
- 11/26: No Classes
- 12/10: End of Saturday Classes
- 12/16: End of Weekday Classes 15, 10, 7B, 5C

#### Winter Semester 2023
- 12/5: First Day of Winter Session A
- 12/12: First Day of Winter Session B
- 12/23-31: College Holiday
- 1/6: End of Winter Session A
- 1/10: End of Winter Session B

#### Spring Semester 2023
- 1/17: First Day of Weekday Classes 15, 7A, 5A
- 1/21: First Day of Saturday Classes
- 2/15: Professional Development Day – No Classes
- 2/17: End 5A Classes
- 2/20: Start 10 and 5B classes
- 3/3: End 7A Classes
- 3/13-17: Spring Break
- 3/20: Start 7B Classes
- 3/31: End 5B Classes
- 4/3: Start 5C Classes
- 4/7: College Holiday
- 4/10: Cumberland Campus Holiday
- 4/29: Saturday Classes End
- 5/4: End of Weekday Classes 15, 10, 7B, 5C
- 5/11: Commencement

#### Summer Semester 2023
- 5/15: Start of Summer Classes 15, 7A, 5A
- 5/29: Memorial Day Holiday
- 6/15: End 5A Classes
- 6/19: Start 5B Classes
- 6/29: End 7A Classes
- 7/4: Independence Day
- 7/10: Start 7B Classes
- 7/20: End 5B Classes
- 7/24: Start 5C Classes
- 8/23: Last Day of Summer Classes 15, 7B, 5C

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### Welcome to Rowan College of South Jersey

Here at Rowan College of South Jersey (RCSJ), student success – your success – is at the heart of our mission. Whether this is your first college experience, or you are resuming your education after a break, RCSJ is proud to offer affordable and accessible educational opportunities, supported by a robust internship program, allowing for exploration of available options to facilitate finding your vocation. The College’s strong partnerships offer students exclusive benefits, support and savings. As a premier partner of Rowan University, students have access to innovative, cost-cutting programs like Rowan 3+1, Rowan Choice and Rowan Partnerships Online. The College’s new premier partnership with healthcare giant, Inspira Health, provides priority clinical experience to support nursing, behavioral and health sciences students, propelling local talent into healthcare careers.

This year, academic divisions are evolving and expanding with the creation of the Division of Behavioral Sciences and Law & Social Justice. The College continues to add to its 100+ degree and certificate offerings, with new programs in Electrical Engineering Technology, Entrepreneurship, Nutrition and an additional 3+1 eligible major in Applied Professional Communications, giving you more options to find your fit.

With one of the lowest tuition rates in New Jersey, RCSJ is an excellent place to discover your passions and increase your opportunities. Whether you attend full or part time, the College offers a host of grants, financial aid, work study and payment plan options – along with more than $1 million available in annual scholarships – to keep a quality education within reach.

RCSJ has something to offer all learners, no matter your objective, no matter your age, no matter your current financial situation. Education is the key to a quality of life change, with no time like the present to set your sight on a professional credential, pursue a hands-on trade or earn a degree to advance your higher education plans.

Apply to RCSJ and find your fit – seize the opportunity to learn something new and forge a unique path to the future of your choice.

Frederick Keating, Ed.D.
President

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**Frederick Keating, Ed.D.**

**President**

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**ROWAN COLLEGE OF SOUTH JERSEY** Gloucester Campus 2022-2023 Catalog | 3
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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
Darlene Barber, Director
Donna Pearson, Deputy Director
Douglas Albrecht, Education Liaison
George Castellini
Carol Musso
Antonio Romeo
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Yolanda Garcia Balicki, Esq.
Douglas J. Wills, Esq.
Frederick Keating, Ed.D., ex officio

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 2022-23 Rowan College of South Jersey Gloucester Academic Catalog is accurate at the date of publication in September 2022 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@caahep.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 Business Administration, AS, Accounting, AAS, Digital Marketing, AAS and Human Resource Management, AS Programs 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 2022.

<table>
<thead>
<tr>
<th>TUITION</th>
<th>ADDITIONAL FEES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gloucester and Cumberland County residents</td>
<td>Late Registration Fee (full- or part-time) 20.00</td>
</tr>
<tr>
<td>Out-of-county residents¹</td>
<td>Graduation Fee 65.00</td>
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<tr>
<td>High School Option (HSOP)</td>
<td>Late Payment Fee 30.00</td>
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<tr>
<td>High School Dual Option</td>
<td>Payment Plan Fee 40.00</td>
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<td>Partnership Agreements</td>
<td>Returned Check Fee = plus 30.00</td>
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<tr>
<td>Senior Citizen Discount</td>
<td>Stop and Reissue Check Fee = plus 30.00</td>
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<tr>
<td></td>
<td>Reissue Check fee = plus 30.00</td>
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<tr>
<td></td>
<td>Reissue NMT Badge Fee =</td>
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<tr>
<td></td>
<td>ID card Replacement Fee 10.00</td>
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<tr>
<td></td>
<td>ACT (Residual) Exam</td>
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<tr>
<td></td>
<td>LEXIS-NEXIS Annual Fee</td>
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<tr>
<td></td>
<td>CCMA, Phlebotomy, EKG and Medical Assistant Fees²</td>
</tr>
<tr>
<td></td>
<td>Nurse Entrance Test (NET) Fee³</td>
</tr>
<tr>
<td></td>
<td>Nursing and PTA HESI Admission Assessment Exam Fee³</td>
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<tr>
<td></td>
<td>Nursing HESI Exit Exam (NUR 220) Fee³</td>
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<td></td>
<td>CLEP/DSST Fees 25.00 per exam</td>
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<td>Examination Fee §</td>
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<td>Other Standardized Tests §</td>
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<td>Liability Insurance (Nursing and Health Professions Students only) §</td>
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<tr>
<td></td>
<td>Library Membership Fee - Non-student County Residents** 10.00 per annum</td>
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<td>Replacement Diploma Fee 35.00</td>
</tr>
<tr>
<td></td>
<td>Transcripts (processing options) $5 plus § Per standard (3-5 business days) $10 plus § Per expedited (next business day) $25 (same day)</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.
** County borrowers from communities not participating in the GOLD System.
¹ These course fees are in accordance with programs listed in the Academic Catalog.

* Fee subject to change
** Cost pass through
§ Cost pass through plus $25 administration
ário The NJVCC Online course fee is an estimate for informational purposes only. The actual rate is set by the Council of County Colleges.
© The NET is NOT required for applicants to Rowan College’s Nursing program. Rowan College is a NET testing site for other Nursing programs.
** County borrowers from communities not participating in the GOLD System.
× 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.

Course Abbreviation Key

★ CLASS DAYS:
The key to class days is:

M Monday
T Tuesday
W Wednesday
R Thursday
F Friday
S Saturday

★ TBA – to be announced; check the website at RCSJ.edu/gc/Courses (Course Registration section) prior to the start of class for updated information.

★ COURSE SECTION NUMBER CODES:

<table>
<thead>
<tr>
<th>Section Numbers</th>
<th>Satellite Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1-G9</td>
<td>GCIT</td>
</tr>
</tbody>
</table>

Section Numbers | Course Type
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>B1-B9</td>
</tr>
<tr>
<td>E1-E9</td>
</tr>
<tr>
<td>M1-M9</td>
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<tr>
<td>D1-D9</td>
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<td>W1-W9</td>
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<td>51-59</td>
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<td>70-79</td>
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<td>80-89</td>
</tr>
<tr>
<td>100-110</td>
</tr>
<tr>
<td>510-590</td>
</tr>
</tbody>
</table>

★ BUILDING CODES — Gloucester Campus:

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

Satellite Locations:

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

★ INSTRUCTOR AND ROOM ASSIGNMENTS are subject to change. Rowan College reserves the right to cancel a scheduled class when registration is insufficient. Students should review their schedules the day prior to term start for any changes.
Distance Education

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.

Currently there are nine, fully online programs at RCSJ, including:

- A.S. Business Administration
- A.S. Computer Information System
- A.A.S. Digital Marketing
- A.A. Arts and Sciences
- A.A. Arts and Sciences: Communications Option
- A.A. Arts and Sciences: History Option
- A.A. Arts and Sciences: Psychology Option
- A.A. Arts and Sciences: Sociology Option

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

For more information about these programs, contact the 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?”

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 Academic Support Center in the Learning Commons (LC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internet Access</td>
<td>Open Computer Labs in Library LC</td>
</tr>
<tr>
<td>Placement/Makeup Testing</td>
<td>LC</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 LC</td>
</tr>
<tr>
<td>Report Writing</td>
<td>Open Computer Labs in Library LC</td>
</tr>
<tr>
<td>Research</td>
<td>Library</td>
</tr>
<tr>
<td>Academic Support Center</td>
<td>Library (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.
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.
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></th>
<th>A.A.</th>
<th>A.S.*</th>
<th>A.A.S.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education**</td>
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<td>30</td>
<td>20</td>
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<tr>
<td>Electives</td>
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</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 91 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.
Certificate Program

In today's society there is a growing vital need for compassionate counselors specializing in the field of alcohol and drugs. This program enhances the student's natural ability to interact with others, and that capacity is refined into a valuable skill with rewarding professional opportunities. Students will receive the practical and theoretical education necessary for success professionally or at a four-year college. The New Jersey Department of Labor Workforce Development, Labor Market Demand Occupation list on Substance Abuse Counseling indicates a growing employment demand in the field of alcohol and drug counseling. The future trend indicates an increase in this field of counseling.

Program Learning Outcomes

Students who complete the program will be able to:

• Identify and analyze the chronic effects of abuses and addiction associated with alcohol and drugs.
• Describe the principles of accepted practices for alcohol and drug awareness counseling.
• Illustrate preventive methods and interventions for alcohol and drug addictions.
• Discuss the role of the counselor for alcohol and drug counseling.
• Locate, retrieve and critically evaluate information and information sources related to the profession.

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.
**Arts and Sciences: Pre-Law Option, A.A.**

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<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>HIS 101 History of Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>PLG 101 Introduction to Legal Studies</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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<tr>
<td><strong>Spring Semester</strong></td>
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</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>HIS 102 History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PLG 103 Legal Research and Writing</td>
<td>3</td>
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<tr>
<td>MAT 103 Statistics</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>SECOND YEAR — Fall Semester</strong></td>
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<tr>
<td>ENG ___ English General Education elective</td>
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<tr>
<td>SOC 101 Principles of Sociology</td>
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<tr>
<td>___ ___ Modern Language elective(^2)</td>
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</tr>
<tr>
<td>___ ___ Lab Science elective(^1)</td>
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<tr>
<td>POL 101 American Federal Government or</td>
<td>3</td>
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<tr>
<td>POL 103 Introduction to Political Science</td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>PHI 104 Ethics</td>
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<tr>
<td>ART 101 Art Appreciation I or MUS 101 Music Appreciation I</td>
<td>3</td>
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<tr>
<td>CRJ 201 Criminal Law or CRJ 205 Administration of Justice</td>
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<td>HPE 105 Healthcare Provider Emergency</td>
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<td>Response with BLS Certification</td>
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<td><strong>Total</strong></td>
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</table>

**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

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**Program Learning Outcomes**

Students who have completed the program will be able to:

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

**Advisement**

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

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAT ___ Mathematics elective</td>
<td>3-4</td>
</tr>
<tr>
<td>SOC 101 Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>ART 101 Art Appreciation I or</td>
<td>3</td>
</tr>
<tr>
<td>MUS 101 Music Appreciation I</td>
<td></td>
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<tr>
<td>HIS 101 History of Western Civilization I</td>
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<tr>
<td>ENG 102 English Composition II</td>
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<td>MAT ___ Mathematics elective</td>
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<tr>
<td>PSY 101 General Psychology</td>
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<td>HIS 102 History of Western Civilization II</td>
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<td>HPE ___ Health and Physical Education elective</td>
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<tr>
<td>___ ___ Lab Science elective</td>
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<td>___ ___ General Education elective</td>
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<td>SPE 101 Oral Communication</td>
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<td>PHI 101 Introduction to Philosophy</td>
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<tr>
<td><strong>TOTAL MINIMUM CREDITS: 60</strong></td>
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</tr>
</tbody>
</table>

Program Notes

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

Program Electives

- CRJ 230 Violent Crime in America
- PSY 211 Psychology of Human Development
- PSY 213 Child Psychology
- PSY 215 Psychology of Aging
- PSY 230 Abnormal Psychology
- SOC 102 Sociology of the Family
- SOC 104 Social Problems
- SOC 130 Society, Ethics and Technology
- SOC 160 Introduction to Social Work
- SOC 206 Minorities in American Society
Criminal Justice, A.S.
This is a 3+1 option program with Rowan University.

Program Requirements

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>• ENG 101 English Composition I</td>
<td>3</td>
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<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>• CRJ 101 Introduction to Criminal Justice</td>
<td>3</td>
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<tr>
<td>• SPE 101 Oral Communications</td>
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<td><strong>Spring Semester</strong></td>
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<tr>
<td>• ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>• MAT 103 Statistics</td>
<td>3</td>
</tr>
<tr>
<td>• SOC 101 Principles of Sociology or</td>
<td></td>
</tr>
<tr>
<td>SOC 102 Sociology of the Family or</td>
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<tr>
<td>SOC 104 Social Problems*</td>
<td>3</td>
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<tr>
<td>• CRJ 205 The Administration of Justice</td>
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<td>• CRJ 201 Criminal Law</td>
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<tr>
<td><strong>SECOND YEAR — Fall Semester</strong></td>
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<tr>
<td>• PHI 104 Ethics</td>
<td>3</td>
</tr>
<tr>
<td>• PHY 241 Forensic Science I</td>
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<td>• CRJ 215 Introduction to Criminology</td>
<td>3</td>
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<tr>
<td>• ___ Criminal Justice elective**</td>
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<tr>
<td>• HPE 105 Healthcare Provider Emergency</td>
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<td>Response with BLS Certification</td>
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<td><strong>Spring Semester</strong></td>
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<tr>
<td>• ___ Humanities elective***</td>
<td>3</td>
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<tr>
<td>• SOC 220 Sociology of the Juvenile Delinquency</td>
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<tr>
<td>• PHY 242 Forensic Science II</td>
<td>4</td>
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<tr>
<td>• CRJ 250 Constitutional Issues in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>• ___ Criminal Justice elective****</td>
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<tr>
<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>

**TOTAL MINIMUM CREDITS: 60**

After completing the Criminal Justice A.S., continue to the third year for the 3+1 option.

Year 3, 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       |
**Total**                                     | 15      |

Year 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       |
**Total**                                     | 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

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

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

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

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

3+1 Notes
* 3+1 students must take SOC104
** 3+1 students must take LEN234
*** 3+1 students must take SPA101 or SPA102
**** 3+1 students must take LEN210

[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

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

Advisement
RCSJ.edu
Criminal Justice — Emergency Management, A.S.
This is a 3+1 option program with Rowan University.

Program Requirements

<table>
<thead>
<tr>
<th>Program Learning Outcomes</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students who have completed the program will be able to:</td>
<td></td>
</tr>
<tr>
<td>• Explain Crime and Criminological Theories</td>
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<tr>
<td>• Explain Crime Sources, Trends, and Outcomes</td>
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</tr>
<tr>
<td>• Demonstrate Current Methods Used for Evidence Collection and Analysis</td>
<td></td>
</tr>
<tr>
<td>• Articulate Criminological Theories</td>
<td></td>
</tr>
<tr>
<td>• Demonstrate the need for an organized approach to the management of an emergency incident</td>
<td></td>
</tr>
</tbody>
</table>

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

### FIRST YEAR — Fall Semester
- ENG 101 English Composition I 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

### Total Minimum Credits 60

After completing the Criminal Justice/Emergency Management, A.S., continue to the third year for the 3+1 option.

### Year 3, Fall Semester
- ECO 101 Principles of Economics I: 3
- ART 101 Art Appreciation or MUS 101 Music Appreciation: 3
- EMG 300 Critical Infrastructure: 3
- SCIL Elective: 3
- Free Elective: 3

### Year 3, Spring Semester
- EMG 309 Emergency Operations and Business Continuity: 3
- EMG 305 Natural and Technological Hazards: Mitigation and Response: 3
- LIT Elective: 3
- Free Elective: 3
- Free Elective: 3

### Total Minimum Credits 15
Criminal Justice — Emergency Management, CERT

Program Requirements

<table>
<thead>
<tr>
<th>Crs</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
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<tr>
<td>EMG 101 Introduction to Emergency Management and Homeland Security</td>
<td>3</td>
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<tr>
<td>EMG 201 Incident Command: Theory and Practice</td>
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<tr>
<td>ENG 101 English Composition I or ENG 101E Enhanced English Composition I</td>
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<tr>
<td>PHY 241 Forensic Science I</td>
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<tr>
<td>LEN 234 Introduction to Security</td>
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<tr>
<td><strong>Total Credits</strong></td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>GEO 115 Introduction to Geographic Information Systems</td>
<td>3</td>
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<td>PHY 242 Forensics II</td>
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<td>EMG 105 Planning for Emergencies</td>
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<tr>
<td>EMG 205 Global Catastrophes</td>
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<tr>
<td>SPE 101 Oral Communication</td>
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<td>HPE 105 Healthcare Provider Emergency Response with BLS Certification</td>
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<td><strong>Total Credits</strong></td>
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**Total Credits 33**
[AAS-LEN; CIP Code 43.0107]

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

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

**Program Learning Outcomes**

Students who have completed the program will be able to:
- Describe the criminal justice system
- Explain crime and criminological theories
- Describe policing models and practices
- Compose investigative reports
- Practice methods of investigative analysis

**Employment Opportunities**

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

**Advisement**

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

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

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**Law Enforcement, A.A.S.**

### Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>ENG 101 English Composition I</td>
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<tr>
<td>CRJ 101 Introduction to Criminal Justice</td>
<td>3</td>
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<tr>
<td>SOC 101 Principles of Sociology or SOC 102 Sociology of the Family or SOC 104 Social Problems</td>
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<tr>
<td>PSY 101 General Psychology</td>
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<tr>
<td>SPE 101 Oral Communication</td>
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<tr>
<td>ENG 102 English Composition II</td>
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</tr>
<tr>
<td>LEN 108 Police Supervision and Personnel Management</td>
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<tr>
<td>LEN 102 Police Organization and Administration</td>
<td>3</td>
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<tr>
<td>CRJ 201 Criminal Law</td>
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<tr>
<td>CRJ 205 Administration of Justice</td>
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<td><strong>SECOND YEAR — Fall Semester</strong></td>
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<tr>
<td>PHY 241 Forensic Science I</td>
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<tr>
<td>CRJ 215 Introduction to Criminology</td>
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<tr>
<td>LEN 221 Principles of Criminal Investigation</td>
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<tr>
<td>MAT 101 Concepts of Mathematics</td>
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<td>PHY 242 Forensic Science II</td>
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<td>LEN 210 Contemporary Issues in Law Enforcement</td>
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<td>LEN 227 Introduction to Corrections</td>
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<td>SOC 220 Sociology of Juvenile Delinquency</td>
<td>3</td>
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</table>

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

Program Requirements

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<tr>
<td></td>
<td>ENG 101 English Composition I</td>
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<td>MAT ___ Mathematics elective¹</td>
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<td>PSY ___ General Psychology</td>
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<td>ART 101 Art Appreciation I or MUS 101 Music Appreciation I</td>
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<tr>
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<td>HIS ___ History elective³</td>
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<thead>
<tr>
<th>Credits</th>
<th>Spring Semester</th>
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<tbody>
<tr>
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<td>ENG 102 English Composition II</td>
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<tr>
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<td>MAT ___ Mathematics elective¹</td>
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<td></td>
<td>PSY 211 Psychology of Human Development</td>
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<td>HIS ___ History elective³</td>
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<td>HPE ___ Health and Physical Education elective</td>
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<td>PSY 212 Psychology of the Adolescent or PSY 213 Child Psychology</td>
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<td>PSY ___ Program elective – Psychology²</td>
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<table>
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<th>Spring Semester</th>
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<td>SPE 101 Oral Communication</td>
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<td></td>
<td>___ ___ Lab Science elective¹</td>
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<td>PHI 104 Ethics</td>
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<td>PSY ___ Program elective – Psychology²</td>
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**TOTAL MINIMUM CREDITS: 60**

After completing the Psychology A.A., continue to the third year for the 3+1 option.

