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

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

**STUDENTS CAN CHOOSE FROM THE FOLLOWING PATHWAYS:**

### 3+1 PROGRAM

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

### ROWAN CHOICE

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

### 2+2 PROGRAM

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

### TRADITIONAL TRANSFER

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

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

For additional information visit: RCSJ.edu/RU
## Academic Calendar 2023-2024

### Fall Semester 2023

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Welcome to Rowan College of South Jersey

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

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

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

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

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

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

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

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

Frederick Keating, Ed.D.
President
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College Overview

Rowan College of South Jersey was established on July 1, 2019, with the merger of Cumberland County College and Rowan College at Gloucester County. It is a comprehensive, two-year, dual-campus regional institution sponsored by the residents of Cumberland and Gloucester Counties through their respective Boards of Chosen Freeholders. The College is accredited by the Middle States Commission on Higher Education. Rowan College seeks to assist each person in the development of a career, while at the same time developing humanistic values and encouraging personal enrichment. The College is dedicated to its community and accepts the responsibility of providing post-secondary educational opportunities to all who seek them. It provides college and university transfer programs, career education, community services and special assistance programs. Rowan College seeks to bring higher education within the geographic and financial reach of all residents.

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

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

Gloucester County
Board of County Commissioners
Frank J. DiMarco, Director
Heather Simmons, Deputy Director
Lyman Barnes, Education Liaison
Nicholas DeSilvio
Denice DiCarlo
Jim Jefferson
Christopher Konawel, Jr.

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

Rowan College of South Jersey
Board of Trustees
Gene J. Concordia, Chair
Ruby Love, Vice Chair
Douglas J. Wills, Esq., Treasurer
Len Daws, Secretary
Lita M. Abele
Avé Altersitz
Jennica L. Bileci
Robert L. Bumpus
Danielle Carroll
Reverend Dr. James A. Dunkins
Greg Lopergolo
Dr. Warren S. Wallace
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 2023-24 Rowan College of South Jersey Gloucester Academic Catalog is accurate at the date of publication in September 2023 and is subject to change.
Core Values
Rowan College of South Jersey respects the diversity of its student body and recognizes the worth and potential of each student. Therefore, the College affirms the following values:

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

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

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

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

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

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

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

— June 2020

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.

— 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@jrccdsms.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 07101, phone: 973-504-6430, https://www.njconsumeraffairs.gov/nur.
- 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, A.S.; Accounting, A.A.S; Digital Marketing, A.A.S; and Human Resource Management, A.S. 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.

### Tuition

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<tr>
<td>Cumberland and Gloucester County residents</td>
<td>$120 per credit</td>
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<tr>
<td>Out-of-county residents¹</td>
<td>$148 per credit</td>
</tr>
<tr>
<td>High School Option (HSOP)</td>
<td>$75 per credit (No limit on number of courses)</td>
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<tr>
<td>High School Dual Option</td>
<td>$50 per credit (Classes taken at High school; if taken at RCSJ, pay HSOP rate)</td>
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<tr>
<td>Partnership Agreements</td>
<td>33-50% Discount (Applies only to tuition and per credit fees)</td>
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<tr>
<td>Senior Citizen Discount</td>
<td>100% Discount (On tuition only)</td>
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<td>Out -of-County Veterans</td>
<td>Charged in-county rate</td>
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### Required Fees

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<td>General Service Fee</td>
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<td>Capital Construction Fee</td>
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<td>Admin System Fee</td>
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<td>Laptop</td>
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<td>For students enrolled in Nursing, Allied Health and Health Professions</td>
<td>$1,750 Fee is applied per semester</td>
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<tr>
<td>For students enrolled in Physical Therapy Assistant and Automotive Technology</td>
<td>$1,250 Fee is applied beginning the second academic term</td>
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### Course Fees

Fees are applied to courses according to the following categories. Please check the course description section to see which fees apply to our selected course(s).