<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>PSY 305 Psychology of Scientific Thinking</td>
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<td>PSY 306 Statistics in Psychology</td>
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<td>PSY 240 Social Psychology</td>
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<td>PHI 110 Religions of the World</td>
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<table>
<thead>
<tr>
<th>Credits</th>
<th>Year 3, Spring Semester</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>PSY 310 Psychology as a Profession and Practice</td>
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<tr>
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<td>PSY 315 Research Methods in Psychology</td>
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<td>PSY 230 Abnormal Psychology</td>
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<td>Free Elective</td>
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<td>Free Elective</td>
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<td><strong>Total</strong></td>
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</tbody>
</table>

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

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

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

Program Notes
¹ Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites
² Students intending to attend Rowan University in the Psychology BA program must take PSY 240 and PSY 211 or PSY 213
³ Please see your academic advisor for details.
⁴ Recommended: ENG 203, ENG 213, or ENG 215
Paralegal, A.A.S.

Program Requirements

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

16

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

16

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

15–16

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

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

Program Requirements

- CIS 102 Introduction to Computers or CIS 120 Excel Spreadsheets: 4 credits
- PLG 101 Introduction to Legal Studies: 3 credits
- PLG 102 Litigation and Civil Procedure: 3 credits
- PLG 103 Legal Research and Writing: 3 credits
- PLG 125 Business Organizations for Paralegals: 3 credits
- PLG 201 Criminal Law and Procedure: 3 credits
- PLG 204 Technology in the Law Firm: 3 credits
- PLG 209 Legal Assistant Practicum: 3 credits
- PLG 212 Paralegal Skills and Office Practices: 3 credits
- PLG ___ PLG elective: 3 credits
- PLG ___ PLG elective: 3 credits

TOTAL CREDITS: 34

Program Notes

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

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

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

Certificate Program Notes

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

Program Requirements

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

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

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

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

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
Accounting, A.A.S.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 102 Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>CIS 102 Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 105 Intermediate Algebra</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>18</strong></td>
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<tr>
<td><strong>Spring Semester</strong></td>
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</tr>
<tr>
<td>BUS 103 Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>CIS 120 Spreadsheets – EXCEL</td>
<td>4</td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
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<td>MAT 103 Statistics</td>
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<td>COM 104 Business Communications</td>
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<td><strong>TOTAL</strong></td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>SECOND YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>BUS 104 Personal and Professional Branding or</td>
<td>1–3</td>
</tr>
<tr>
<td>HPE ___ Health and Physical Education elective</td>
<td></td>
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<tr>
<td>BUS 106 Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 107 Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 206 Federal Income Taxes</td>
<td>3</td>
</tr>
<tr>
<td>ECO Economics elective</td>
<td>3</td>
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<td><strong>TOTAL</strong></td>
<td><strong>13–15</strong></td>
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<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>BUS 108 Business Law II</td>
<td>3</td>
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<tr>
<td>BUS 207 Accounting Information Systems</td>
<td>3</td>
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<tr>
<td>CIS 207 Management Information Systems</td>
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</tr>
<tr>
<td>CEP 211 Internship Career Connections</td>
<td>3</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**TOTAL MINIMUM CREDITS: 60**

Program Learning Outcomes

Students who have completed the program will be able to:

- Interpret, analyze and communicate financial and managerial information for decision-making purposes
- Understand and create financial statements in accordance with generally accepted accounting principles
- Demonstrate computer literacy and competency with accounting spreadsheet applications
- Meet qualifications for entry-level positions in accounting or upgrade one's professional competence

Program Notes

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

Contact Person

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

Employment Opportunities

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

Advisement

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

Certificate of Achievement

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

Program Requirements

- BUS 102 Accounting I 4
- BUS 103 Accounting II 4
- CIS 120 Spreadsheets – Excel 4
- BUS 207 Accounting Information Systems or
  BUS 206 Federal Income Taxes or
  BUS 106 Managerial Accounting 3
- BUS 104 Personal and Professional Branding 1

**TOTAL CREDITS: 16**

*This certificate of achievement stacks into the Accounting, A.A.S. program.*
Business Administration, A.S.
This is a 3+1 option program with Rowan University.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 102 Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>CIS 102 Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td>MAT 152 Applied Calculus</td>
<td>4</td>
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Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 102 English Composition II</td>
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<tr>
<td>SPE 101 Oral Communication</td>
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<tr>
<td>Humanities elective</td>
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<tr>
<td>BUS 103 Accounting II</td>
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SECOND YEAR — Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MAT 103 Statistics</td>
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<td>BUS 231 Principles of Management</td>
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<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101 Principles of Sociology</td>
<td>3</td>
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<tr>
<td>BUS 106 Managerial Accounting</td>
<td>3</td>
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<tr>
<td>ECO 101 Principles of Economics</td>
<td>3</td>
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<tr>
<td>BUS 221 Principles of Marketing</td>
<td>3</td>
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<td>BUS 107 Business Law I</td>
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</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CIS 207 Management Information Systems</td>
<td>3</td>
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<tr>
<td>CIS 110 Fundamentals of Programming</td>
<td>4</td>
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<tr>
<td>General Education elective</td>
<td>4</td>
</tr>
<tr>
<td>ECO 102 Principles of Economics II</td>
<td>3</td>
</tr>
<tr>
<td>BUS 108 Business Law II</td>
<td>3</td>
</tr>
<tr>
<td>Lab Science elective</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

TOTAL MINIMUM CREDITS: 60

1 3+1 students should take PSY 101. 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.

After completing the Business Administration AS, continue to the third year for the Global Business/Leadership 3+1 option.

Year 3, Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>BUS 310 Business Logistics</td>
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<td>BUS 300 Applied Organizational Behavior</td>
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<td>World Language 101 Level Elective</td>
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<td>International Course Elective</td>
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<td>Free Elective</td>
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Year 3, Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUS 304 Issues in Business: Directed Research</td>
<td>3</td>
</tr>
<tr>
<td>BUS 308 Applied Human Resource Management II</td>
<td>3</td>
</tr>
<tr>
<td>CEP 211 Internship Career Connections</td>
<td>3</td>
</tr>
<tr>
<td>World Language 102 Level Elective</td>
<td>3</td>
</tr>
<tr>
<td>ENG --- Literature Course Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
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</tbody>
</table>
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.

- 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.
[AAS-CGA-GID; CIP Code 110803]

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

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

Program Learning Outcomes

Students who have completed the program will be able to:

• Use animation and motion graphics software tools at a highly competent level
• Understand the different types of gaming technologies available
• Understand how to design and develop a basic game
• Understand how to design and develop websites
• Understand how to create graphics for screen use

Program Notes

Computer Graphic Arts is 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 www.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.

Contact Person

Mary Malincono, Associate Professor
Coordinator, Computer Graphic Arts
mmalincono@rcsj.edu

Advisement

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

RCSJ.edu

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

Program Requirements

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST YEAR —</td>
</tr>
<tr>
<td>Fall Semester</td>
</tr>
<tr>
<td>CGA 103 Design, Color and Type</td>
</tr>
<tr>
<td>CGA 115 Foundations of Computer Graphic Arts</td>
</tr>
<tr>
<td>ART 131 Introduction to Digital Photography</td>
</tr>
<tr>
<td>ENG 101 English Composition I</td>
</tr>
<tr>
<td>MAT 101 Concepts of Mathematics</td>
</tr>
<tr>
<td><strong>Total: 15</strong></td>
</tr>
<tr>
<td>Spring Semester</td>
</tr>
<tr>
<td>CGA 118 Introduction to Animation</td>
</tr>
<tr>
<td>CGA 130 Video and Audio Editing</td>
</tr>
<tr>
<td>CGA 120 Introduction to Electronic Publishing and Typography</td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
</tr>
<tr>
<td>___ ___ General Education elective</td>
</tr>
<tr>
<td><strong>Total: 15</strong></td>
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</table>

SECOND YEAR —

Fall Semester

<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>CGA 212 Screen Graphics</td>
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<tr>
<td>CGA 215 Electronic Illustration I</td>
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<tr>
<td>CGA 217 Electronic Image Processing</td>
</tr>
<tr>
<td>___ ___ Social Science elective</td>
</tr>
<tr>
<td>COM 104 Business Communications or CEP 211 Internship Career Connections</td>
</tr>
<tr>
<td><strong>Total: 15</strong></td>
</tr>
<tr>
<td>Spring Semester</td>
</tr>
<tr>
<td>ART 231 Intermediate Digital Photography</td>
</tr>
<tr>
<td>CGA 219 Web Design</td>
</tr>
<tr>
<td>CGA 218 Game and Interactive Authoring</td>
</tr>
<tr>
<td>___ ___ General Education elective</td>
</tr>
<tr>
<td>___ ___ General Education elective</td>
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<tr>
<td><strong>Total: 15</strong></td>
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</tbody>
</table>

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

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CGA 103 Design, Color and Type</td>
<td>3</td>
</tr>
<tr>
<td>CGA 118 Introduction to Animation</td>
<td>3</td>
</tr>
<tr>
<td>CGA 130 Video and Audio Editing</td>
<td>3</td>
</tr>
<tr>
<td>CGA 212 Screen Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CGA 218 Game and Interactive Authoring</td>
<td>3</td>
</tr>
<tr>
<td>CGA 219 Web Design</td>
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</table>

**TOTAL CREDITS: 18**

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

Program Requirements

<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>CGA 103 Design, Color and Type</td>
<td>3</td>
</tr>
<tr>
<td>CGA 115 Foundations of Computer Graphic Arts</td>
<td>3</td>
</tr>
<tr>
<td>ART 105 Drawing I</td>
<td>3</td>
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<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
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<tr>
<td>MAT 101 Concepts of Mathematics</td>
<td>3</td>
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<tr>
<td><strong>Spring Semester</strong></td>
<td>15</td>
</tr>
<tr>
<td>ART 131 Introduction to Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>CGA 130 Video and Audio Editing</td>
<td>3</td>
</tr>
<tr>
<td>CGA 120 Introduction to Electronic Publishing and Typography</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
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</tr>
<tr>
<td>___ ___ General Education elective</td>
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<tr>
<td><strong>SECOND YEAR — Fall Semester</strong></td>
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</tr>
<tr>
<td>CGA 220 Advanced Electronic Publishing</td>
<td>3</td>
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<tr>
<td>CGA 215 Electronic Illustration I</td>
<td>3</td>
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<tr>
<td>CGA 217 Electronic Image Processing</td>
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<tr>
<td>___ ___ Social Science elective</td>
<td>3</td>
</tr>
<tr>
<td>COM 104 Business Communications or</td>
<td>3</td>
</tr>
<tr>
<td>CEP 211 Internship Career Connections</td>
<td></td>
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<tr>
<td><strong>Spring Semester</strong></td>
<td>15</td>
</tr>
<tr>
<td>CGA 219 Web Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 201 Art History I</td>
<td>3</td>
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<tr>
<td>___ ___ General Education elective</td>
<td>3</td>
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<tr>
<td>___ ___ General Education elective</td>
<td>3</td>
</tr>
<tr>
<td>ART 231 Intermediate Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL MINIMUM CREDITS:</strong></td>
<td><strong>60</strong></td>
</tr>
</tbody>
</table>

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 www.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.

Contact Person

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

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.
Computer Graphic Arts: Print Design, COA

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CGA 103</td>
<td>Design, Color and Type</td>
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</tr>
<tr>
<td>CGA 120</td>
<td>Introduction to Electronic Publishing and Typography</td>
<td>3</td>
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<tr>
<td>CGA 220</td>
<td>Advanced Electronic Publishing</td>
<td>3</td>
</tr>
<tr>
<td>CGA 215</td>
<td>Electronic Illustration I</td>
<td>3</td>
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<tr>
<td>CGA 217</td>
<td>Electronic Image Processing</td>
<td>3</td>
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<tr>
<td>CGA 219</td>
<td>Web Design</td>
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</table>

**TOTAL CREDITS: 18**

This certificate of achievement stacks into the Computer Graphic Arts: Print Design Option, A.A.S. program.
Computer Information Systems, A.S.

Program Requirements

<table>
<thead>
<tr>
<th>Crs</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
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<tr>
<td>ENG 101 English Composition I</td>
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<tr>
<td>MAT 103 Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CIS 102 Introduction to Computers</td>
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<tr>
<td>CIS 151 Web Development – HTML/CSS</td>
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<tr>
<td><strong>Total</strong></td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>CIS 110 Fundamentals of Programming</td>
<td>4</td>
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<tr>
<td>CIS 120 Spreadsheets – EXCEL</td>
<td>4</td>
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<tr>
<td>CIS 154 Advanced Web Development</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>SECOND YEAR — Fall Semester</strong></td>
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<tr>
<td>ECO 101 Principles of Economics I</td>
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<tr>
<td>CIS 210 Relational Databases</td>
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<td>CIS 251 Web Programming</td>
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<td><strong>Spring Semester</strong></td>
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<td>ECO 102 Principles of Economics II</td>
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<td>CIS 207 Management Information Systems</td>
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<tr>
<td>CIS 264 Database Application Development</td>
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<td>Lab Science elective</td>
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<td><strong>Total</strong></td>
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</tr>
<tr>
<td><strong>TOTAL MINIMUM CREDITS: 60</strong></td>
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</table>

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

Program Learning Outcomes

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

Employment Opportunities

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

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

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

RCSJ.edu
Digital Marketing, A.A.S.

Program Requirements

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
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<tr>
<td></td>
<td>ENG 101 English Composition I</td>
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<tr>
<td></td>
<td>BUS 101 Introduction to Business</td>
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<td>CIS 102 Introduction to Computers</td>
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<td>CIS 151 Web Development – HTML/CSS</td>
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<td>MAT 103 Statistics</td>
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<tr>
<td></td>
<td>ENG 102 English Composition II</td>
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<tr>
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<td>BUS 221 Principles of Marketing</td>
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<td></td>
<td>CIS 154 Advanced Web Development</td>
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<tr>
<td></td>
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<td>SPE 101 Oral Communications</td>
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<td>BUS 102 Accounting I</td>
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<td></td>
<td>BUS 224 Social Media Marketing and Web Analytics</td>
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<td>BUS 231 Principles of Management</td>
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<td>COM 104 Business Communication</td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<td>___ ___ Humanities or Social Science elective</td>
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<td></td>
<td>CIS 207 Management Information Systems</td>
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<td>BUS 225 Principles of Advertising</td>
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<td>CEP 211 Internship Career Connections</td>
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<td></td>
<td><strong>TOTAL MINIMUM CREDITS:</strong></td>
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¹ 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
Digital Marketing, COA

Program Requirements

- 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.
Entrepreneurship, A.A.S.

Program Requirements

FIRST YEAR — Fall Semester
- BUS 102 Accounting I  
- BUS 107 Business Law I  
- BUS 129 Introduction to Entrepreneurship  
- ENG 101 English Composition I  
  Credits: 13

Spring Semester
- BUS 231 Principles of Management  
- BUS 221 Principles of Marketing  
- CIS 102 Introduction to Computers  
- ENG 102 English Composition II or  
  COM 105 Technical and Scientific Writing  
- SPE 101 Oral Communication  
  Credits: 16

SECOND YEAR — Fall Semester
- BUS 225 Principles of Advertising  
- BUS 237 Human Resource Management  
- CIS 120 Spreadsheets - EXCEL  
- ECO 102 Principles of Economics II (Micro)  
- MAT 103 or MAT 107 or Higher (excluding MAT 120)  
  General Education Mathematics Elective  
  Credits: 16

Spring Semester
- BUS 207 Accounting Information Systems  
- BUS 234 Small Business Management  
- BUS 224 Social Media Marketing and Web Analytics  
- BUS 212 Introduction to International Business or  
  COM 104 Business Communications  
- General Education Humanities Elective  
  Credits: 15

Total Minimum Credits: 60
Entrepreneurship, COA

Program Requirements

- 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 CREDITS: 16/17

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.
Human Resource Management, A.S.

Program Requirements

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<td>CIS102</td>
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<td>Personal and Professional Branding or HPE ___ Health and Physical Education elective</td>
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Spring Semester

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<tr>
<td>ENG 102</td>
<td>English Composition II</td>
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<td>MAT 151</td>
<td>Mathematics for Management</td>
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<td>PSY 101</td>
<td>General Psychology</td>
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SECOND YEAR — Fall Semester

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<td>BUS 239</td>
<td>Organizational Behavior</td>
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<td>___ ___</td>
<td>Humanities elective</td>
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Spring Semester

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<td>BUS 241</td>
<td>Business Ethics</td>
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<td>BUS 243</td>
<td>Organizational Development</td>
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<td>CEP 211</td>
<td>Internship Career Connections</td>
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<td>ECO 101</td>
<td>Principles of Economics I</td>
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TOTAL MINIMUM CREDITS: 60
Management, COA

Program Requirements

- 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.
Technology Help Desk Support, COA

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 102 Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td>CIS 120 Spreadsheets – EXCEL</td>
<td>4</td>
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<tr>
<td>CIS 210 Relational Databases</td>
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<td>CIS 220 IT Technical/Help Desk Support</td>
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<tr>
<td>CIS ___ CIS elective or</td>
<td></td>
</tr>
<tr>
<td>CEP ___ Internship Career Connections</td>
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</table>

**TOTAL CREDITS: 18**

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

Program Requirements

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

TOTAL CREDITS: 17
Automotive Technology, A.A.S.

Program Requirements

Credits

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

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

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

SECON D YEAR — Fourth Semester
- CE P 204 Cooperative Education Work Experience 1 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 MINIMUM 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 gloucesterasset.com for program and Internship Career Connections information and pct.edu for transfer information.

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.

Contact Persons

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

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

Advisement

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

Program Learning Outcomes

Students who have completed the program will be able to:

- Safely and competently work in an automotive repair facility
- Understand all eight ASE areas of automotive technology regardless of manufacturer. These systems include but are not limited to: electrical, brakes, steering, power-train controls and automatic transmissions
- Diagnose and fix all major automotive systems
- Demonstrate social skills and a high level of professionalism

Special Program Admission Information

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

RCSJ.edu
**Certified Clinical Medical Assistant (CCMA), COA**

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>CMA 101 Foundations in Medical Assisting</td>
<td>3</td>
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<tr>
<td>CMA 107 Medical Assistants in Practice Lab I</td>
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<tr>
<td>CMA 103 Structure of the Human Body I</td>
<td>2</td>
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<tr>
<td>ALH 140 Biomedical Ethics</td>
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<tr>
<td>NTR 101 Nutrition for Healthcare Providers</td>
<td>3</td>
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<tr>
<td>HPE 105 Healthcare Provider Emergency</td>
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<tr>
<td>Response with BLS Certification</td>
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<td><strong>Second Semester</strong></td>
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<tr>
<td>CMA 104 Structure of the Human Body II</td>
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<tr>
<td>CMA 108 Medical Assistants in Practice Lab II</td>
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<td>CMA 110 Pharmacology in Medical Assisting</td>
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<td>CMA 114 Medical Assisting Front Office Procedures</td>
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<td>CMA 118 Fundamentals of ECG/EKG</td>
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<td>CMA 125 Fundamentals of Phlebotomy</td>
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<td>CMA 120 ECG/EKG Clinical</td>
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<td>CMA 128 Phlebotomy Clinical</td>
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<td>CMA 131 CCMA Capstone Experience</td>
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**TOTAL CREDITS 29**
Process Technology, A.A.S.

Program Requirements

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<tr>
<td>ENG 101 English Composition I</td>
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<td>MAT 105 Intermediate Mathematics</td>
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<td>CHM 107 Introductory Chemistry</td>
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<td>PTE 101 Process Technology I: Intro. to Process Technology</td>
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<td>MAT 110 Algebra and Trigonometry</td>
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<td>PTE 102 Process Technology II: Instrumentation</td>
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<td>PTE 103 Principles of Occupational Safety and Health</td>
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<td>PTE 201 Process Technology Equipment</td>
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<td>CEP 211 Internship Career Connections</td>
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<td>SPE 101 Oral Communication</td>
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<td>COM 105 Technical and Scientific Writing</td>
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<td>PHY 103 General Physics I</td>
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<td>PTE 202 Process Technology Systems and Troubleshooting</td>
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<td>SOC 130 Society, Ethics and Technology</td>
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<tr>
<td>CIS 102 Introduction to Computers</td>
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<td>ENG 102 English Composition II</td>
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<td>____ Program elective¹</td>
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<td>HPE 105 Healthcare Provider Emergency Response with BLS Certification²</td>
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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
Technical Studies, A.A.S.

Program Requirements

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
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<td>MAT ___ General Education Mathematics elective or</td>
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<td><strong>Spring Semester</strong></td>
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<td>Apply up to 24 Technical Credits, as per Articulation Agreement**</td>
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</table>

*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.
**Communications and Fine & Performing Arts**

**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

**Contact Person**

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

**Advisement**

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

---

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

**Program Requirements**

<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 ___ Mathematics elective¹</td>
<td>3-4</td>
</tr>
<tr>
<td>ART 101 Art Appreciation I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 101 Music Appreciation I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 101 History of Western Civilization I²</td>
<td>3</td>
</tr>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
<td><strong>15-16</strong></td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MAT ___ Mathematics elective¹</td>
<td>3-4</td>
</tr>
<tr>
<td>HIS 102 History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Global and Cultural Awareness elective</td>
<td>3</td>
</tr>
<tr>
<td>ART 201 Art History I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td><strong>16-18</strong></td>
</tr>
<tr>
<td>SPE 101 Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>MAT ___ Mathematics elective¹</td>
<td>4</td>
</tr>
<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHI 101 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>ART ___ Program elective – Art³</td>
<td>3</td>
</tr>
<tr>
<td><strong>SECOND YEAR — Fall Semester</strong></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td><strong>TOTAL MINIMUM CREDITS: 60</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Program Notes**

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

² Students may substitute another history elective for these courses. Please see your academic advisor for additional details.

**Program Electives**

- ART 105 Drawing I
- ART 108 Drawing and Painting I
- ART 114 Painting I
- ART 116 Color Theory
- ART 121 History of Photography
- ART 131 Introduction to Digital Photography
- ART 231 Intermediate Digital Photography
Arts and Sciences:  
Communication Option, A.A.

Program Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
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<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
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<tr>
<td>MAT ___ Mathematics elective$^3$</td>
<td>3–4</td>
</tr>
<tr>
<td>PSY 101 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ART 101 Art Appreciation I or MUS 101 Music Appreciation I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 101 History of Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MAT 103 Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101 Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>HIS 102 History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>COM ___ Program Option elective$^2$</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>SECOND YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>___ ___ Lab Science elective$^1$</td>
<td>4</td>
</tr>
<tr>
<td>ENG 103 Survey of World Literature</td>
<td>3</td>
</tr>
<tr>
<td>COM 201 Journalism I</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Global and Cultural Awareness$^1$</td>
<td>3</td>
</tr>
<tr>
<td>COM ___ Program Option elective$^2$</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
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<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>SPE 101 Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Lab Science elective$^1$</td>
<td>4</td>
</tr>
<tr>
<td>PHI 101 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>HPE ___ Health and Physical Education elective</td>
<td>1–3</td>
</tr>
<tr>
<td>COM ___ Program Option elective$^2$</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>

**TOTAL MINIMUM CREDITS: 60**

After completing the Arts and Sciences: Communication Option A.A., continue to the third year for the Applied Professional Communications 3+1 option.

Year 3, Fall Semester

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COM 305 Writing, Research and Technology</td>
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<tr>
<td>COM 324 Introduction to New Media</td>
<td>3</td>
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<tr>
<td>Literature or Writing Elective</td>
<td>3</td>
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<tr>
<td>Free Elective</td>
<td>3</td>
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<td><strong>Total</strong></td>
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</table>

Year 3, Spring Semester

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 300 Publication, Layout and Design</td>
<td>3</td>
</tr>
<tr>
<td>COM 334 Digital Media Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CGA 120 Introduction to Electronic Publishing and Technology or Free Elective</td>
<td>3</td>
</tr>
<tr>
<td>Free Elective</td>
<td>3</td>
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<tr>
<td>Free Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

Please note: any transferable electives pre-approved for the 3+1 programs can be considered by the individual student and advisor, on a case-by-case basis. These are suggestions to guide students to select electives that best support their Communications degree.
Arts and Sciences: Digital Photography Option, A.A.

Program Requirements

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- MAT ___ Mathematics elective 1 3–4
- HIS ___ History elective 3
- ART ___ Art elective 2 3
- ART 121 History of Photography 3
  15–16

Spring Semester
- ENG 102 English Composition II 3
- MAT ___ Mathematics elective 1 3–4
- HIS ___ History elective 3
- ART 131 Introduction to Digital Photography 3
- ___ ___ Global and Cultural Awareness elective 1 3
- HPE ___ Health and Physical Education elective 1–3
  16–18

SECOND YEAR — Fall Semester
- ___ ___ Lab Science elective 1 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 elective 1 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. The art elective may be selected from the following courses.

Program Electives
- ART 101 Art Appreciation I
- ART 105 Drawing I
- ART 108 Drawing and Painting I
- ART 114 Painting I
- ART 116 Color Theory
- ART 121 History of Photography
- ART 201 Art History I
- ART 202 Art History II
- ART 208 Drawing and Painting II
**Digital Photography, COA**

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 131 Introduction to Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 141 Introduction to Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>ART 231 Intermediate Digital Photography</td>
<td>3</td>
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<tr>
<td>ART 121 History of Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 116 Color Theory</td>
<td>3</td>
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</tbody>
</table>

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

Program Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
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</tr>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAT ___ Mathematics elective</td>
<td>3–4</td>
</tr>
<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ART 101 Art Appreciation I or MUS 101 Music Appreciation I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 101 History of Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15–16</strong></td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MAT ___ Mathematics elective1</td>
<td>3–4</td>
</tr>
<tr>
<td>ENG 103 Survey of World Literature</td>
<td>3</td>
</tr>
<tr>
<td>HIS 102 History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>ENG ___ Program Option elective – English</td>
<td>3</td>
</tr>
<tr>
<td>HPE ___ Health and Physical Education elective</td>
<td>1–3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16–19</strong></td>
</tr>
<tr>
<td><strong>SECOND YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>___ ___ Lab Science elective1</td>
<td>4</td>
</tr>
<tr>
<td>SOC 101 Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>PHI 101 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>ENG 230 Major American Writers</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Global and Cultural Awareness elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>SPE 101 Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Lab Science elective1</td>
<td>4</td>
</tr>
<tr>
<td>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</td>
<td>3</td>
</tr>
<tr>
<td>ENG ___ Program Option elective – English</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

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

Contact Person

Dr. Sarah Hastings
shastin1@rcsj.edu

Advisement

Current students please visit RCSJ.edu/gc/Advisement to schedule an appointment with your academic advisor. Future students please visit RCSJ.edu/gc/Appointments to learn more about how to get started.
Arts and Sciences: Music Option, A.A.

Program Requirements

<table>
<thead>
<tr>
<th>FIRST YEAR — Fall Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 101 History of Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>ART 101 Art Appreciation I</td>
<td>3</td>
</tr>
<tr>
<td>MAT ____ Mathematics elective*</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>12-13</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>HIS 102 History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 212 Music Theory**</td>
<td>3</td>
</tr>
<tr>
<td>MUS 215 Aural Skills</td>
<td>1</td>
</tr>
<tr>
<td>____ ____ General Education Elective - Diversity*</td>
<td>3</td>
</tr>
<tr>
<td>MAT ____ Mathematics Elective*</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>16-17</td>
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</table>

<table>
<thead>
<tr>
<th>SECOND YEAR — Fall Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG ____ English Elective</td>
<td>3</td>
</tr>
<tr>
<td>____ ____ General Education Elective - Ethics*</td>
<td>3</td>
</tr>
<tr>
<td>____ ____ Lab Science Elective*</td>
<td>4</td>
</tr>
<tr>
<td>SOC 101 Principles of Sociology</td>
<td>3</td>
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<tr>
<td>MUS 126 History of Music</td>
<td>3</td>
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<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 101 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>____ ____ Lab Science Elective*</td>
<td>4</td>
</tr>
<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>MUS ____ Program Option Elective – Music</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

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
Communications and Fine & Performing Arts

[AA-ASC-RTF; CIP Code 240101]

Associate in Arts (A.A.) – Transfer

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

Program Outcomes

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

Contact Person
David Coates, Assistant Professor, dcoates@rcsj.edu

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

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

Program Option Electives
COM 216, COM 210, COM 212, COM 217

Arts and Sciences: Radio, Television and Film Option, A.A.
This is a 3+1 option program with Rowan University.

Program Requirements

<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST YEAR — Fall Semester</td>
<td></td>
</tr>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAT ___ Mathematics elective</td>
<td>3–4</td>
</tr>
<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HIS 101 History of Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>COM 217 Applied Media Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15–16</td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MAT ___ Mathematics elective</td>
<td>3–4</td>
</tr>
<tr>
<td>ART 101 Art Appreciation I or</td>
<td></td>
</tr>
<tr>
<td>MUS 101 Music Appreciation I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 102 History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>COM 216 Foundations of Media Production</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15–16</td>
</tr>
<tr>
<td>SECOND YEAR — Fall Semester</td>
<td></td>
</tr>
<tr>
<td>SPE 101 Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Lab Science elective</td>
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<tr>
<td>SOC 101 Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Global and Cultural Awareness elective</td>
<td>3</td>
</tr>
<tr>
<td>COM 212 TV History and Appreciation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>16</td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>___ ___ Lab Science elective</td>
<td>3</td>
</tr>
<tr>
<td>PHI 101 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>___ ___ Humanities - Broad-Based (HUP) elective</td>
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</tr>
<tr>
<td>HPE ___ Health and Physical Education elective</td>
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<td>COM 210 Film History and Appreciation</td>
<td>3</td>
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<td></td>
<td>14–16</td>
</tr>
</tbody>
</table>

TOTAL MINIMUM CREDITS: 60

After completing the Radio/Television/Film A.A., continue to the third year for the Radio/Television/Film 3+1 option.

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
- Free Elective | 15

Third Year, Spring Semester
- COM 312 Film Production I | 3
- COM 317 The Movie Industry | 3
- Free Elective | 3
- Free Elective | 3
- Free Elective | 3
- Free Elective | 15

Free Electives = any college level course of the student's choice

Students who have credits from other schools or changed their major may not follow the generic course sequence sheet.
Arts and Sciences, A.A.

Program Requirements

<table>
<thead>
<tr>
<th>Credits</th>
<th>First Year — Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENG 101 English Composition I</td>
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<tr>
<td></td>
<td>MAT ___ Mathematics elective¹</td>
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<tr>
<td></td>
<td>SOC 101 Principles of Sociology</td>
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<td></td>
<td>ART 101 Art Appreciation I or</td>
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<td></td>
<td>MUS 101 Music Appreciation I</td>
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<tr>
<td></td>
<td>HIS 101 History of Western Civilization</td>
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</table>

<table>
<thead>
<tr>
<th></th>
<th>Spring Semester</th>
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<tr>
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<td>PHI 101 Introduction to Philosophy</td>
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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.
Arts and Sciences: History Option, A.A.

Program Requirements | Credits
--- | ---
**FIRST YEAR — Fall Semester**
- ENG 101 English Composition I | 3
- MAT ____ Mathematics General Education Elective\(^1\) | 3–4
- POL 101 American Federal Government | 3
- Humanities General Education Elective\(^1\) | 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\(^1\) | 3–4
- Social Science General Education Elective\(^1\) | 3
- Global and Cultural General Education Elective\(^1,2\) | 3
- HIS 104 History of the United States II | 3
- HPE ____ Health and Physical Education Elective or BUS 104 Personal & Professional Branding\(^4\) | 1–3
| 16–17

**SECOND YEAR — Fall Semester**
- Lab Science General Education Elective\(^1\) | 4
- Humanities General Education Elective\(^1\) | 3
- HIS ____ History Elective\(^3\) | 3
- Social Science General Education Elective\(^1\) | 3
- HIS/POL Program Option Elective\(^5\) | 3
| 16

**Spring Semester**
- SPE 101 Oral Communication | 3
- Lab Science General Education Elective\(^1\) | 4
- Humanities General Education Elective\(^1\) | 3
- HIS ____ History Elective\(^3\) | 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
**Arts and Sciences: Philosophy Option, A.A.**

**Program Requirements**

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<td>ART 101 Art Appreciation I or MUS 101 Music Appreciation I</td>
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<td>SOC 101 Introduction to Sociology</td>
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**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
Education, A.S.

Program Requirements

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- PSY 212 Adolescent Psychology or PSY 213 Child Psychology 7 3
- EDU 205 History of American Education 3
- HIS ___ U.S. History Elective 1 3
- SOC 102 Sociology of the Family 3

Spring Semester
- SOC 110 Cultural Anthropology 3
- ENG 102 English Composition II 3
- EDU 105 Educational Technology 1
- ___ ___ General Education Lab Science Elective 2 4
- ART ___ Art Appreciation I or MUS ___ Music Appreciation I 3

SECOND YEAR — Fall Semester
- ___ ___ General Education Lab Science Elective 2 4
- COM 225 Why We Write: Writing for Elementary Students 3
- GEO 102 Cultural Geography 3
- PSY 203 Educational Psychology 3
- MAT ___ General Education Mathematics Elective 5 3-4

Spring Semester
- ENG LIT English Literature Elective 4 3
- EDU 130 Human Exceptionality 3
- SPE 101 Oral Communications 3
- MAT ___ General Education Mathematics Elective 5 3-4
- EDU 215 & 216 Principles and Pedagogies in the Inclusive Classroom & Seminar or EDU 220 Foundations of Inclusive Education 3

TOTAL MINIMUM CREDITS: 60

After completing the Education A.S., continue to the third year for the Inclusive Education 3+1 option.

Third Year, Fall Semester
- EDU 301 Literacy Pedagogy I 3
- EDU 320 Clinical Experience I in Inclusive Education 1
- EDU 315 Working with Families & Communities 3
- EDU 310 Differentiating Instruction in the Inclusive Classroom 2
- EDU 330 Trauma Informed Instruction 3
- EDU 305 Current Policy & Practice in ESL & Bilingual Edu 3

Third Year, Spring Semester
- EDU 318 Positive Behavior Support Systems 3
- EDU 327 Clinical Experience II in Inclusive Education 1
- EDU 335 Social Studies Methods for the Inclusive Classroom 3
- EDU 323 Assessment in Special & Inclusive Education 3
- EDU 340 Science Inquiry & Methods for the Inclusive Classroom 3
- EDU 302 Literacy Pedagogy II 2
- EDU 345 Mathematics Strategies for the Inclusive Classroom 2

TOTAL MINIMUM CREDITS: 17
Health, Physical Education and Recreation (HPER), A.S.

Program Requirements

**FIRST YEAR – Fall Semester**
- ENG 101 English Composition I 3
- MAT 101 Concepts of Math 3
- HPE 136 Nutrition 3
- HPE ___ HPE elective 1-3
- PSY 101 General Psychology 3

**Spring Semester**
- ENG 102 English Composition II 3
- ___ ___ Lab Science Elective 1 4
- SPE 101 Oral Communications 3
- HPE 211 Consumer Health Decisions 3
- HPE 245 Motor Development and Motor Learning 3

**SECOND YEAR – Fall Semester**
- EDU 205 History of American Education 3
- ART 101 Art Appreciation or MUS 101 Music Appreciation 3
- PSY 203 Educational Psychology 3
- HPE 122 Fundamentals of Health & Physical Education 1
- EDU 215 Principles Pedagogies Inclusive Classroom 2
- HPE 252 Foundations of Fitness 3

**Spring Semester**
- BIO 105 Anatomy and Physiology I or BIO 106 Anatomy and Physiology II 4
- PSY 212 Adolescent Psychology 3
- PHI 101 Introduction to Philosophy or PHI 104 Ethics 3
- EDU 130 Human Exceptionality 3
- HPE 233 Safety, First Aid, and Prevention of Athletic Injuries 3

**TOTAL MINIMUM CREDITS: 60**
Diagnostic Medical Sonography (DMS), A.A.S.  

Program 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

**Credits**
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

**Credits**
16

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

**Credits**
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

**Credits**
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

**Credits**
13

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

**Credits**
3

**TOTAL MINIMUM CREDITS: 66**

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**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.

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.

**Program Notes**

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

Program Goals

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

Places of Employment and Outlook

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

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

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

Graduate Outcomes

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

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

Program Requirements

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<td>BIO 101 General Biology</td>
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<td>HPE 240 Introduction to Health and Physical Education</td>
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<td>PSY 101 General Psychology</td>
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Spring Semester

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<td>ENG 102 English Composition II</td>
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<td>BIO 105 Anatomy and Physiology I</td>
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<tr>
<td>HPE 136 Nutrition</td>
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<td>MAT ___ Math General Education Elective</td>
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<td>HPE 170 Stress Management or</td>
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<td>BIO 102 General Biology II</td>
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SECOND YEAR — Fall Semester

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<td>BIO 106 Anatomy and Physiology II</td>
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<td>SPE 101 Oral Communications</td>
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<td>HPE 245 Motor Development and Motor Learning</td>
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<td>Humanities General Education Elective (ART 101 or MUS 101 recommended)</td>
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<td>HPE 252 Foundations of Fitness or CHM 111 General Chemistry</td>
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Spring Semester

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<td>HPE 233 Safety, First Aid and the Care and Prevention of Athletic Injuries</td>
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<td>HPE 211 Consumer Health Decisions</td>
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<td>SOC 101 Principles of Sociology or SOC 102 Sociology of the Family</td>
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<tr>
<td>HPE 265 Fitness Assessment and Exercise Prescription</td>
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<td>PSY 206 Psychopharmacology or HPE 270 Essentials of Personal Training</td>
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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
Health Science, A.A.S.

Program Requirements

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<tr>
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<td>ALH 102 Medical Terminology²</td>
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TOTAL MINIMUM CREDITS: 60

Course Banks

₁ Health Science Course Bank
ALH 104, ALH 112, ALH 115, ALH 119, ALH 125, HPE 201, HPE 211, HPE 192, NURS 102, NURS 105, NURS 107, HPE 193, HPE 192, ² ALH 102, ² ALH 140, ² HPE 136

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

³ General Program Course Bank
ART 101, ART 131, BIO 101, BIO 107, BIO 215, BUS 231, CHM 107, CHM 111, CHM 112, CIS 102, ENG 241, PHI 101, PHI 104, PHI 150, PHY 101, PHY 104, PSY 211, PSY 212, PSY 213, PSY 230, SOC 101, SOC 102, SPA 101, SPA 102, SPE 101

⁴ Math Course Bank
MAT 101, MAT 103, MAT 105, MAT 107, MAT 110, MAT 115
Students should seek advisement to ensure correct selection of these courses.
**Health Science — Diagnostic Medical Sonography, A.A.S.**

### Program Requirements

<table>
<thead>
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<th>Block</th>
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<td><strong>TOTAL MINIMUM CREDITS: 60</strong></td>
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### 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](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 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.

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*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](http://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.

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**ROWAN COLLEGE OF SOUTH JERSEY Gloucester Campus 2022-2023 Catalog | 61**
Health Science — Nuclear Medicine Technology, A.A.S.

Program Requirements

Credits

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
  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
  13

SECOND YEAR — Fall Semester, Spring Semester
- See Course Banks for electives* 33
  33

TOTAL MINIMUM CREDITS: 60

“Course Banks” on page 60

To learn more about the program or attend an information session, please visit [RCSJ.edu/gl/SelectiveAdmissions](http://RCSJ.edu/gl/SelectiveAdmissions).
Health Science — Nursing, A.A.S.

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 taken a high school biology and/or college biology course BIO 107 Human Biology and a high school chemistry and/or college chemistry course CHM 107 Introductory Chemistry
- Once a student has been accepted into the Nursing program, their degree will be changed

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

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 Elective 1 9
- General Program Course Bank Elective 2 3

Total 16

Spring Semester
- Health Science Course Bank Elective 1 8
- General Program Course Bank Elective 2 7

Total 15

Total Minimum Credits: 60

1 Health Science Course Bank Electives
ALH 104, ALH 112, ALH 115, ALH 119, ALH 125, HPE 201, HPE 211, HPE 192, NURS 102, NURS 105, NURS 107, HPE 193, ALH 140, ALH 102
Degree requires a minimum of 16 Health Science course credits and a final grade of “C” or better in all courses.