- A. Materials Fee-Art Studio: $40
- C. Materials Fee – Science: $75
- D. Applied Music Fee: $230
- E. Foreign Language Fee: $10 per credit
- F. First Day Digital Books: Cost pass-through
- G. Lab Fee – 1 Contact: $120
- H. Lab Fee – 2 Contacts: $240
- I. Lab Fee – 3 Contacts: $360
- K. Curriculum Review Fee: $425
- O. Online Prog Delivery Fee (per credit): $75
- P. Materials Fee - BI 203 Microbiology: $150
- Q. Materials Fee - BI 122 Cell & Molecular: $150

### Additional Fees

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<td>Graduation Petition Fee</td>
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<td>Payment Plan Fee</td>
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<td>Transcripts (processing options)</td>
<td>$5 plus □ Per standard (3-5 business days)</td>
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<td>$10 plus □ Per expedited (next business day)</td>
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<td></td>
<td>$25 (same day)</td>
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<tr>
<td>Replacement Diploma Fee</td>
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<tr>
<td>LEXIS-NEXIS Annual Fee</td>
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<tr>
<td>CCMA, Phlebotomy, EKG and Medical Assistant Fees²</td>
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<tr>
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<tr>
<td>Selective Admissions Late Registration/Reschedule Fee</td>
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<tr>
<td>Other Standardized Test Fees</td>
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<tr>
<td>Accuplacer Challenge Fee</td>
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<tr>
<td>Nursing and Health Professions Program Fee</td>
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</tr>
<tr>
<td>Radiography Program Fee</td>
<td>$1,750.00 per semester</td>
</tr>
<tr>
<td>Stop &amp;/or Reissue Check Fee</td>
<td>□ plus $30.00</td>
</tr>
<tr>
<td>Returned Check Fee</td>
<td>□ plus $30.00</td>
</tr>
<tr>
<td>Reissue NMT Badge</td>
<td>□ plus $30.00</td>
</tr>
<tr>
<td>ID card Replacement Fee</td>
<td>$10.00</td>
</tr>
<tr>
<td>Liability Insurance (Nursing and Health Professions Students only)</td>
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</tr>
<tr>
<td>Portfolio Assessment for Prior Learning</td>
<td>$125.00</td>
</tr>
</tbody>
</table>

* Fee subject to change
= Cost pass through
§ Cost pass through plus $25 administration

¹ Out-of-county students must apply for a Certificate of Residence (charge-back) from their home county as required by State Statute 18A:64A-23; 18A:64B-4.
² The NJVCC Online course fee is an estimate for informational purposes only. 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.
5 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, Allied Health 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)

TUITION PAYMENT PLAN

There is a Tuition Payment Plan designed to enable eligible students to make tuition payments in installments prior to the fall and spring semesters. Eligibility requirements are available at the Bursar and Admissions and Registration Office. Students should review these requirements before applying. A $25 non-refundable deferred payment fee will be charged.

Course Abbreviation Key

**COURSE SECTION NUMBERS**
- ONL## — Online
- LVL## — Live Online
- ALP## — Accelerated Learning Program (our 070 courses and the corresponding college course)
- LVP## — Live Online + ALP
- OFF## — Off Campus
- HYB## — Hybrid
- DC## — Dual Credit (ECHS/HSOP)
- DE## — Dual Enrollment (ECHS/HSOP)
- ## — Traditional in person class

**BUILDING CODES**

Main Campus
- ACAD — Arpino Center
- ADM — Administration
- CEC — Luciano Conference Center
- FPA — Guaracini Arts Center
- LIB — Library
- MILL — Mill Building
- SCI — Alampi Science Building
- STDT — Student Center
- UNIV — University Center
- WHT — Navone Healthcare