2 General Program Course Bank Electives
ART 101, ART 131, BIO 101, BIO 107, BUS 231, CHM 107, CHM 111, CHM 112, CIS 102, ENG 241, MAT 101, MAT 103*, MAT 105, MAT 107, MAT 110, MAT 115, PHI 101, PHI 104, PHI 150, PHY 101, PHY 104, PSY 212, PSY 213, PSY 230, SOC 102, SPA 101, SPA 102, SPE 101
Students should seek advisement to ensure correct selection of these courses. *MAT 103 recommended for Nursing.
**Health Science — Physical Therapist Assistant, A.A.S.**

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tr>
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<tr>
<td>ENG 101 English Composition I</td>
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<tr>
<td>BIO 105 Anatomy and Physiology I</td>
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<td>PSY 101 General Psychology</td>
<td>3</td>
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<tr>
<td>MAT 115 College Geometry</td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>ENG 102 English Composition II</td>
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<td>BIO 106 Anatomy and Physiology II</td>
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<td><strong>TOTAL MINIMUM CREDITS: 60</strong></td>
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</table>

¹ Health Science Course Bank Electives

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

Degree requires a minimum of 16 Health Science course credits and a final grade of “C” or better in all courses. Students should seek advisement to ensure correct selection of these courses.

To learn more about the program or attend an information session, please visit [RCSJ.edu/gc/SelectiveAdmissions](http://RCSJ.edu/gc/SelectiveAdmissions).
Health Science — Respiratory Therapy, A.A.S.

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
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<tr>
<td>ENG 101 English Composition I</td>
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<tr>
<td>BIO 107 Human Biology</td>
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<td>PSY 101 General Psychology</td>
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<tr>
<td>MAT 105 Intermediate Algebra</td>
<td>3</td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>ENG 102 English Composition II</td>
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<tr>
<td>MAT 103 Statistics</td>
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<tr>
<td>ALH 102 Medical Terminology</td>
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<tr>
<td>SOC 130 Society, Ethics &amp; Technology</td>
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<tr>
<td>CHM 111 General Chemistry I</td>
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<td>16</td>
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<tr>
<td><strong>SECOND YEAR — Fall Semester</strong></td>
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<tr>
<td>BIO 105 Anatomy and Physiology I</td>
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</tr>
<tr>
<td>SOC 101 Principles of Sociology</td>
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<td>ALH 140 Biomedical Ethics</td>
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<td>PSY 211 Psychology of Human Development</td>
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<td>Humanities Elective</td>
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<td><strong>Spring Semester</strong></td>
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<tr>
<td>BIO 106 Anatomy and Physiology II</td>
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<tr>
<td>HPE 105 Healthcare Provider Emergency Response w/BLS Certification</td>
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<tr>
<td>ALH 104 Patient Care</td>
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<td>BIO 215 Microbiology</td>
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<tr>
<td>Free Electives</td>
<td>4</td>
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<td></td>
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</table>

**TOTAL MINIMUM CREDITS: 60**

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[Health Science — Respiratory Therapy, A.A.S.](#)
Nuclear Medicine Technology (NMT), A.A.S.

Program Requirements

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Credits</th>
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<td>ENG 101 English Composition I</td>
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<tr>
<td>BIO 105 Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>CHM 111 General Chemistry I</td>
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<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>14</td>
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<tr>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 106 Anatomy and Physiology II</td>
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<td>PHY 103 General Physics</td>
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<td>ALH 107 Cross Sectional Anatomy</td>
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<tr>
<td>Summer Session I (first 7 weeks)</td>
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<tr>
<td>NMT 106 Radiation Safety and Biology</td>
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<tr>
<td>NMT 107 Radiation Physics</td>
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<td></td>
<td>3</td>
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<tr>
<td>Summer Session (second 7 weeks)</td>
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<tr>
<td>NMT 114 Clinical Imaging Procedures I</td>
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<tr>
<td>NMT 116 Basic Nuclear Medicine Procedures</td>
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<td></td>
<td>4</td>
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<td>SECOND YEAR – Fall Semester</td>
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<tr>
<td>NMT 205 Clinical Internship I</td>
<td>10</td>
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<tr>
<td>NMT 210 Clinical Imaging Procedures II</td>
<td>1</td>
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<tr>
<td>NMT 215 Radiopharmacy</td>
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<td>Spring Semester</td>
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<tr>
<td>NMT 227 Clinical Internship II</td>
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<tr>
<td>NMT 230 Nuclear Instrumentation and Statistics</td>
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<td>NMT 233 Clinical Imaging Procedures III</td>
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<tr>
<td>TOTAL MINIMUM CREDITS: 60</td>
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</table>

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 LPN-RN, A.A.S.

Program Requirements

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

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

**Winter Semester**

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

**Spring Semester**

- ENG 102 English Composition II
- BIO 106 Anatomy and Physiology II
- NURS 120 Nursing II
- NURS 121 Nursing II Lab

**SECOND YEAR — Fall Semester**

- BIO 215 Microbiology
- NURS 230 Nursing III
- NURS 231 Nursing III Lab

**Spring Semester**

- NURS 240 Nursing IV
- NURS 245 Transition to Practice
- NURS 210 Nursing Global Issues and Trends

**TOTAL CREDITS: 60**

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 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 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.

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.

Outcomes

Graduates of the Nursing program will:
- Apply principles of evidence-based practice to patient care
- Value interprofessional and community partners collaboration
- Demonstrate ethical and professional nursing practice
- Implement life-long learning endeavors

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)
Nursing (NURS), A.A.S.
This is a 3+1 option program with Rowan University.

**FIRST YEAR — Fall Semester**

**Year 1, 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

Total Credits 17

**Year 1, 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

Total Credits 17

**Year 2, Fall Semester**
- BIO 215 Microbiology 4
- NURS 230 Nursing III 8
- NURS 231 Nursing Lab III 1

Total Credits 13

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

Total Credits 13

**Total Credits 60**

After completing the Nursing A.A.S., continue to the third year for the Nursing 3+1 option.

**Year 3, 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

Total Credits 15

**Year 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

Total Credits 15

Nursing Generic Program continues on next page.
Nursing Generic Program continued

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 five years before reapplying to the Nursing program.

A minimum grade of “C+” is required in all courses in the Nursing Program of Study including General Education and Science courses.

Employment Opportunities
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)

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.
**Nutrition, A.S.**

**Program Requirements**

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<th>Cr edits</th>
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<td>CHM 111 General Chemistry I</td>
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<td>ENG 101 English Composition I</td>
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<td>NTR 105 Introduction to Nutrition Professions</td>
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<td><strong>Spring Semester</strong></td>
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<tr>
<td>CHM 112 General Chemistry II</td>
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<td>BIO 106 Anatomy and Physiology II</td>
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<td>PSY 101 General Psychology</td>
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<td>ENG 102 English Composition</td>
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<td><strong>SECOND YEAR — Fall Semester</strong></td>
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<td>NTR 101 Nutrition for Health Professions</td>
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<td>MAT 103 Statistics</td>
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<td>CHM 201 Organic Chemistry I</td>
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<td>SPE 101 Oral Communication</td>
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<td><strong>Spring Semester</strong></td>
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<td>SOC 101 Principles of Sociology OR SOC 102 Sociology of the Family</td>
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<td>CHM 202 Organic Chemistry II</td>
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<td>BIO 102 General Biology II</td>
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<td>Humanities Elective (ART 101 or MUS 101 recommended)</td>
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<td>HPE or ALH Elective</td>
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<td><strong>15-17</strong></td>
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</table>

**TOTAL MINIMUM CREDITS: 60**

Four Semester Sequence of Courses all needs to be aligned

*This is a 2+2 program with Rowan University.*

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**Program Learning Outcomes**

- Identify professional characteristics of a Registered Dietitian/nutrition professional including education and training requirements. (Introduction to Nutrition Professions)
- Summarize the roles and responsibilities of nutrition professionals in a variety of practice settings. (Introduction to Nutrition Professions)
- Apply nutrition, digestion and metabolic pathway concepts into practice. (Nutrition for Health Professions)
- 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. (Statistics, Gen Chemistry I and II, Organic Chemistry I and II, Anatomy and Physiology I and II, Gen Biology I and II)

**Program Notes**

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

**Contact Person**

Rosemary O'Dea, Assistant Professor, Nutrition
rodea@rcsj.edu

**Advisement**

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

Cr edits

RCSJ.edu

NURSING AND HEALTH PROFESSIONS

[252x643]Program Requirements       Cr edits
RCSJ.edu
NURSING AND HEALTH PROFESSIONS

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

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

Program Information

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

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

Program Goals

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

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

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

RCSJ.edu

Physical Therapist Assistant, A.A.S.

Program Requirements

FIRST YEAR — Summer Semester

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<thead>
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<th>Course Description</th>
<th>Credits</th>
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<tr>
<td>MAT 115 College Geometry</td>
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Fall Semester

<table>
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<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td>ENG 102 English Composition II</td>
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<tr>
<td>PSY 101 General Psychology</td>
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Fall 1 - 7 weeks

<table>
<thead>
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<th>Course Description</th>
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<tbody>
<tr>
<td>BIO 105 Anatomy and Physiology I</td>
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Fall 2 - 7 weeks

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<tr>
<td>BIO 106 Anatomy and Physiology II</td>
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Spring Semester

<table>
<thead>
<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td>PTA 101 Introduction to Physical Therapist Assisting</td>
<td>1</td>
</tr>
<tr>
<td>PTA 102 Kinesiology and Measurement</td>
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<tr>
<td>HPE 106 Health and Wellness Promotion in PT</td>
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Summer Semester

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<tbody>
<tr>
<td>PTA 105 Pathophysiology for the PTA</td>
<td>2</td>
</tr>
<tr>
<td>PTA 107 Essential Skills I: Patient Care</td>
<td>4</td>
</tr>
<tr>
<td>PTA 210 Orthopedics for the PTA</td>
<td>1</td>
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SECOND YEAR — Fall Semester

<table>
<thead>
<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td>PTA 207 Essential Skills II: Biophysical Agents</td>
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<tr>
<td>PTA 208 Neurological d/o Across the Lifespan</td>
<td>4</td>
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<tr>
<td>PTA 209 Clinical Experience I</td>
<td>2</td>
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<tr>
<td>PTA 216 Cardiovascular and Pulmonary PT</td>
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<td><strong>Total Credits</strong></td>
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Spring Semester

<table>
<thead>
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<th>Course Description</th>
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<tbody>
<tr>
<td>PTA 239 Clinical Experience III</td>
<td>6</td>
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<tr>
<td>PTA 240 Seminar in PTA Professionalism</td>
<td>1</td>
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<tr>
<td><strong>Total Minimum Credits:</strong></td>
<td><strong>60</strong></td>
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</table>

Expected Student Outcomes

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

1. Qualify to take the National Physical Therapy Examination for Physical Therapist Assistants
2. Demonstrate behavior consistent with the PTA’s established core values of accountability, altruism, compassion and caring, cultural competence, duty, integrity and social responsibility
3. Work within the scope of practice as defined by the physical therapy licensing act and all pertaining laws and regulations of the state of practice
4. Use sound judgment for evidence-informed decision making through critical thinking and problem solving
5. Identify career development and lifelong learning opportunities

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

6. Exhibit professional behaviors in the role as a responsible physical therapist assistant by providing safe, ethical and legal care
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](http://www.capteonline.org).

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

**Physical Therapist Assistant continued**

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 Health and Wellness Promotion in Physical Therapy or any PTA courses. Please contact the Enrollment Services office for an admission packet.

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

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

**Admission Requirements**

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

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

The most up-to-date application information is on the College’s website at [RCSJ.edu/gc/SelectiveAdmissions](http://www.capteonline.org).

**Program Notes**

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

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

**Advisement**

Current students please visit [RCSJ.edu/gc/Advisement](http://www.capteonline.org) to schedule an appointment with your academic advisor. Future students please visit [RCSJ.edu/gc/Appointments](http://www.capteonline.org) to learn more about how to get started.
**Arts and Sciences, A.S.**

**Program Requirements**

<table>
<thead>
<tr>
<th><strong>FIRST YEAR — Fall Semester</strong></th>
<th><strong>Credits</strong></th>
</tr>
</thead>
<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)</td>
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<tr>
<td><strong>TOTAL</strong></td>
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**Spring Semester**

<table>
<thead>
<tr>
<th><strong>Credits</strong></th>
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<tbody>
<tr>
<td>ENG 102 English Composition II</td>
</tr>
<tr>
<td>MAT 107 Pre-Calculus and Mathematical Analysis</td>
</tr>
<tr>
<td>____ ____ Science elective pair I (second semester)</td>
</tr>
<tr>
<td>____ ____ Social Science or ____ ____ Humanities General Education elective</td>
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<tr>
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**SECOND YEAR — Fall Semester**

<table>
<thead>
<tr>
<th><strong>Credits</strong></th>
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</thead>
<tbody>
<tr>
<td>MAT 108 Calculus I</td>
</tr>
<tr>
<td>____ ____ Science elective pair II (first semester)</td>
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<tr>
<td>____ ____ Science/Mathematics elective</td>
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<tr>
<td>____ ____ Humanities General Education elective</td>
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<tr>
<td>HPE ____ Health and Physical Education elective or ____ ____ Free elective</td>
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**Spring Semester**

<table>
<thead>
<tr>
<th><strong>Credits</strong></th>
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<tr>
<td>____ ____ Science elective pair II (second semester)</td>
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<td>____ ____ 200-level Science elective</td>
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<tr>
<td>____ ____ General Education elective</td>
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<td>____ ____ Social Science General Education elective</td>
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<tr>
<td><strong>TOTAL</strong></td>
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</table>

**TOTAL MINIMUM CREDITS: 60**

**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 in the first semester ... you must take this course in the second semester:
  - BIO 101
  - BIO 105
  - BIO 112
  - BIO 115
  - CHM 111
  - CHM 201
  - PHY 103
  - PHY 201

2 One science course must be selected from the following:
  - 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 110, PHY 111, PHY 112, PHY 201, SCI 201.

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.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
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<tr>
<td>ENG 101 English Composition I</td>
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</tr>
<tr>
<td>PHY 121 Physics for Everyday Life or</td>
<td>4</td>
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<tr>
<td>PHY 105 Modern Astronomy</td>
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<tr>
<td>CHM 111 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 108 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
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<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 201 Physics I (calculus-based)</td>
<td>4</td>
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<tr>
<td>CHM 112 General Chemistry II</td>
<td>4</td>
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<td>MAT 122 Calculus II</td>
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<td><strong>SECOND YEAR — Fall Semester</strong></td>
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<tr>
<td>PHY 202 Physics II (calculus-based)</td>
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<td>MAT 221 Calculus III</td>
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<td>MAT 202 Linear Algebra</td>
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<td><strong>Spring Semester</strong></td>
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<tr>
<td>MAT 205 Differential Equations</td>
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<td>PHY 203 Physics III (calculus-based)</td>
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<td>___ ___ Social Science elective</td>
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Biology, A.S.

Program Requirements

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<td>BIO 101 General Biology I</td>
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<td>CHM 111 General Chemistry I</td>
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<th>Spring Semester</th>
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<td>ENG 102 English Composition II</td>
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<td>BIO 102 General Biology II</td>
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<td>CHM 112 General Chemistry II</td>
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<tr>
<td>COM 105 Technical and Scientific Writing</td>
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<tr>
<th>SECOND YEAR — Fall Semester</th>
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<tbody>
<tr>
<td>CHM 201 Organic Chemistry I</td>
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<tr>
<td>BIO 209 Ecology</td>
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<tr>
<td>CSC 101 Introduction to Programming or CSC 111 Intermediate Programming</td>
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<tbody>
<tr>
<td>CHM 202 Organic Chemistry II</td>
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<tr>
<td>BIO 215 Microbiology or BIO 221 Cell and Molecular Biology*</td>
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<td>Social Science or Humanities elective</td>
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<td>HPE Health and Physical Education elective</td>
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<td>Humanities elective</td>
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</table>

**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.

Contact Person

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

Advisement

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

Advisement

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

Biology: Bioscience Technologies Option, A.S.

Program Requirements

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<thead>
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<th>First Year — Fall Semester</th>
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<tr>
<td>ENG 101 English Composition I</td>
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<tr>
<td>BIO 101 General Biology I</td>
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<tr>
<td>CHM 111 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 107 Pre-Calculus and Math Analysis</td>
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<table>
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<tbody>
<tr>
<td>ENG 102 English Composition II</td>
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<tr>
<td>BIO 102 General Biology II</td>
</tr>
<tr>
<td>CHM 112 General Chemistry II</td>
</tr>
<tr>
<td>MAT 108 Calculus I</td>
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<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>Second Year — Fall Semester</th>
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<tbody>
<tr>
<td>BIO 209 Ecology</td>
</tr>
<tr>
<td>BIO 215 Microbiology</td>
</tr>
<tr>
<td>__ __ Social Science elective</td>
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<tr>
<td>__ __ Humanities elective</td>
</tr>
<tr>
<td>BIO 105 Anatomy and Physiology I</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>CHM 201 Organic Chemistry I</td>
</tr>
<tr>
<td>BIO 221 Cell and Molecular Biology</td>
</tr>
<tr>
<td>__ __ Social Science or __ __ Humanities elective</td>
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<tr>
<td>HPE ___ HPE elective</td>
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<tr>
<td>BIO 106 Anatomy and Physiology II</td>
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<td><strong>Total Minimum Credits</strong>:</td>
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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.

Program Requirements

<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FIRST YEAR — Fall Semester</td>
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</tr>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 101 General Biology I</td>
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</tr>
<tr>
<td>CHM 111 General Chemistry I</td>
<td>4</td>
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<tr>
<td>MAT 108 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
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<tr>
<td>Spring Semester</td>
<td></td>
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<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
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<tr>
<td>____ ____ General Education Elective¹</td>
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<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>
<td>3</td>
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<td><strong>Total</strong></td>
<td>17-18</td>
</tr>
<tr>
<td>SECOND YEAR — Fall Semester</td>
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<tr>
<td>CHM 201 Organic Chemistry I</td>
<td>4</td>
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<tr>
<td>PHY 201 Physics I (calculus-based)</td>
<td>4</td>
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<tr>
<td>____ ____ Humanities General Education Elective</td>
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<td>____ ____ Program Elective²</td>
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<td><strong>Total</strong></td>
<td>14-15</td>
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<td>Spring Semester</td>
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</tr>
<tr>
<td>CHM 202 Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 202 Physics II (calculus-based)</td>
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<td>____ ____ Social Science General Education Elective or</td>
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<tr>
<td>____ ____ Humanities General Education Elective³</td>
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<tr>
<td>____ ____ Social Science General Education elective</td>
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<td><strong>Total</strong></td>
<td>14</td>
</tr>
<tr>
<td><strong>TOTAL MINIMUM CREDITS: 60</strong></td>
<td></td>
</tr>
</tbody>
</table>

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.

Program Requirements

<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
<td></td>
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<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 111 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 101 General Biology I</td>
<td>4</td>
</tr>
<tr>
<td>___ ___ General Education Elective$^1$</td>
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<tr>
<td>HPE ___ Health and Physical Education Elective$^2$</td>
<td>1–3</td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>ENG 102 English Composition</td>
<td>3</td>
</tr>
<tr>
<td>CHM 112 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 102 General Biology II$^3$</td>
<td>4</td>
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<tr>
<td>MAT 108 Calculus I</td>
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<td>___ ___ Social Science General Education Elective</td>
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<td></td>
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<tr>
<td><strong>SECOND YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>CHM 201 Organic Chemistry I</td>
<td>4</td>
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<tr>
<td>PHY 103 General Physics I</td>
<td>4</td>
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<tr>
<td>BIO 105 Anatomy &amp; Physiology I$^4$</td>
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<tr>
<td>BIO 215 Microbiology</td>
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<td></td>
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<td><strong>Spring Semester</strong></td>
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<tr>
<td>CHM 202 Organic Chemistry II</td>
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<tr>
<td>PHY 104 General Physics II$^5$</td>
<td>4</td>
</tr>
<tr>
<td>BIO 106 Anatomy and Physiology II$^4$</td>
<td>4</td>
</tr>
<tr>
<td>___ ___ Social Science or Humanities Elective</td>
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<tr>
<td>___ ___ Humanities General Education Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

**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.

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

Contact Person

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

Advisement

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

**Program Requirements**

<table>
<thead>
<tr>
<th>FIRST YEAR – Fall Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 205 Programming in C++</td>
<td>4</td>
</tr>
<tr>
<td>ENG 101 English Composition I</td>
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<tr>
<td>MAT 108 Calculus I</td>
<td>4</td>
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<tr>
<td>Humanities General Education Elective</td>
<td>3</td>
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<tr>
<td>Social Science General Education Elective</td>
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<td><strong>Total</strong></td>
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<table>
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<tr>
<th>Spring Semester</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CSC 210 Object Oriented Programming in Java</td>
<td>4</td>
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<tr>
<td>ENG 102 English Composition II</td>
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<tr>
<td>MAT 122 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 201 Physics with Calculus I</td>
<td>4</td>
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<td><strong>Total</strong></td>
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**SECOND YEAR - Fall Semester**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 203 Assembly Language and Computer Organization</td>
</tr>
<tr>
<td>CSC 216 Objects and Data Abstraction using Java</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>CSC 220 Data Structures and Algorithms</td>
</tr>
<tr>
<td>MAT 201 Discrete Mathematics</td>
</tr>
<tr>
<td>PHY 202 Physics with Calculus II</td>
</tr>
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<td><strong>Total</strong></td>
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</tbody>
</table>

**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

**Contact Person**

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

**Advisement**

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

Program Requirements

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 ___ Program Elective 3
- PHY 201 Physics I (calculus-based) 4
- ENR 103 First Year Engineering Clinic II 2
- ENR 207 Engineering Materials or ___ Program Elective 3
- 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 ___ Free Elective or ___ Program Elective 1
- PHY 202 Physics with Calculus II or ___ Program Elective 3
- ___ Humanities elective or ___ Social Science elective 3

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

TOTAL MINIMUM CREDITS: 60

Program Electives

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<thead>
<tr>
<th>Mechanical</th>
<th>Electrical/Computer</th>
<th>Civil</th>
<th>Chemical</th>
<th>Biomedical</th>
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<tr>
<td>PHY 202</td>
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<td>MAT 202</td>
<td>CHM 112</td>
<td>CHM 112</td>
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<td>ENR 207</td>
<td>MAT 202</td>
<td>SPE 101</td>
<td>MAT 202</td>
<td>PHY 202</td>
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<td>MAT 202</td>
<td>SPE 101</td>
<td>GEO 115</td>
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<td>MAT 202</td>
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<td>SPE 101</td>
<td>CSC 220</td>
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<td>CHM 201</td>
<td>SPE 101</td>
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<tr>
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<td>ENR 108</td>
<td>ENR 211</td>
<td>CHM 202</td>
<td>BIO 101</td>
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<tr>
<td>ENR 212</td>
<td>ENR 218</td>
<td>ENR 212</td>
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<tr>
<td>ENR 213</td>
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<td>ENR 213</td>
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<td></td>
</tr>
</tbody>
</table>

Contact Person
Gayle Hughes, Assistant Professor,
Engineering
g Hughes@rcsj.edu

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

Engineering Science, COAs

Program Requirements

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 101 General Biology I</td>
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<tr>
<td>CHM 112 General Chemistry II</td>
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</tr>
<tr>
<td>MAT 202 Linear Algebra</td>
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<td>PHY 202 Physics II</td>
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</tr>
<tr>
<td>SPE 101 Oral Communication</td>
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</table>

TOTAL CREDITS: 18

Biomedical Engineering
[COA-CACS; CIP Code 15.1001]

Core Courses

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SPE 101 Oral Communication</td>
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</tr>
<tr>
<td>MAT 202 Linear Algebra</td>
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</tr>
<tr>
<td>ENR 207 Engineering Materials</td>
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<tr>
<td>ENR 211 Engineering Statics</td>
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<tr>
<td>ENR 212 Mechanics of Materials</td>
<td>3</td>
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<tr>
<td>ENR 213 Dynamics</td>
<td>3</td>
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<tr>
<td>GEO 115 Geographical Information Systems</td>
<td>3</td>
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<tr>
<td>CET 108 Introduction to Surveying</td>
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<tr>
<td>DFT 103 CADD I (AutoCAD)</td>
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</table>

TOTAL CREDITS: 27

Civil Engineering
[COA-CACE; CIP Code 14.0101]

Core Courses

<table>
<thead>
<tr>
<th>Core Courses</th>
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<tbody>
<tr>
<td>SPE 101 Oral Communication</td>
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</tr>
<tr>
<td>MAT 202 Linear Algebra</td>
<td>3</td>
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<tr>
<td>ENR 207 Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>ENR 211 Engineering Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENR 212 Mechanics of Materials</td>
<td>3</td>
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<tr>
<td>ENR 213 Dynamics</td>
<td>3</td>
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<tr>
<td>CEE 100 Introduction to Surveying</td>
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TOTAL CREDITS: 20

Chemical Engineering
[COA-CACH; CIP Code 14.0101]

Core Courses

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SPE 101 Oral Communication</td>
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<tr>
<td>MAT 202 Linear Algebra</td>
<td>3</td>
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<tr>
<td>CHM 201 Organic Chemistry I</td>
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<tr>
<td>CHM 202 Organic Chemistry II</td>
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</table>

TOTAL CREDITS: 20

Electrical Engineering
[COA--; CIP Code 15.]

Core Courses

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SPE 101 Oral Communication</td>
<td>3</td>
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<tr>
<td>MAT 202 Linear Algebra</td>
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<tr>
<td>CSC 220 Data Structures and Algorithms</td>
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<tr>
<td>ENR 108 Digital Electronics for Engineering</td>
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<tr>
<td>ENR 218 Principles of Electrical Circuit Analysis</td>
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TOTAL CREDITS: 17

Mechanical Engineering
[COA-CAMC; CIP Code 14.0101]

Core Courses

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SPE 101 Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>MAT 202 Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>ENR 207 Engineering Materials</td>
<td>3</td>
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<tr>
<td>ENR 211 Engineering Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENR 212 Mechanics of Materials</td>
<td>3</td>
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<tr>
<td>ENR 213 Dynamics</td>
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</table>

TOTAL CREDITS: 18
Environmental Science, A.S.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<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>MAT 107 Pre-Calculus and Mathematical Analysis</td>
<td>4</td>
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<tr>
<td>BIO 103 Environmental Science: Ecosystems and Man</td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
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<tr>
<td>BIO 102 General Biology II</td>
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<tr>
<td>BIO 104 Environmental Science: Pollutions &amp; Solutions</td>
<td>4</td>
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<tr>
<td>CHM 111 General Chemistry I</td>
<td>4</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
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<tr>
<td><strong>SECOND YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>COM 105 Technical and Scientific Writing</td>
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<tr>
<td>BIO 209 Ecology: Principles and Processes</td>
<td>4</td>
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<tr>
<td>GEO 115 Introduction to Geographic Information Systems</td>
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<tr>
<td>MAT 108 Calculus I</td>
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<tr>
<td><strong>Total</strong></td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>MAT 103 Statistics</td>
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<tr>
<td>Program Elective(^1)</td>
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<tr>
<td>Humanities General Education Elective</td>
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<tr>
<td>SOC 101 Principles of Sociology</td>
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<tr>
<td>ECO 101 Introduction to Economics (Macro)</td>
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<td><strong>Total</strong></td>
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</table>

**TOTAL MINIMUM CREDITS: 60**

\(^1\) Program Electives (Select 1)
PHY 121 Physics for Everyday Life
PHY 103 Physics I
CHM 112 Chemistry II
PHY 111 Earth Science: Land and Sea
PHY 112 Earth Science: Air and Space

Please see an adviser at RCSJ or at your transfer school.
Equine Science, A.S.

Program Requirements

<table>
<thead>
<tr>
<th>Program Learning Outcomes</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Students who have completed the program will be able to:</td>
<td></td>
</tr>
<tr>
<td>• Demonstrate knowledge of theory and practical experience in anatomy, physiology, nutrition, behavior, health and reproduction of the horse</td>
<td></td>
</tr>
<tr>
<td>• Relate principles of science, technology and business to the equine industry while appraising and utilizing primary literature in written and oral communication</td>
<td></td>
</tr>
<tr>
<td>• Apply critical thinking and problem-solving skills to evaluating horses, horse management and facilities</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

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

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

TOTAL MINIMUM CREDITS: 60

FIRST YEAR — Fall Semester
- ENG 101 English Composition I 3
- BIO 101 General Biology I 4
- BIO 116 Animal Science 4
- MAT ___ Math elective¹ 3-4
  14-15

Spring Semester
- ENG 102 English Composition II 3
- BIO 102 General Biology II 4
- MAT ___ Math elective¹ 4
- BIO 115 Introduction to Equine Science 4
  15

SECOND YEAR — Fall Semester
- BIO 216 Equine Capstone Practicum 3
- CHM 111 General Chemistry I 4
- ECO 101 Principles of Economics (Macro) 3
- PSY 101 General Psychology 3
- ___ ___ Humanities elective 3
  16

Spring Semester
- CHM 112 General Chemistry II 4
- ECO 102 Principles of Economics II (Micro) 3
- ___ ___ Science elective 4
- ___ ___ Free elective 3-4
- ___ ___ HPE or Free elective 1-3
  15-18

TOTAL MINIMUM CREDITS: 60

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

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

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

Equine Science, COA

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Courses</strong></td>
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<tr>
<td>BIO 116 Animal Science</td>
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<tr>
<td>BIO 115 Introduction to Equine Science</td>
<td>4</td>
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<tr>
<td>BIO 216 Equine Capstone Practicum</td>
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<tr>
<td>BIO ___ Biology elective</td>
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<td><strong>TOTAL CREDITS: 15</strong></td>
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</table>
Equine Science: Pre-Veterinary Medicine Option, A.S.

Program Requirements

<table>
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<tr>
<th>Credit</th>
<th>Course Options</th>
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<tbody>
<tr>
<td>FIRST YEAR — FIRST SEMESTER</td>
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<tr>
<td>4</td>
<td>BIO 101 General Biology I</td>
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<td>4</td>
<td>BIO 116 Animal Science</td>
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<td>3–4</td>
<td>MAT ___ Mathematics elective¹</td>
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<td>CHM 111 General Chemistry I</td>
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<td>15–16</td>
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<td>4</td>
<td>BIO 102 General Biology II</td>
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<tr>
<td>4</td>
<td>BIO 115 Introduction to Equine Science</td>
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<td>ENG 101 English Composition I</td>
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<td>___ ___ Humanities elective</td>
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<td>CHM 112 General Chemistry II</td>
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<td>THIRD SEMESTER</td>
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<td>ENG 102 English Composition II</td>
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<td>BIO 216 Equine Capstone Practicum</td>
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<tr>
<td>4</td>
<td>MAT ___ Mathematics elective¹</td>
</tr>
<tr>
<td>4</td>
<td>CHM 201 Organic Chemistry I</td>
</tr>
<tr>
<td>17</td>
<td></td>
</tr>
<tr>
<td>FOURTH SEMESTER</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>PHY 103 General Physics</td>
</tr>
<tr>
<td>4</td>
<td>CHM 202 Organic Chemistry II</td>
</tr>
<tr>
<td>4</td>
<td>___ ___ Science elective²</td>
</tr>
<tr>
<td>3</td>
<td>PSY 101 General Psychology</td>
</tr>
<tr>
<td>2</td>
<td>HPE ___ Health and Physical Education elective</td>
</tr>
<tr>
<td>16–18</td>
<td>TOTAL MINIMUM CREDITS: 66</td>
</tr>
</tbody>
</table>

Program Notes

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

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

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 111 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 101 General Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 112 Introduction to Marine Biology</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL MINIMUM CREDITS:</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 102 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 112 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 102 General Biology II</td>
<td>4</td>
</tr>
<tr>
<td>PHI 104 Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HPE ___ Health and Physical Education elective</td>
<td>2–3</td>
</tr>
<tr>
<td><strong>TOTAL MINIMUM CREDITS:</strong></td>
<td>16–17</td>
</tr>
<tr>
<td><strong>SECOND YEAR — Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 212 Wetlands Field Ecology</td>
<td>4</td>
</tr>
<tr>
<td>PHY 103 General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 103 Statistics or</td>
<td></td>
</tr>
<tr>
<td>MAT 107 Pre-calculus and Math Analysis</td>
<td>3–4</td>
</tr>
<tr>
<td>___ ___ Social Science elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL MINIMUM CREDITS:</strong></td>
<td>14–15</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>PHY 104 General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 108 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 2 ___ 200-level BIO elective1 or</td>
<td></td>
</tr>
<tr>
<td>CHM 201 Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>___ ___ Social Science elective or</td>
<td></td>
</tr>
<tr>
<td>___ ___ Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL MINIMUM CREDITS:</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

Program Learning Outcomes

Students who have completed the program will be able to:

- Apply scientific foundation to support upper-level study in marine science as well as related disciplines
- Define marine ecosystems and the diversity of marine organisms
- Integrate learned material with current research to formulate ideas concerning a sustainable future

Program Notes

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

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

Contact Person

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

Advisement

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

Program Requirements

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 Minimum Credits: 15-18

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

Total Minimum Credits: 15-18

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

Total Minimum 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 Minimum 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.

Program Learning Outcomes

Students who have completed the program will be able to:
- Demonstrate theoretical knowledge in advanced mathematics
- Perform abstract mathematical reasoning
- Read, interpret and analyze quantitative information
- Apply mathematical concepts and solve problems

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

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

Program Requirements

<table>
<thead>
<tr>
<th>Program Learning Outcomes</th>
</tr>
</thead>
</table>

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

Advisement

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

RCSJ.edu

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

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

SECOND YEAR — Fall Semester

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

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

TOTAL MINIMUM CREDITS: 60

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.
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.

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

Surveying Engineering Technologies, COAs

Program Requirements

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

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

Drafting and Design
[COA-CADD; CIP Code 15.1302]
Core Courses
- 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
- 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
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

<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>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Communication (Written and Oral Com.)</td>
<td>9</td>
<td>6</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Mathematics – Science – Technology * Mathematics 3-8 cr. (Quant. Knlg. &amp; Skills)</td>
<td>6</td>
<td>9</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>· Mathematics 3-8 cr. (Quant. Knlg. &amp; Skills) * Science 3-8 cr. (Sci. Knlg. &amp; Rsng.)</td>
<td>6</td>
<td>9</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>· Science 3-8 cr. (Sci. Knlg. &amp; Rsng.) * Technological Competency 0-4 cr.</td>
<td>6</td>
<td>9</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Social Science (Society and Human Behavior)</td>
<td>6</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Humanities (Humanistic Perspective)</td>
<td>6</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>History (Historical Perspective)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Diversity Courses (Global &amp; Cult. Avns.)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unassigned general education credit</td>
<td>6</td>
<td>8</td>
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</tr>
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<td></td>
<td>General Education Foundation Total</td>
<td>33</td>
<td>30</td>
<td>20</td>
<td>6</td>
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</tbody>
</table>

### General Education Foundation Course Categories

<table>
<thead>
<tr>
<th>Gen. Ed. Foundation Course Categories</th>
<th>NJCC Goal Categories*</th>
<th>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).</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Communication</td>
<td>1 Written and Oral Communication</td>
<td>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.</td>
</tr>
<tr>
<td>2 Mathematics</td>
<td>2 Quantitative Knowledge and Skills</td>
<td>Any college level mathematics course including statistics, algebra, or calculus course(s). These courses should build upon a demonstrated proficiency in basic algebra.</td>
</tr>
<tr>
<td>3 Science</td>
<td>3 Scientific Knowledge and Reasoning</td>
<td>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.</td>
</tr>
<tr>
<td>4 Technology</td>
<td>4 Technological Competency</td>
<td>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.</td>
</tr>
<tr>
<td>5 Social Science</td>
<td>5 Society and Human Behavior</td>
<td>Any introductory course(s) from among anthropology, economics, geography, political science, psychology, or sociology.</td>
</tr>
<tr>
<td>6 Humanities</td>
<td>6 Humanistic Perspective</td>
<td>Any broad-based course(s) in the appreciation of art, music, or theater; literature; foreign language; history; philosophy and/or religious studies.</td>
</tr>
<tr>
<td>7 History</td>
<td>7 Historical Perspective</td>
<td>Any broad-based course(s) or sequence of courses in World, Western, non-Western, or American History.</td>
</tr>
<tr>
<td>8 Diversity Courses</td>
<td>8 Global and Cultural Awareness</td>
<td>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.</td>
</tr>
</tbody>
</table>

### General Education Integrated Course Goal

<table>
<thead>
<tr>
<th>Course Criteria: Below are brief descriptions of the course criteria for satisfying the requirements. For fuller descriptions, see the NJCC GE Course Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethical Reasoning and Action</td>
</tr>
<tr>
<td>Information Literacy</td>
</tr>
</tbody>
</table>

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

### Programs

<table>
<thead>
<tr>
<th>Programs</th>
<th>Allocation Notes: The credit allocation below is consistent with the 1997 NJCC Gen. Ed. Foundation grid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA</td>
<td>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)</td>
</tr>
<tr>
<td>AS</td>
<td>The Associate in Science (AS) degree requires a minimum of 30 semester credits hours from among the indicated categories, with minimum distributions as shown.</td>
</tr>
<tr>
<td>Specialized Associate AAS, AFA, &amp; AS Nursing</td>
<td>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.</td>
</tr>
<tr>
<td>Certificate</td>
<td>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.</td>
</tr>
</tbody>
</table>
# 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 Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL 102</td>
<td>American Sign Language II</td>
</tr>
<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>ENG 240</td>
<td>Introduction to Children's Literature</td>
</tr>
<tr>
<td>ENG 241</td>
<td>Survey of African American Literature</td>
</tr>
<tr>
<td>GEO 102</td>
<td>Cultural Geography</td>
</tr>
<tr>
<td>HIS 107</td>
<td>African American History</td>
</tr>
<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>
</tbody>
</table>

## Historical Perspective (HSP)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 101</td>
<td>History of Western Civilization I</td>
</tr>
<tr>
<td>HIS 102</td>
<td>History of Western Civilization II</td>
</tr>
<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>
</tr>
<tr>
<td>HIS 206</td>
<td>World History II</td>
</tr>
</tbody>
</table>

## Humanities — Broad-Based (HUP)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Art Appreciation I</td>
</tr>
<tr>
<td>ART 121</td>
<td>History of Photography</td>
</tr>
<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>
</tr>
<tr>
<td>ENG 213</td>
<td>Non-Western Literature</td>
</tr>
<tr>
<td>ENG 222</td>
<td>The Romantic Era in American Literature</td>
</tr>
<tr>
<td>ENG 225</td>
<td>Twentieth Century American Authors</td>
</tr>
<tr>
<td>ENG 230</td>
<td>Major American Writers</td>
</tr>
<tr>
<td>ENG 235</td>
<td>American Film Classics</td>
</tr>
<tr>
<td>ENG 236</td>
<td>Contemporary American Film</td>
</tr>
<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>
</tr>
<tr>
<td>FRE 101</td>
<td>Intro to French</td>
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<tr>
<td>GER 101</td>
<td>Elementary German I</td>
</tr>
<tr>
<td>GER 102</td>
<td>Elementary German II</td>
</tr>
<tr>
<td>HIS 101</td>
<td>History of Western Civilization I</td>
</tr>
<tr>
<td>HIS 102</td>
<td>History of Western Civilization II</td>
</tr>
<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>
</tr>
<tr>
<td>HIS 206</td>
<td>World History II</td>
</tr>
<tr>
<td>ITA 101</td>
<td>Elementary Italian I</td>
</tr>
<tr>
<td>ITA 102</td>
<td>Elementary Italian II</td>
</tr>
<tr>
<td>MUS 101</td>
<td>Music Appreciation I</td>
</tr>
<tr>
<td>MUS 118</td>
<td>American Popular Music</td>
</tr>
<tr>
<td>MUS 121</td>
<td>History of Broadway: American Musical Theatre</td>
</tr>
<tr>
<td>MUS 203</td>
<td>American Music</td>
</tr>
<tr>
<td>PHI 101</td>
<td>Introduction to Philosophy I</td>
</tr>
<tr>
<td>PHI 104</td>
<td>Ethics</td>
</tr>
<tr>
<td>PHI 110</td>
<td>Religions of the World</td>
</tr>
<tr>
<td>PHI 150</td>
<td>Critical Thinking</td>
</tr>
<tr>
<td>PHI 204</td>
<td>Contemporary Moral Issues</td>
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<tr>
<td>PHI 210</td>
<td>Ancient and Medieval Philosophy</td>
</tr>
<tr>
<td>SPA 101</td>
<td>Elementary Spanish I</td>
</tr>
<tr>
<td>SPA 102</td>
<td>Elementary Spanish II</td>
</tr>
<tr>
<td>SPA 201</td>
<td>Intermediate Spanish I</td>
</tr>
<tr>
<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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## Mathematics (QKS)