Satellite Locations
- CLAY — Clay College
- CMI — Cumberland Mutual Insurance Co.
- FCI — Federal Correctional Instit.
- MAIC — Millville Arts & Innovation Center
- SCOT — Scott Hall Stem Center - Glo.
- BHS — Bridgeton High School
- CTEC — Cumberland Tech Ctr.
- MHS — Millville High School
- SAP — St. Augustine Prep
- VHS — Vineland High School
- CRHS — Cumberland Regional High School
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.
Prior Learning Assessment

Where Experience and What YOU Know Earn College Credit

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

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

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

Brian Britton, 2022 RCSJ graduate, Surveying Engineering Technologies

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

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 856-200-4528, email us at distancelearning@rcsj.edu or visit RCSJ.edu/eLearning and click on "Is eLearning Right for You?"

Fully online programs at RCSJ on both campuses:
- Business Administration
- Human Resource Management
- Digital Marketing
- Computer Information Systems
- Accounting
- Computer Graphic Arts: Game/Interactive Design Option
- Computer Graphic Arts: Print Design Option
- Entrepreneurship
- Technical Studies
- Psychology
- AS Arts & Sciences
- Biology
- Chemistry
- Chemistry: Pre-PharmD Option

Programs that can be completed online at the Cumberland Campus Only:
- Business Management
- Liberal Arts
- Liberal Arts: Social Science Option
- Cybersecurity

Certificates of Achievement that can be completed online:
- Criminal Justice
- Accounting
- Business Software Tools
- Computer Graphic Arts: Game/Interactive Design
- Computer Graphic Arts: Print Design
- Digital Marketing
- Entrepreneurship
- Management
- Technology Help Desk Support
- Website Development

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 • Academic Testing Center</td>
</tr>
<tr>
<td>Internship and Career Planning</td>
<td>College Center, second floor Room 212</td>
</tr>
<tr>
<td>eLearning/Distance Education</td>
<td>Open Computer Labs in Library • 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>LC (Room 603)</td>
</tr>
<tr>
<td>Computer Graphic Arts</td>
<td>Open Computer Labs in Library</td>
</tr>
</tbody>
</table>

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

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

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

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

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

ASSOCIATE IN FINE ARTS DEGREE (A.F.A.)
The Associate in Fine Arts (A.F.A.) degree nomenclature is designed as a transfer program for students who want a concentration of fine arts courses to enter a BFA degree.

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

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

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

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>
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<tr>
<td>General Education**</td>
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<tr>
<td>Electives</td>
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<tr>
<td>Total</td>
<td>60</td>
<td>60</td>
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</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 104 for courses that may be used as general education electives at Rowan College of South Jersey and that have been approved for statewide transfer to four-year institutions.

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

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

RCSJ.edu/Behavioral

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

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

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

DaQuan Ridley, Criminal Justice

ROWAN COLLEGE OF SOUTH JERSEY Cumberland Campus 2023-2024 Catalog
Alcohol & Drug Counseling, A.S.

**FIRST YEAR - Fall Semester**
- SO 201 Introductory Sociology  
- PY 101 General Psychology  
- EN 101 English Composition I  
- HI 103 World History & Culture I or HI 104 World History & Culture II  
- CS 110 Technology Literacy  

**Spring Semester**
- EN 102 English Composition II  
- LS 101 Elementary Spanish I or LS 102 Elementary Spanish II  
- SO 207 Social Minorities & Intergroup Relations  
- SO 217 Human Behavior in the Social Environment I  
- BI 108 Human Biology  

**SECOND YEAR - Fall Semester**
- MA 205 Statistics  
- PY 202 Understanding Addictive Behavior  
- PY 209 Abnormal Psychology  
- PY 212 Social Psychological Counseling  
- SO 219 Human Behavior in the Social Environment II  

**Spring Semester**
- PY 205 Psychopharmacology  
- SO 225 Addictions Counseling  
- SO 226 Addictions Recovery  
- SO 227 Core Functions and Global Criteria  
- SO 223 Alcohol & Drug Field Work  

**TOTAL CREDITS: 60**

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

In today’s society there is a growing vital need for compassionate counselors specializing in the field of alcohol and drugs. The program enhances your natural ability to interact with others, and that capacity is refined into a valuable skill with rewarding professional opportunities. You 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 increase in this field of counseling. This program is designed for students who have an interest in becoming compassionate counselors specializing in the field of alcohol and drugs.