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<td>MAT 100</td>
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<td>MAT 108</td>
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MAT 110  Algebra and Trigonometry  
MAT 115  College Geometry  
MAT 120  Structures of Mathematics I  
MAT 121  Structures of Mathematics II  
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MAT 151  Mathematics for Management  
MAT 152  Applied Calculus  
MAT 200  Foundations of Mathematics II  
MAT 202  Linear Algebra  
MAT 203  Statistics II  
MAT 205  Differential Equations  
MAT 221  Calculus III  

**Science (SKR)**  
BIO 101  General Biology I  
BIO 102  General Biology II  
BIO 103  Environmental Science: Ecosystems and Man  
BIO 104  Environmental Science: Pollution and Solutions  
BIO 105  Anatomy and Physiology I  
BIO 106  Anatomy and Physiology II  
BIO 107  Human Biology  
BIO 111  Contemporary Concepts in Biology  
BIO 112  Introduction to Marine Biology  
BIO 113  Economy Botany: Plants and Society  
BIO 116  Animal Science  
BIO 140  Science of Nutrition  
BIO 209  Ecology: Principles and Processes  
BIO 215  Microbiology  
BIO 221  Cell and Molecular Biology  
CHM 107  Introductory Chemistry  
CHM 111  General Chemistry I  
CHM 112  General Chemistry II  
CHM 201  Organic Chemistry I  
CHM 202  Organic Chemistry II  
CHM 215  Environmental Chemistry  
PHY 101  Principles of Physical Science I  
PHY 103  General Physics I  
PHY 104  General Physics II  
PHY 105  Modern Astronomy  
PHY 107  Technical Physics I  
PHY 111  Earth Science: Land and Sea  
PHY 112  Earth Science: Air and Space  
PHY 121  Physics for Everyday Life  

PHY 201  Physics I (calculus-based)  
PHY 202  Physics II (calculus-based)  
PHY 203  Physics III (calculus-based)  
PHY 241  Forensic Science  

**Social Science — Introductory (SHB)**  
ECO 100  Introduction to Economics  
ECO 101  Principles of Economics I (Macro)  
ECO 102  Principles of Economics II (Micro)  
GEO 102  Cultural Geography  
POL 101  American Federal Government  
POL 103  Introduction to Political Science  
PSY 101  General Psychology  
PSY 211  Psychology of Human Development  
PSY 212  Psychology of the Adolescent  
PSY 213  Child Psychology  
PSY 215  Psychology of Aging  
SOC 101  Principles of Sociology  
SOC 102  Sociology of the Family  
SOC 104  Social Problems  
SOC 110  Cultural Anthropology  
SOC 130  Society, Ethics and Technology  

**Technological Competency (TC) or Information Literacy (IL)**  
CIS 102  Introduction to Computers  
CIS 110  Fundamentals of Programming  
CSC 101  Introduction to Programming  

**Written and Oral Communication in English (WOC)**  
COM 105  Technical and Scientific Writing  
ENG 101  English Composition I  
ENG 101E  Enhanced English Composition I  
ENG 102  English Composition II  
SPE 101  Oral Communication  

*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, 2021.

ALH – Allied Health

**ALH 102 Medical Terminology**

3 lecture hours, 3 credits

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

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

**ALH 104 Patient Care**

1 lecture hour, 1 credit

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

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

**ALH 105 Basic Physical Exam**

1 lecture hour, 1 lab hour, 1 credit

Prerequisites: BIO 105, DMS 102, NMT 107, NUR 130, RDG 099 or ENG 104

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

**ALH 107 Cross Sectional Anatomy**

2 lecture hours, 2 credits

Prerequisite: Grade of “C” or higher in BIO 105

Pre or Co-requisite: BIO 106

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

**ALH 110 Basic Medical Terminology**

1 lecture hour, 1 credit

Prerequisites: RDG 099 or ENG 104

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

**ALH 112 Fundamentals of Human Anatomy**

1 lecture hour, 1 credit

Pre or Co-requisites: ALH 102, ALH 104

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

**ALH 115 EKG/ECG**

2 lecture hours, 1 lab hour, 1 clinical hour, 4 credits

Pre or Co-requisite: Grade of “C” or higher in ALH 104 or proof of passing national certifying exam

Test Fee: $117

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

**ALH 119 Phlebotomy**

1 lecture hour, 1 lab hour, 1 clinical hour, 3 credits

Pre or Co-requisites: ALH 102, ALH 104, ALH 112

Program Fee: $1,150, unless covered in NMT or CCMA

Test Fee: $117

This course is designed to instruct students in all aspects of phlebotomy training, including collecting, transporting, handling and processing blood specimens for analysis while adhering to all aspects of quality control and infection control safety policies. Classroom instruction is provided in conjunction with lab experience, followed by a clinical rotation. Upon enrollment to this course, students will be required to meet CPR and health requirements as specified in the Health Packet. Students who do not meet these requirements by the scheduled deadlines will be ineligible for clinical rotation.

**ALH 125 Medical Assistant Procedures**

1 lecture hour, 2 clinical hours, 3 credits

Prerequisites: ALH 102, ALH 104, ALH 112, ALH 115, ALH 119

Test Fee: $155

This capstone course for the Certified Clinical Medical Assistant Certificate of Achievement will build communication and critical thinking skills by teaching the student to integrate the knowledge obtained from previously learned skills such as phlebotomy, ECG/EKG, obtaining and recording vital signs, obtaining medical histories to organize, synthesize and present information as required in a clinical environment and perform procedures routine to medical care. Upon completion of this course, students are eligible to take the National Health Career Association (NHA) certification exam. Currently, Medical Assistant Procedures, is a 2-credit course; 1 credit for class and 1 credit for clinical. For spring 2016, faculty would like to increase ALH 125 (formerly known as ALH 123) from a 2-credit course to 3 credits; 1 credit for class and 2 credits for clinical.
ALH 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

This course is an introduction to drawing, using pencil, pastel, charcoal and pen. The study is to include observational drawing designed to aid in the development of visual perception. (Some supplies are to be furnished by the student.)

ART 108  Drawing and Painting I
2 lecture hours, 2 studio hours, 3 credits
Course Fee: B

This course introduces drawing and painting using pencil, watercolor and 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.

ART 121  History of Photography
3 lecture hours, 3 credits
Prerequisites: RDG 099 or ENG 104

This course is an overview of the history of photography from its beginnings to the present day. It focuses on the development and history of photography as an art form and the impact photography has had on both the art world and society. It also emphasizes major photographers and their work.

ART 131  Introduction to Digital Photography
2 lecture hours, 2 studio hours, 3 credits
Prerequisites: RDG 099 or 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.

AUT 110 Engine Repair
2 lecture hours, 10 lab hours, 4 credits
Prerequisites: AUT 105 and AUT 103
Course Fee: C

The operation of the internal combustion engine is discussed and examined in detail. Engine rebuilding, mechanical operations and failure analysis are introduced. Emphasis is on the proper use of hand tools, measuring instruments and equipment.

AUT 111 Heating, Ventilation and Air Conditioning
1 lecture hour, 10 lab hours, 3 credits
Prerequisites: AUT 103 and AUT 105
Course Fee: C

This course focuses on the principles of the operation and service of climate control systems. Topics include components, testing, diagnosis, charging and repair practices.

AUT 123 Automotive Electronics
2 lecture hours, 10 lab hours, 4 credits
Prerequisites: AUT 107, AUT 121, AUT 131
Course Fee: C

The fundamentals of electronic control systems and their components are introduced. Emphasis is on engine control strategies, microcomputer systems, diagnosis and repair and servicing electronic instruments and options (message center, instrument cluster, fuel computer, air suspension systems and keyless entry control).

AUT 135 Manual Transmissions
1 lecture hour, 10 lab hours, 3 credits
Prerequisites: AUT 103 and AUT 105
Course Fee: C

The principles of manual transmissions, their operation and service are investigated. Laboratory investigations include topics such as types of drivelines, differentials, clutches, U-joints, RWD, FWD and four-wheel drive.

AUT 139 Automatic Transmission Systems
1 lecture hour, 135 lab hours 3 credits
Prerequisites: AUT 110, AUT 111, AUT 135

The theory, operation and diagnosis of both rear-wheel drive transmissions and front-wheel drive transaxles are investigated. Rebuilding and diagnosis of both transmissions and transaxles are emphasized.

BIO – Biology

BIO 101 General Biology I
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: High school biology or equivalent and RDG 099 or ENG 104
Course Fees: C, H

An investigative approach to the science of biology including the molecular structure and function of the cell, extended to the tissue level of organization. Ecological concepts and an introduction to plant biology will be discussed. This course also covers the fundamental concepts of evolutionary theory and surveys many of the ways that organisms have become adapted to their environments. Population dynamics will be discussed as they relate to evolutionary theory. Laboratory exercises parallel lecture and reading assignments.

BIO 102 General Biology II
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: BIO 101
Course Fees: C, H

The origin of new cells and organisms as well as the manner by which genetic material is passed from parent to offspring are investigated in detail through lecture, discussion and lab exercises. Classical and molecular genetics are reviewed and permit the concurrent consideration of the theories relevant in biology today. DNA technology and molecular biology of the gene will be investigated including genetic evolution and the evolution of behavior.
BIO 103   Environmental Science: Ecosystems and Man
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H

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 that reinforce contemporary scientific concepts.

BIO 104   Environmental Science: Pollution and Solutions
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H

This course focuses on investigations that helps students understand how to minimize their environmental impacts.

BIO 105   Anatomy and Physiology I
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: High school chemistry (or CHM 107 or CHM 111) and high school biology (or BIO 101, BIO 107 or BIO 111) and RDG 099 or ENG 104
Course Fees: C, H

This course explores nutrition as a scientific discipline. Information on global resources. Topics will include energy sources, air and water pollution, toxicology, global climate change and waste. Lab experiences focus on investigations that help students understand how to minimize their environmental impacts.

BIO 106   Anatomy and Physiology II
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: Minimum grade of “C” in BIO 105
Course Fees: C, H

Building on the concepts of BIO 105, BIO 106 investigates the endocrine, immune, digestive, excretory, respiratory, circulatory and reproductive systems of the human body. Laboratory experiences include computer-assisted instruction and experimental labs that reinforce contemporary scientific concepts.

BIO 107   Human Biology
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H

Human biology is a one-semester course designed for students with limited recent experience in biological science. The course explores the structure and function of the human body at both the cellular and organismal levels. Topics of current biomedical and bioethical importance and bioengineering are investigated and discussed.

BIO 111   Contemporary Concepts in Biology
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H

This is a one-semester course that provides a general survey of basic biological theories and modern scientific research. This course includes an introduction to plant and animal diversity, natural selection and molecular biology through interactive laboratory techniques and lectures. This course fulfills the requirements of a general education lab course.
BIO 209 Ecology: Principles and Processes
3 lecture hours, 3 lab hours, 4 credits
Pre or Co-requisite: BIO 102
Course Fees: C, H

This field course, designed for science-emphasis students and those particularly interested in ecology, deals with the interaction of organisms at all levels of the ecosystem. A majority of the laboratory sessions are devoted to the investigation of ecological processes in natural environs.

BIO 212 Wetlands Field Ecology
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: Any lab science and RDG 099 or ENG 104
Course Fees: C, H, W

This is the study of the area between dry terrestrial systems and permanently flooded aquatic systems. This is a field course and includes a description of the hydrology and biochemistry of the wetlands found throughout the world. In addition the animals, plants and microscopic organisms of the wetlands will be studied in detail. The human impact and management of wetlands will be discussed. Both lecture and lab will be held at The Wetlands Institute.

BIO 215 Microbiology
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: BIO 102 or BIO 106
Course Fees: C, H

This course involves the study of the structure and function of microorganisms including viruses, rickettsiae, bacteria, fungi and protozoa. Molecular aspects of nutrition and metabolism are considered. Emphasis is placed on lab techniques associated with the growth and development of microbial systems. Throughout the course there is a reference to microbial disease and its elicitation of the immunological response.

BIO 216 Equine Capstone Practicum
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: BIO 115
Course Fees: C, G

This equine science course integrates didactics, knowledge, skills and experiential learning to allow the student to apply a mastery of fundamental equine science concepts. Hands-on practical experiences at offsite farms will focus on evaluating horses based on confirmation, biomechanics, soundness and suitability for a given discipline, application of nutritional principles, facility and horse management concepts to new situations. Students will develop a portfolio for employability and further educational and career advancement.

BIO 221 Cell and Molecular Biology
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: Minimum grade of "C" in BIO 102 or BIO 106
Course Fees: C, H

This course will provide students a background in contemporary biochemical, cell, molecular and biotechnology techniques currently utilized in biological science laboratories. Lectures will focus on the subcellular distribution and function of macromolecules, regulation of gene expression, recombinant DNA technology, gene therapy techniques and the molecular basis of cell signaling and cancer. Emphasis will be placed on developing fundamental laboratory skills utilizing recombinant DNA technology and other current techniques of cell and molecular biology.

BUS – Business

BUS 101 Introduction to Business
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

Topics include economic reasons for the different forms of business organization and the relations of the various forms of organization to the economic system based on free private enterprise. Such business problems as promotion, business financing, pricing, internal organization, plant location and layout, personnel management, risk bearing, insurance, failure and reorganization are discussed.

BUS 102 Accounting I
4 lecture hours, 4 credits
Pre or Co-requisite: MAT 105

This course provides an understanding of the fundamental principles underlying basic accounting theory and establishes a basis for subsequent accounting courses. Extensive coverage is given to accounting cycles for services and merchandising businesses.

BUS 103 Accounting II
4 lecture hours, 4 credits
Prerequisite: BUS 102

A continuation of BUS 102, this course provides a broader foundation and utilization of accounting principles. Extensive coverage is given to problems pertaining to partnerships and corporations.

BUS 104 Personal and Professional Branding
1 lecture hour, 1 credit

This course allows students to prepare for their career of choice. The material provided will expose students to the key elements necessary to develop oneself as a professional. The goal of the course and result is that participating students will be able to articulate their value through a resume and cover letter, conduct meaningful job searches, create a web and social media presence and express themselves clearly in an interview.

BUS 105 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 106 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 107 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 211  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 222  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 230  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 a 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 115
Course Fees: B, G

In this course, students will learn to use the five primary media types (text, graphics, sound, animations and video) to create dynamic and visually rich game and interactive products. The focus of the course will be game/interactive media theory, basics of animation and correct preparation of text and graphics in game/interactive authoring tools. Practical, real projects will be created to support student learning.

CGA 120  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 115 and CGA 118  
Course Fees: B, G

This course introduces advanced techniques of authoring games and interactive design projects. Students learn advanced tools and begin to use professional design tools to design prototype game and interactive products as well as the application of interface design principles. Students complete projects that demonstrate the use of skills and techniques learned in this class.

CGA 219  Web Design
2 lecture hours, 2 lab hours, 3 credits  
Prerequisites: CGA 103 and CGA 212  
Course Fees: B, G

This course introduces students to the concepts and practice of creating web pages using a web design software tool. Students will understand the basic concepts of web design including navigation, links, graphics and web site structures.

CGA 220  Advanced Electronic Publishing
2 lecture hours, 2 lab hours, 3 credits  
Prerequisite: CGA 120  
Course Fees: B, G

In this course, students use advanced publishing hardware and software tools to design publications on a computer. All aspects of the tools will be covered, including importing text and graphics, four-color process, spot color, appropriate file management and preparing documents for output to a service bureau. Students demonstrate a mastery of the use of the basic menus, commands and tools of electronic layout software.

CHI – Chinese

CHI 101  Elementary Chinese: Mandarin
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104

Introductory basic conversation and pronunciation form the basis of this course, designed to develop communication skills in the Chinese Mandarin dialect. Listening and speaking exercises, oral conversation and dictation are points of departure.

CHM – Chemistry

CHM 107  Introductory Chemistry
3 lecture hours, 3 lab hours, 4 credits  
Prerequisites: MAT 050 or MAT 051 or appropriate score on Algebra section of Placement Exam and RDG 099 or ENG 104  
Course Fees: C, H

This course introduces basic principles of chemistry. Topics include measurement, problem solving, matter and energy, physical and chemical properties and changes of matter, properties of gases, elementary atomic theory, chemical periodicity, chemical nomenclature, chemical transformations, bonding and Lewis structures, the mole concept and stoichiometry. This course satisfies the general science requirement for non-science majors, including students planning a career in the Allied Health professions. An elementary understanding of high school mathematics with emphasis on algebra is essential.

CHM 111  General Chemistry I
3 lecture hours, 3 lab hours, 4 credits  
Prerequisites: High school chemistry or CHM 107 and MAT 105 and RDG 099 or ENG 104  
Course Fees: C, H

Elementary atomic and molecular structure of matter are studied with emphasis on chemical bonding, periodic law, stoichiometry, kinetic theory, the gas laws and appropriate descriptive chemistry. The basic laboratory work supports lecture topics.

CHM 112  General Chemistry II
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: Minimum grade of "C" in CHM 111  
Course Fees: C, H

This continuation of CHM 111 covers solutions, kinetics, equilibrium, oxidation-reduction, electrochemistry, nuclear chemistry, systematic treatment of metals and nonmetals, thermochemistry and a brief introduction to organic chemistry. The laboratory exercises support lecture topics.

CHM 201  Organic Chemistry I
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: CHM 112  
Course Fees: C, H

This course is a study of the reactions, nomenclature, molecular structure and properties of organic compounds. Functional groups are studied with an emphasis on the mechanisms of their reactions. Hydrocarbons, alkyl halides, alcohols and ethers are studied in detail. Laboratory sessions involve practice in modern organic procedures including syntheses of organic compounds and analyses using wet and instrumental methods such as gas chromatography, infrared spectroscopy, 'H nuclear magnetic resonance spectroscopy, polarimetry and refractometry.

CHM 202  Organic Chemistry II
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: CHM 201  
Course Fees: C, H

This course is a continuation of Organic Chemistry I. It is a further study of the nomenclature, molecular structure, properties and mechanisms of reactions of the major functional groups. Radical reactions, the reactions of conjugated and aromatic compounds and those of carbonyl compounds and amines are studied in detail. The latter part of the semester focuses on carbohydrates, lipids, proteins and nucleic acids. Laboratory sessions involve practice in modern organic procedures including syntheses of organic compounds and analyses using wet and instrumental methods such as infrared spectroscopy, 'H and 13C nuclear magnetic resonance spectroscopy, ultraviolet spectroscopy, polarimetry and refractometry.

CHM 215  Environmental Chemistry
3 lecture hours, 3 lab hours, 4 credits  
Prerequisites: CHM 112, BIO 120  
Course Fees: C, H

This course involves a study of atmospheric, water, and soil chemistry as well as the associated air, water, and soil pollution. Specific topics may include the greenhouse effect, climate change, fossil fuels, renewable energy technologies, and toxic organic compounds like pesticides and dioxins. The basic laboratory work supports lecture topics.
CIA – Computer Information Applications

**CIA 100 Essential Computer Skills**
3 lecture hours, 3 credits  
Placement is based on basic skills test results  
Does not satisfy the CIS 102 requirement in any academic program  
Course Fee: A

This course introduces students with no prior experience to basic computer techniques including keyboard and mouse operations, email, the Internet, the Windows Operating System and Microsoft Office. Using a hands-on, step-by-step approach, students will use Word to create, edit and format documents. Excel will be used to create and format worksheets. Access will be used to create a simple database. PowerPoint will be used to create, edit and format presentations including importing pictures and sound.

CIS – Computer Information Systems

**CIS 102 Introduction to Computers**
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: RDG 099 or ENG 104  
Course Fees: A, H

This course provides a solid foundation for further study in any of the computer information programs. Topics include facets of obtaining timely and accurate information through the use of contemporary computer systems, hardware concepts for first-time users and hands-on experience with modern software during the computer labs. The Microsoft Office Professional for Windows software package — including Word, Excel, Access and PowerPoint — is used to solve a variety of business problems.

**CIS 110 Fundamentals of Programming**
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: RDG 099 or ENG 104  
Course Fees: A, H

This course uses an object oriented, event-driven language to teach fundamental programming concepts. Students with no previous programming experience learn to plan and create interactive Windows applications. Key programming concepts include how to work with various controls and write If...Then...Else, Select/Case, Do...Loop and For...Next statements as well as how to create and manipulate variables, constants, sequential access files and arrays. Graphical User Interface design skills are emphasized. Students will be able to develop a variety of business-related programming applications.

**CIS 120 Spreadsheets — Excel**
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: RDG 099 or ENG 104  
Course Fees: A, H

This course is a comprehensive presentation of the Microsoft Excel for Windows spreadsheet application software package. The course covers all of the important features of Excel from basic spreadsheet design and creation through formulas, functions, charts, solver, data tables, multiple worksheets, goal seeking and what-if analysis.

**CIS 151 Web Development — HTML/CSS**
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: RDG 099 or ENG 104  
Course Fees: A, H

The course presents the concepts and techniques used in the design, development and testing of web pages created with Hyper Text Markup Language (HTML) and Cascading Style Sheets (CSS). The course also introduces the student to JavaScript programming.

Students will work with HTML/CSS design and code generating software.

**CIS 154 Advanced Web Development**
2 lecture hours, 2 lab hours, 3 credits  
Prerequisite: CIS 151  
Course Fees: A, G

This course presents the process of designing and developing web sites from conception through the publication. The design techniques for mobile, tablet and desktop devices as well as graphic design, audio/video integration and social media interactivity. Students gain valuable hands-on lab experience using web-authoring software.

**CIS 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.
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
Course requires a final grade of “C” or better to progress in the CCMA program

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
Course requires a final grade of “C” or better to progress in the CCMA program

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
Course requires a final grade of “C” or better to progress in the CCMA Program.
Co-requisites: CMA 110, CMA 118, CMA 125

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 111  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 117  Clinical Medical Terminology
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  
Co-requisites: CMA 104 and CMA 128  
Course requires a final grade of “C” or better to progress in the CCMA Program.

CMA 128  
**Phlebotomy Clinical**  
45 clinical hours, 1 credit  
Prerequisites: CMA 125, CMA 131  
Course requires a final grade of “C” or better to progress in the CCMA Program.

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 an 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.
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 be 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 view 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.

CRJ 230 Violent Crime in America
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course studies violence and crime in America through historical perspectives, theory, diverse acts of violence, the media and statistical trends. Specific violent crimes, such as homicide, family violence, sexual assault, workplace violence, hostage-taking and serial crimes are surveyed. Acts of official violence, such as capital punishment and police brutality, are examined, along with their impact on society.

CRJ 238 Crime on the Internet
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course examines the Internet as a new crime environment for the twenty-first century. Investigation and prosecution of computer crime as well as security issues are studied.

CRJ 250 Constitutional Issues in Criminal Justice
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course is a review and analysis of important Supreme Court decisions involving contemporary practices of law enforcement agencies and the conduct of criminal court procedures. Emphasis is on the Supreme Court’s impact on such critical issues as search and seizure, confessions, wire-tapping and admissibility of evidence at trial.

CRJ 261 Organized Crime in America
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course examines the attributes, causes and historical antecedents of organized crime and its members. Emphasis is on the make-up of various organizations, including rank structure, initiation ceremonies and criminal activity. Further discussion focuses on law enforcement response to organized crime and its impact on society.

CRJ 262 Domestic and International Terrorism
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course examines the definitions, typologies, historical antecedents and morality of terrorism. Discussions involve domestic and international terrorism, groups involved, justifications and manifestations. Emphasis is on the impact on the international community, law enforcement response and the political ramifications. Selected case studies are examined.

CSC – Computer Science

CSC 101 Introduction to Programming
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: MAT 050 or MAT 051 or equivalent and RDG 099 or ENG 104; or permission from the Dean of STEM

Course Fees: A, H

This course presents concepts and principles of high-level programming using Visual Basic. It covers how to design, code, debug and document programs. Students learn structured programming using data files while writing programs on a variety of topics in different fields of engineering, mathematics and science.
CSC 106: Introduction to Data Science
3 lecture hours, 3 credits
Prerequisite: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104

This course provides an introduction to the foundational topics in data science including data manipulation, data analysis with statistics, machine learning, data communication and information visualization.

CSC 111 Intermediate Programming
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: High school programming course, CSC 101, or permission from the Dean of STEM
Course Fees: A, H

This course using Visual Basic focuses on advanced structured programming style, data validation, interactive event-driven routines, single and multi-dimensional array processing, searching, sorting and advanced file handling techniques using random data files and object-oriented programming.

CSC 203 Assembly Language and Computer Organization
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: CSC 111
Course Fees: A, H

This course offers fundamentals of computer organization, registers, buses, processors, I/O and memory system. It also covers data representation, instruction sets, addressing models, subroutines, interrupts and traps of assembly language programming. Students will write and debug assembly language programs at the machine level.

CSC 205 Programming in C++
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: CSC 111 or permission from the Dean of STEM
Course Fees: A, H

This course provides an introduction to C++ language that supports the object-oriented concepts. Students are exposed to fundamental syntax, control structures, functions and transfer of parameters, file processing, arrays, structured data types, sorting, searching, recursion, classes, instances, inheritance and polymorphism.

CSC 210 Object-Oriented Programming in Java
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: CSC 205 or permission from the Dean of STEM
Course Fees: A, H

This course provides an introduction to Java language that supports the object-oriented paradigm. Students are exposed to the concepts, fundamental syntax and semantics, control structures, arrays, algorithms, debugging techniques and object-oriented programming that includes features such as objects, classes, data abstraction, encapsulation, modularity, polymorphism and inheritance.

CSC 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 hour, 2 lab hours, 2 credits: 1/2/2
Prerequisites: MAT 103 and (CSC 111 or CIS 110) or permission from the Dean of 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.

DFT - Drafting and Design

DFT 103 CADD I (AutoCAD)
1 lecture hour, 5 lab hours, 3 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: B, I

This course introduces students to computer-aided drafting and design (CADD) with AutoCAD software. Students learn to create, store and retrieve drawings on AutoCAD. Industry standards and procedures are used to develop the skills needed by entry-level CADD operator.

DFT 113 CADD II: Advanced AutoCAD
1 lecture hour, 5 lab hours, 3 credits
Prerequisite: DFT 103 or equivalent
Course Fees: B, I

This course is a continuation of the study of AutoCAD. Topics include block, attribute, importing and exporting, x-ref, the user coordinate system and the basics of three-dimensional construction. Extensive hands-on projects using AutoCAD are required.

DFT 203 CADD 3-D Modeling
1 lecture hour, 5 lab hours, 3 credits
Prerequisite: DFT 211
Course Fees: B, I

This course provides advanced computer-aided drafting and design (CADD) techniques. A variety of design and drafting problems are studied using AutoCAD. Students generate drawings in such areas as architectural, mechanical, civil, piping, structural and pictorial drafting. These projects involve: three-dimensional construction, surfaces, solids, rendering and animation.

DFT 211 Architectural and Civil Planning
1 lecture hour, 5 lab hours, 3 credits
Prerequisite: DFT 113
Course Fees: B, I

This course covers the basics of architectural and civil planning and design. The use of contemporary methods and equipment, including CADD, are studied. Working drawings involving both residential and light commercial buildings are produced. Land planning, subdivisions, site topography, floor plans and construction codes are discussed in detail.
DMS – Diagnostic Medical Sonography

DMS 101 Introduction to Medical Imaging
1 lecture hour, 1 credit
Prerequisites: Admission to the program and BIO 105
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.

DMS 105 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.

DMS 106 Abdominal Sonography II
2 lecture hours, 2 credits
Prerequisite: DMS 105

Course Fee: $1,500

This course expands clinical applications pertaining to the organs and structures of the abdomen. The spleen, retroperitoneum, aorta and other abdominal organs are presented.

DMS 113 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.

DMS 117 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.

DMS 126 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.

DMS 201 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.

DMS 202 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.

DMS 203 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.

DMS 204 Clinical Practicum II
30 lab hours, 3 credits
Prerequisite: DMS 203

Students continue to develop their skills in diagnostic medical sonography techniques.

DMS 205 Clinical Practicum III
30 lab hours, 1 credit
Prerequisite: DMS 204

Students receive hands-on experience to reinforce instruction in diagnostic medical sonography techniques.

DMS 208 Small Parts Scanning
1 lecture hour, 1 credit
Prerequisite: DMS 201

Anatomy, physiology, pathology and basic scanning techniques as utilized in ultrasound evaluation of various organs and glands are covered in this presentation.
DMS 209  OB/GYN Sonography I  
3 lecture hours, 3 credits  
Prerequisite: DMS 116  
Obstetrics and Gynecological Sonography I introduces the female reproductive and urogenital systems as they pertain to ultrasound examination. Starting with the basic female reproductive system, the course expands into early pregnancy sonographic evaluation. Normal and abnormal anatomy and physiology, instrumentation set-up, patient preparation, proper scanning technique and normal and abnormal findings are presented.

DMS 210  OB/GYN Sonography II  
3 lecture hours, 3 credits  
Prerequisite: DMS 209  
Course Fee: J  
Advanced late-stage pregnancy sonography is covered in this course. The same didactic format as OB/GYN Sonography I is followed pertaining to the course presentation. Evaluation of the fetus, placenta and involved structures using ultrasound techniques are demonstrated. Critical measurements and assessment of in-utero fetuses are stressed.

DMS 221  Seminars in Ultrasound  
1 lecture hour, 1 credit  
Prerequisites: “C” or higher in DMS 226, DMS 202, DMS 204, DMS 222, DMS 210  
Co-requisites: DMS 208, DMS 205  
Course Fee: J  
On-campus seminar addresses issues that will facilitate the graduates' entry into the career of sonography. Topics include registry examination preparation in Abdomen, OB/GYN and Ultrasound Physics. Resume writing and test-taking strategies will also be introduced.

DMS 222  Vascular Ultrasound  
3 lecture hours, 3 credits  
Prerequisites: “C” or higher in DMS 201, DMS 203, DMS 209  
Pre or Co-requisites: DMS 202, DMS 204, DMS 210, DMS 226  
This course will provide entry-level knowledge of visceral and peripheral vascular systems relative to duplex and color flow Doppler evaluations. The student will be provided with a working knowledge of hemodynamics and Doppler techniques relative to normal pathogenic states.

DMS 226  Ultrasound Physics II  
1 lecture hour, 1 credit  
Prerequisites: “C” or higher in DMS 106, DMS 201, DMS 203, DMS 209  
Pre or Co-requisites: DMS 202, DMS 204, DMS 210, DMS 222  
Program Fee: $1,500  
This course covers the Doppler effect and principles as well as artifacts, quality assurance and bio effects.

ECO – Economics

ECO 100  Introduction to Economics  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
This course introduces basic principles of economics and is for students who plan to take no other economics principles courses. It covers capitalism, scarcity, supply and demand gross national product, inflation, unemployment, the Federal Reserve System, monetary and fiscal policies and price determination under varying degrees of competition. Current economic issues are also discussed. ECO 100 does not satisfy requirements for a business major.

ECO 101  Principles of Economics I (Macro)  
3 lecture hours, 3 credits  
Prerequisite: MAT 105 or MAT 151  
This study of the American economic system emphasizes macroeconomics. Topics include the laws of supply and demand, the functioning of the price system, the theory of national income determination and the role of monetary and fiscal policies in combating the problems of inflation and recession.

ECO 102  Principles of Economics II (Micro)  
3 lecture hours, 3 credits  
Prerequisite: MAT 105 or MAT 151  
This continuation of ECO 101, with emphasis on microeconomics, covers concepts of elasticity, costs of production, the theory of the firm, wage determination and the international economy.

ECO 103  Personal Finance  
3 lecture hours, 3 credits  
Prerequisite: RDG 099 or ENG 104  
This course introduces the concepts and tools of managing personal finances. It assumes no prior study of economics and is designed to help students understand how to establish a personal financial plan, plan for personal taxes, manage cash, use credit cards, understand consumer lending and insurance and invest in stocks, bonds and funds.

EDU – Education

EDU 105  Educational Technology  
1 lecture hour, 1 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
EMG – Emergency Management

**EMG 101** Introduction to Emergency Management and Homeland Security
3 lecture hours, 3 credits  
Pre or 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  
Pre or 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 222  The Romantic Era in American Literature
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This course investigates the main trends and developments in prose, poetry and short stories of the romantic period in American literature against a background of the social and intellectual life, with attention also to the language of the literature.

ENG 225  Twentieth Century American Authors
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

Literary works related to basic problems of the twentieth century (political, social, religious, philosophical or personal) are studied.

ENG 230  Major American Writers
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This course includes selected readings from the literary works of major American writers. Several critical essays are required.

ENG 235  American Film Classics
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This survey of the American film industry emphasizes its development as an art form and a social institution.

ENG 236  Contemporary American Film
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This course presents a survey of the American film industry from the breakdown of the Hollywood studio system in the 1950s to its present-day forms. Students are required to view a select number of films and will write several analytical essays on their themes and techniques.

ENG 237  American Horror Literature: Poe to King
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This course introduces the American Gothic tradition of horror. The course analyzes a variety of important horror texts, written and filmed, in an attempt to understand why this genre is significant in the development of American culture. The course also addresses the philosophical issues of attraction to this genre and its sociological and spiritual influences.

ENG 238  The Films of Alfred Hitchcock
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This course introduces the work of one of the twentieth century’s most influential artists, Alfred Hitchcock. By viewing and discussing
selected Hitchcock films, students address issues of theme and technique as they define the Hitchcock world.

**ENG 240 Introduction to Children’s Literature**  
3 lecture hours, 3 credits  
Prerequisite: ENG 101 or ENG 101E

This survey course deals with the selection, evaluation and utilization of literary materials for children from pre-school through junior high school age (2–16 years of age). Students read and evaluate literary selections for children in this age range.

**ENG 241 Survey of African American Literature**  
3 lecture hours, 3 credits  
Prerequisite: ENG 101 or ENG 101E

This course introduces African American literature, exploring the contributions of noted African American writers. The course focuses on the impact these writers had on American culture and society from its early history to the present.

**ENG 243 The Freedom Papers: Britain’s Other Literary Treasures**  
3 lecture hours, 3 credits  
Prerequisite: ENG 101 or ENG 101E

This course presents a survey of the written history of Britain. Students will follow the centuries-long struggle of the British people against despotism and oppression and trace their development of the principles of individual freedom and the rule of law through the historical documents that first articulated and established these principles.

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**ENR – Engineering Science**

**ENR 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.

**ENR 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.

**ENR 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.

**ENR 201 Sophomore Engineering Clinic I**  
3 lab hours, 1 credit  
Prerequisite: ENR 103  
Course Fees: B, H

This course, a continuation of the Engineering Clinic series, provides expanded treatment of the practice of engineering through applications drawn from various engineering disciplines and industry. Project work includes a variety of technical communication topics, analytic and computer-based tools, including the design process, engineering ethics, safety and teamwork.

**ENR 202 Sophomore Engineering Clinic II**  
3 lab hours, 1 credit  
Prerequisite: ENR 201  
Course Fees: B, H

This course, a continuation of the Engineering Clinic sequence, provides expanded treatment of the practice of engineering through applications drawn from engineering disciplines and industry. The communications component is designed to help students prepare and present messages in public speaking contexts. In addition to engineering design, the course emphasizes presentation skills as well as critical thinking, listening and organizational skills.

**ENR 207 Engineering Materials**  
2 lecture hours, 3 lab hours, 3 credits  
Pre or Co-requisite: CHM 111  
Course Fees: B, H

This course for the engineering student develops familiarity with the nature and physical properties of industrial materials. Emphasis is on the mechanical behavior of materials under various load conditions. Laboratory experiences complement class work.

**ENR 211 Engineering Statics**  
3 lecture hours, 3 credits  
Pre or Co-requisite: PHY 201

This course for students of engineering includes analysis of static particles and rigid bodies under applied forces. This study of force systems in equilibrium includes resultant of forces in two- or three-dimensional space, free-body diagrams, centroids, analysis of structure, friction, moment of inertia and work.

**ENR 212 Mechanics of Materials**  
3 lecture hours, 3 credits  
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.

**ENR 213 Dynamics**  
3 lecture hours, 3 credits  
Prerequisite: ENR 211

Dynamics includes analysis of moving particles and rigid bodies under applied forces. The principles of kinematics and kinetics are presented. The topics include work, energy, impulse, linear momentum, angular momentum and mechanical vibration.

**ENR 218 Principles of Electrical Circuit Analysis**  
3 lecture hours, 2 lab hours, 4 credits  
Prerequisite: MAT 108 and PHY 202

Designed to provide the students not only with a comprehensive foundation of circuit and network theory, but also the basic skills of circuit analysis, design, and testing. Starting with Ohm’s Law, this course first discusses resistive and DC circuits and introduces Kirchhoff’s Laws, Thevenin and Norton equivalents of networks, mesh and nodal analysis, followed by independent and dependent sources,
and operational amplifiers. The second half of the course focuses on AC circuits. Laplace transforms will be introduced for transient and steady state response of networks, followed by various applications of AC circuits, such as filters. Computer-aided analysis and simulation tools are also presented as contemporary methods of network analysis and design. Laboratory work supports lecture topics.

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 study of processes of change and patterns of interaction between the major civilizations of the world from the rise of civilization to European expansion of the 1500s. This is a survey of the political, social, economic, cultural and religious forces and movements essential to an understanding of the development of world civilizations. Fundamental to this course is an emphasis on the diversity of world cultures, the mutuality of cultural exchange and a global perspective on historical development.

HIS 205 World History II
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course is a study of processes of change and patterns from the 1500s to the present. This is a survey of the political, social, economic, cultural and religious forces and movements essential to an understanding of the development of modern nations, identities, economies and alliances. Fundamental to this course is an emphasis on the diversity of world cultures, the mutuality of cultural exchange and a global perspective on historical development.
HPER – Health, Physical Education and Recreation

The Health, Physical Education and Recreation faculty recommends students select HPE 100-level courses to fulfill the graduation requirement. The 200-level courses are designed for students majoring in Health, Physical Education and Recreation or Exercise Science and/or students with special interests for elective purposes.

HP 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.

HP 105  Healthcare Provider Emergency Response with BLS Certification
1 lecture hour, 1 credit
Course Fee: C

This course is designed to provide training in the duties of the Healthcare Provider as first responder in emergencies. Course includes topics that HCP needs to consider when beginning first aid as well as the responsibilities when initiating basic life support. Students will have an opportunity to gain knowledge and skills on victim assessment, controlling bleeding, and preventing shock. Students will learn how to recognize and respond to life-threatening emergencies such as cardiac arrest, respiratory arrest and foreign-body airway obstruction (choking). At course completion, students will be required to demonstrate the correct provision of high-quality CPR and the correct use of an automated external defibrillator (AED). Students who successfully complete the written and skill components of the CPR module will be awarded the American Heart Association’s Basic Life Support for Healthcare Providers card.

HP 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.)

HP 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.

HP 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.

HP 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.

HP 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.

HP 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.

HP 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.

HP 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.

HP 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.

HP 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.

HP 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 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.

### 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 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.

MAT 121  Structures of Mathematics II  
3 lecture hours, 3 credits  
Prerequisite: MAT 120  
This course is designed primarily for elementary education majors. The course will require students to investigate problems in order to deepen their conceptual and procedural understanding in the areas of algebra, data analysis, probability, geometry,
This is a study of ordinary differential equations with applications. Topics include differential and integral calculus with emphasis on 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
Pre-requisite: RDG 099, ENG 104

This course focuses on music as an integral component of teaching and learning in the world of early childhood and in the elementary school curriculum. Students interested in working with children at the preschool or primary level will explore a variety of musical styles to develop their own critical aesthetic and artistic vocabulary. Students learn how to help children utilize music in the exploration and expression of thoughts and feelings. The early childhood portion of the course builds an understanding of musical development, with emphasis placed on music and movement. Elementary methods include design, construction, implementation, and assessment of classroom music activities that integrate the arts with elementary classroom curricula.

MUS 106 Choral Workshop I
2 studio hours, 2 lecture hours, 3 credits

Choral Workshop I emphasizes vocal training, basics of musical notation and terminology, and rudiments of sight reading through the study of a variety of choral works. No prior musical training is necessary. Participation in several public performances may be required. Students may enroll for subsequent Choral Workshop classes.

MUS 107 Choral Workshop II
2 studio hours, 2 lecture hours, 3 credits

Choral Workshop II is open to students who have successfully completed Choral Workshop I. This course develops vocal technique, broadens knowledge of musical notation and terminology, and advances sight reading through the study of a variety of choral works. Participation in several public performances may be required. Students may enroll in subsequent Choral Workshop classes.
MUS 108  Choral Workshop III
2 studio hours, 2 lecture hours, 3 credits

Choral Workshop III is open to students who have successfully completed Choral Workshop I and Choral Workshop II. This course allows students to apply their vocal and musical experience in a variety of chamber groupings and formats, demonstrating advanced musicianship and developing flexible ensemble skills in the study of a variety of choral works and styles. Participation in several public performances may be required. Students may enroll for the Choral Workshop IV upon completion of this course.

MUS 109  Choral Workshop IV
2 studio hours, 2 lecture hours, 3 credits

Choral Workshop IV is open to students who have successfully completed Choral Workshops I, II and III. This course allows vocally advanced students to apply their experience in a variety of chamber groupings and formats, polishing a highly developed vocal and choral technique and fine-tuning musicianship skills in the study of a variety of choral works and styles. Participation in several public performances may be required.

MUS 112  Basic Musicianship
3 lecture hours, 3 credits

This course is designed and structured for students with very little or no formal musical training. Its goal is to provide students with a basic working knowledge of the fundamentals of music, including notation of pitch and rhythm, the keyboard, basic precepts of tonality such as key, scale construction and basic chord formation. This course requires no previous musical experience and provides a foundation for the further study of music theory. It may serve as an introductory/refresher course for students considering the A.A. Music Option, but will not transfer to four-year music programs.

MUS 115  Basic Aural Skills
1 lecture hour, 1 credit
Prerequisite: RDG 099 or ENG 104

This course develops rudimentary ear training and sight-singing skills through applied practice with the basics of melodic and rhythmic notation, an introduction to college systems and melodic and rhythmic dictation. No prior musical training is required for this course: its co-requisite, Basic Musicianship (MUS 112), builds basic knowledge of melodic and rhythmic notation, clefs, scales and key signatures from the ground up. This course is designed to augment and complement MUS 112, providing reinforcement of those topics through the development of corresponding basic aural and keyboard skills.

MUS 118  American Popular Music
3 lecture hours; 3 credits
Prerequisite: RDG 099 or ENG 104

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.

MUS 121  History of Musical Theatre
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course gives students the opportunity to evaluate and compare a variety of musicals from the nineteenth century to present-day American and European Musicals including Minstrel Shows, Vaudeville, Operetta, Musical Comedy, Opera on Broadway and Rock Opera. Students will examine composers, lyricists, producers, directors, choreographers and performing artists who have contributed to the development of musical theatre. Students will identify historical and cultural references and assess performances viewed in class and online to formulate an opinion of each production.

MUS 126  History of Music
3 Lecture Hours, 3 Credits:
Catalog Description
Prerequisite: RDG 099 or ENG 104

A study of world music from antiquity through the 20th century concentrating on socio-cultural influences, function of music, style and performance practice from Western and Eastern European countries, Latin America and United States. Music for voices and instruments will be studied and the composers who wrote the music.

MUS 203  American Music
3 lecture hours, 3 credits
Prerequisites: MUS 101 and RDG 099 or ENG 104

Students will study seminal works of American art music to identify characteristics associated with major stylistic movements and multicultural influences throughout the recorded history of the American experience. Works and composers will be presented in the context of their sociocultural settings through lectures, discussions and multimedia demonstrations. Coursework includes assigned readings, listening and a group project.

MUS 207  Music History I: Music to 1750
3 lecture hours, 3 credits
Pre or Co-requisites: ENG 101 or ENG 101E

MUS 207 appraises the art of music through active listening, introducing basic musical concepts and developing listening perception. Recorded and visual materials are utilized in studying the elements, forms and styles of music with the aim of stimulating a discriminating understanding and enjoyment of various musical styles. The course is organized topically, not chronologically, and is not limited to historical musical styles; rather, through active listening students are drawn to discover commonalities among all types of music.

MUS 212  Music Theory
3 lecture hours, 3 credits
Prerequisites: RDG 099 or ENG 104 and MUS 112 or demonstrated understanding of rhythmic/pitch notation, intervals, scales and key signatures. (Students wishing to enroll without having completed MUS 112 should contact the instructor; an entrance examination will be scheduled.)

Music Theory is designed for students wanting a deeper understanding of musical structure and function or those intending to major in music. The course covers tonal harmony, develops recognition of written and aural musical features and introduces modal counterpart.

MUS 215  Aural Skills I
1 lecture hour, 1 credit
Prerequisites: MUS 112 and grade of “C” or higher or successful placement exam
Co-requisite: MUS 212

This course is designed to augment and complement, Music Theory (MUS 212); it develops ear training and sight-singing skills through the practice and cultivation of singing at sight, familiarity with solfege systems and dictation. This course assumes facility with melodic and rhythmic notation, scales and keys signatures and chord construction. The prerequisite (MUS 112, with a minimum grade of “C”) may be waived depending on results of the placement exam. This course may be taken by any student wishing to improve aural mastery of music theory.
NMT – Nuclear Medicine Technology

NMT 106 Radiation Safety and Biology
1 lecture hour, 1 credit
Prerequisites: Acceptance into the program. Grade of “C” or higher in PHY 103, CHM 111, BIO 105 and BIO 106
Pre or Co-requisites: Grade of “C” or higher in ALH 107 and NMT 107

This course provides instruction in all aspects of radiation safety. NRC regulations and radiation biology are also reviewed.

NMT 107 Radiation Physics
2 lecture hours, 2 credits
Prerequisites: Acceptance into the program. Grade of “C” or higher in PHY 103, CHM 111, BIO 105 and BIO 106
Pre or Co-requisites: Grade of “C” or higher in ALH 107 and NMT 106

This course focuses on nuclear physics including the study of electromagnetic waves, the basis of radioactivity, converting units and terminology related to radioactivity.

NMT 114 Clinical Imaging Procedures I
2 lecture hours, 2 credits
Prerequisites: Acceptance into the program. Grade of “C” or higher in: CHM 111, PHY 103, BIO 105 and BIO 106

This course focuses on nuclear medicine procedures including radiopharmaceutical dose, patient preparation, route of administration, indications, contraindications, imaging criteria and scan interpretation.

NMT 116 Basic Nuclear Medicine Procedures
1 lecture hour, 2 credits, 3 lab hours
Prerequisites: Acceptance into the program. Grade of “C” or higher in: PHY 103, CHM 111, BIO 105 and BIO 106

Course Fee: G

This course is an introduction to clinical procedures including patient care, basic instrumentation, medical terminology, medical ethics and clinical imaging procedures. The laboratory component is designed to provide the student with the skill set needed to operate equipment commonly used in the field of Nuclear Medicine, and to provide patient-centered care and assessment related to Nuclear Medicine.

NMT 205 Clinical Internship I
450 clinical hours, 10 credits
Prerequisites: Grade of “C” or higher in: NMT 106, NMT 107, ALH 107, NMT 114 and NMT 116.

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.
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 healthcare 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 disease prevention. The student learns to analyze, synthesize and evaluate complex and advanced concepts from pharmacology, nutrition, pathophysiology, and safety across the lifespan. 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
Admission to Automotive Technology program
Course Fees: C, H

This course addresses properties of matter, principles of hydraulics, dynamics, friction, simple machines and the fundamentals of heat, electricity, electromagnetism and light as these relate to automotive components. Emphasis is on development of skills needed to perform automotive mechanical and electrical diagnosis. Laboratory experiences, designed to augment the conceptual approach to this course, are included.

PHY 111    Earth Science: Land and Sea
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H

This course is for non-science majors who need to meet their science requirement for graduation. The emphasis is on geology and oceanography.

PHY 112    Earth Science: Air and Space
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H

This course is for non-science majors who need to meet their science requirement for graduation. Emphasis is on meteorology and astronomy. Earth Science I is not required to complete this course.

PHY 121    Physics for Everyday Life
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H

This course is a practical introduction to physics and science in everyday life. It considers objects from our daily environment and focusses on their principles of operation and relations to one another.

PHY 201    Physics I (calculus-based)
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: “C” or higher in MAT 108 and RDG 099 or ENG 104
Co-requisite: MAT 122
Course Fees: C, H

This course is designed for students of science and pre-engineering. The fundamentals of classical physics are developed in depth through the use of calculus. Emphasis is placed on static, dynamic, kinematic and rotational motion.

PHY 202    Physics II (calculus-based)
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: MAT 122, “C” or higher in PHY 201
Course Fees: C, H

This course is a continuation of Physics I (calculus-based). The fundamentals of thermal phenomena, electricity, magnetism and light are studied.

PHY 203    Physics III (calculus-based)
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: PHY 202 and MAT 122
Pre or Co-requisites: PHY 202 and MAT 122
Course Fees: C, H

This is a continuation of Physics II (calculus-based). The fundamentals of wave motion, fluid mechanics, light phenomena and relativistic mechanics are studied.

PHY 241    Forensic Science I
3 lecture hours, 3 lab hours, 4 credits
Prerequisites: for Criminal Justice majors, CRJ 101 for all others, RDG 099 or ENG 104 and MAT 050
Course Fees: C, H

Designed for the non-science major, this course is an introduction to the applications of the physical, chemical, and biological principles necessary to provide students with a basic understanding of forensic
science as the intersection of these different scientific areas. The use of fundamental scientific principles in laboratory experiments will provide students with an appreciation of modern forensic techniques.

**PHY 242 Forensic Science II**  
3 lecture hours, 3 lab hours, 4 credits  
Prerequisite: PHY 241  
Course Fees: C, H

This course involves a more detailed inquiry into the methods and procedures utilized by the forensic crime laboratory in the examination of physical evidence. Emphasis is on field test equipment utilized at the crime scene and laboratory procedures employed for more detailed analysis.

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**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.

**PLG 204 Technology in the Law Office**  
3 lecture hours, 3 credits  
Prerequisite or Co-requisite: PLG 101  
Prerequisites: CIS 102 or CIS 120

This course will provide a general introduction to the use of computers and legal specialty software in the modern law office. It includes hands-on computer exercises using professional software programs frequently used in the law office by paralegals. An additional course fee may be charged.

**PLG 205 Wills, Trusts and Estate Planning**  
3 lecture hours, 3 credits  
Prerequisite or Co-requisite: PLG 101

This course covers the Probate Code of New Jersey Probate Procedure, descendants' estates, death and inheritance taxes and other related problems. Special attention will be given to will and tax preparation.

**PLG 207 Family/Domestic Law**  
3 lecture hours, 3 credits  
Prerequisite or Co-requisite: PLG 101

This is a study of divorce and dissolution procedures, family court systems, child support enforcement procedures, custody disputes, adoption procedures and aspects of juvenile law.
interview techniques. management, accounting, time management and telephone and client maintenance of filing systems, tickler system of scheduling, personnel

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.

POL 210 Property Transactions
3 lecture hours, 3 credits
Prerequisite or Co-requisite: PLG 101
This is a study of the types of property transactions and related matters. Topics include contracts, mortgages, leases, deeds and a review of title searches and recording statutes. Students will learn to prepare a real estate closing.

PLG 210 Paralegal Skills and Office Practices
3 lecture hours, 3 credits
Prerequisite or Co-requisite: PLG 101
This course focuses on the practical application of substantive law including, but not limited to, civil litigation, family law, real property, probate practice, wills, trusts, the administration of decedents’ estates and legal research. Students will also be instructed in New Jersey Court Rules and Procedures and in locating and preparing legal forms. Paralegal Office Management skills and practices will also be covered.

PSY – Psychology

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 investigates 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 field.

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.

PSY 300  Introduction to Sport & 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 308  Social Psychology of Sport  
3 lecture hours, 3 credits  
Prerequisite: 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.

PTA – Physical Therapist Assistant

PTA 101  Introduction to Physical Therapist Assisting  
1 lecture, 1 credit  
Prerequisite: Grade of “C” or better in ENG 101 or ENG 101E  
Co-requisite: HPE 106, PTA 102  
Program Fee: $1,500  
This course will provide an introduction to the physical therapy profession, including a history of the American Physical Therapy Association; the role of the PTA as a member of the health care team; the PT/PTA relationship; physical therapy practice settings and specialties; as well as an introduction to physical therapy regulations, ethics, patient communication, patient health care records and documentation.

PTA 102  Kinesiology and Measurement of the Musculoskeletal System  
3 lecture hours, 7 lab hours, 6 credits  
Prerequisite: Grade “C+” or better in each of the following: BIO 105 and MAT 115  
Pre or Co-requisite: BIO 106, PTA 101  
Course Fees: I  
Building upon Anatomy and Physiology I, this course will provide an in-depth study of the biomechanical principles and anatomical structures responsible for human movement; as well as the fundamentals and physiological effects of therapeutic exercise. Students will be expected to demonstrate in lab competency with palpation of anatomical landmarks; assessing anthropometric measurements, muscle strength, joint range of motion, posture and gait; and performing common therapeutic exercises for strengthening, stretching, balance and coordination. Documentation regarding data collection and treatment interventions will also be included.

PTA 105  Pathophysiology for the PTA  
2 lecture hours, 2 credits  
Prerequisite: Grade of “C+” or better in BIO 106  
Co-requisites: PTA 107, PTA 210  
The student is introduced to the medical and surgical conditions most frequently encountered in PT departments, with emphasis on the role of the PTA in the treatment of each. The basic inflammatory and healing processes and the principles of treatments to promote healing are covered. Students will become familiarized with the essential nature of diseases and abnormalities of structure and function that are characteristic of diseases. Students will receive an introduction to pharmacology and to the systematic review of professional literature to research PT-related diagnoses.

PTA 107  Essential Skills for the PTA I: Patient Care  
2 lecture hours, 6 lab hours, 4 credits  
Prerequisite: PTA 102  
Co-requisites: PTA 105  
Course Fees: I  
The 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.

**RDG – Reading**

**RDG 099** Introduction to College Reading III
3 lecture hours, 3 credits
Prerequisite: Placement scores
The course is for students who have a strong background in literal comprehension and need practice in evaluative questioning and skill application to college-level reading.

**SCI – Science**

**SCI 105** Introduction to Experimentation
1 lecture hour, 1 credit
An introductory course exploring the Scientific Method and the concepts of experimental design. This is a one-credit course designed for students pursuing careers in science or students wanting to have a better understanding of the scientific process.

**SCI 110** Women in STEM Seminar
1 lecture hour, 1 credit
Prerequisite: RDG 099 or ENG 104 and permission from Dean of STEM
The focus of this course will be on the history of women in science and current obstacles women face in scientific fields. We will discuss recommendations for change with the goal of encouraging the participation in and representation of women in science. Gender-inclusive, alternative teaching methods that emphasize cooperative learning, group discussion and critical analysis will be incorporated.

**SCI 201** Honors Research
1 lecture hour, 10 lab hours, 3 credits
Prerequisite: BIO 102 or BIO 106, CHM 111 and minimum GPA 3.5
This course is designed to provide STEM majors with practical experience while working for 10 hours/week at a field location. This course is designed for students who aspire to gain career-related experience while completing their degree. This course will have an academic experience and a supervised work experience.

**SOC – Sociology**

**SOC 101** Principles of Sociology
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This is a study of the basic concepts of sociology applied to modern society and the use of the scientific methods in sociology. Analysis of social relationships, groups, institutions, population, systems of control and social change will be examined.

**SOC 102** Sociology of the Family
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This course studies the American family from a contemporary and sociological viewpoint. The essence of the family in an historical cross-cultural perspective and new experiments in family lifestyles are explored. Emphasis is on the family as an important social institution.

**SOC 104** Social Problems
3 lecture hours, 3 credits
Prerequisites: RDG 099 or ENG 104
This course examines the social problems in society using sociological theories and concepts. Contemporary social problems including, but not limited to, racial and ethnic relations, family problems, crime, mental illness, poverty and alcoholism will be analyzed.

**SOC 110** 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.

**SOC 130** Society, Ethics and Technology
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
This course investigates the relationship between technological advances and the influence they have had on society throughout history. Social and cultural changes are reviewed in the context of technology and ethical issues that contemporary society faces because of new technological developments.
SOC 160  Introduction to Social Work
3 lecture hours, 3 credits

Prerequisites: RDG 099 or ENG 104 and SOC 101

This course will explore social work in contemporary society. Social work theories, processes and concepts utilized in social service delivery systems will be examined.

SOC 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.

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 associated 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 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 hones 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.
THR 216  Advanced Jazz Dance
2 lecture hours, 2 studio hours, 3 credits

This course is a comprehensive technique class that will expand, strengthen, and enhance the students’ existing knowledge of jazz dance obtained in Fundamentals of Jazz Dance. This course is designed to increase the students’ ability to remember and to perform jazz dance confidently in shows, auditions, and teaching. This course offers additional challenges that support students’ individual efforts to achieve their own personal best as they explore the artistry that fuels the many facets of jazz dance.
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.)
- Global Business Leadership — Business Administration (A.S.)
- Criminal Justice — Criminal Justice (A.S.)
- Exercise Science — Exercise Science (A.S.)
- Emergency Management Criminal Justice — Criminal Justice (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.

Third Year (Advanced Studies) Course Descriptions:

Course work for 3+1 students only.

Applied Professional Communications

**COM 300** Publication, Layout and Design
3 Lecture Hours, 3 Credits
Prerequisite: Completion of the AA Arts and Sciences Communications Options Degree

This course focuses on design, layout, and make-up of brochures, magazine and newspaper pages, newsletters, fliers, 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 to work with various computer applications to achieve effective layout.

**COM 305** Writing Research and Technology
3 Lecture Hours, 3 Credits
Prerequisite: Completion of the AA Arts and Sciences Communications Options Degree

This course presents the rhetorical, social, and practical dimensions of writing and researching in networked contexts. Students analyze and compose with audio, video, image and text, using a variety of digital writing practices. Students blend research methods informed by current literacy theories and modalities, allowing them to explore meaning-making, circulation, and the ethical ramifications of writing within digital communities.

**COM 324** Introduction to New Media
1 Lecture, 4 Studio hours, 3 Credits
Prerequisite: Completion of the AA Arts and Sciences Communications Options Degree

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  
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  Applied 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 with an overall GPA of 3.0 (or higher) who have passed a criminal history background check and have earned a minimum of 60 college credits (8 in Forensic Science and 21 in Criminal Justice and approved electives)  
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.

CRJ 305  Counseling and Guidance of the Offender  
3 lecture hours, 3 credits  
Prerequisites: ENG 102 or equivalent  
This course is a survey of the basic principles and techniques of counseling of offenders, including interviewing, case conferences, case histories, individual and group counseling, classification procedures and team treatment participation.
This course explores the extent of crime and delinquency in the United States and the full range of relevant theories of causation. The synthesis and application of appropriate theories to such concepts as race, social class, gangs, drugs, family, schools and neighborhoods is covered.

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 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, 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 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 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 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 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.
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, non-profit 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.

**HPE 305 Exercise Physiology with Laboratory**  
*3 Lecture Hours, 2 Lab Hours, 4 Credits*  
**Prerequisite:** C or higher in BIO 105 and BIO 106

This course is designed to explore the acute responses and chronic adaptations to exercise. Areas of discussion will include the cardiorespiratory, neuromuscular, and endocrine systems. Bioenergetics, metabolism, and the physiology of training is also explored. Students will learn how these systems function from rest to maximal exercise in fit, unfit, athletic, and diseased populations at the cellular level. Topics will be reinforced through hands-on laboratory activities.

**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.