**Program Learning Outcomes**
- Demonstrate an understanding of alcohol and drug abuse
- Identify and analyze the chronic effects of abuses and addictions associated with alcohol and drugs
- Identify prevention methods and interventions for alcohol and drug addictions
- Conduct a mock interview with a person associated with alcohol or drug abuse
- Demonstrate professional/ethical responsibility in legal and cultural issues
- Locate, retrieve & critically evaluate information and information sources.

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

**[ALC.DRUG.CNSL.AS; CIP Code 51.1501]**
Alcohol & Drug Counseling, CERT

[ALC.DRUG.CNSL.AC; CIP Code 51.1501]

Certificate Program

In today's society there is a growing vital need for compassionate counselors specializing in the field of alcohol and drugs. The program enhances your natural ability to interact with others, and that capacity is refined into a valuable skill with rewarding professional opportunities. You’ll 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 increase in this field of counseling.

Program Learning Outcome

Upon Completion of this program, students should 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 prevention 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.

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

**FIRST YEAR - Fall Semester**
- EN 101 English Composition I 3
- CA 101 Introduction to Child Advocacy 3
- SO 201 Introduction to Sociology 3
- CA 102 The Ecological System and the Developing Child 3
- CS 110 Technology Literacy 2

**14**

**Spring Semester**
- EN 102 English Composition II 3
- CA 103 Cultural Competencies in Child Welfare 3
- PY 101 General Psychology 3
- General Education Humanities Elective 3
- General Education Mathematics Elective (excluding MA115) 3

**15**

**SECOND YEAR - Fall Semester**
- SP 203 Effective Speech 3
- HI 101 Western Civilization or HI 102 Western Civilization II 3
- BI 108 Human Biology 4
- CA 104 Children and Justice 3
- MA 205 Statistics I 3

**16**

**Spring Semester**
- CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer 3
- General Education Diversity Elective (GE 101 World Geography or GE 102 Cultural Geography suggested) 3
- HI 201 US History I or US History II 3
- General Education Humanities Elective (AR101 recommended) 3
- CA 105 Child Advocacy Field Work 3

**15**

**TOTAL CREDITS: 60**

**Program Learning Outcomes**
- Recognize and explain a particular understanding of the intricacies of the public child welfare system
- Identify and describe competencies in knowledge, methods, and applications needed for career and professional development in the field of child advocacy.
- To apply and demonstrate knowledge through field work experience in settings such as the office of DCP&P, Child Advocacy centers, Residential Treatment facilities, the Juvenile Justice System, just to name a few.
- To recognize, evaluate, and plan treatment of specific cases of child abuse and neglect in the field of child advocacy.
- To define, explain, and analyze the family unit culturally and identify the needs of that family system.
- To compare and contrast different multidisciplinary and interdisciplinary approaches in child advocacy.
- Access the program to individuals living in the central and southern regions of New Jersey through a distance learning component.

**Associate in Arts (A.A.) – Career**

This program will prepare students to advocate for the rights of children by entering the workforce with an A.A. degree. Students in the program learn about vulnerable conditions that have negative consequences on children and adolescents such as disease, substance abuse, domestic violence, child abuse and neglect. This multidisciplinary approach will offer students with a distinctive educational perspective with which to navigate the intricacies of the public child welfare system and beyond.

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

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

FIRST YEAR - Fall Semester
- CJ 106 Introduction to Criminal Justice 3
- MA 109 Principles of Mathematics 3
- EN 101 English Composition I 3
- PY 101 General Psychology 3
- SO 202 Contemporary Social Problems 3

Spring Semester
- EN 102 English Composition II 3
- CJ 207 The Administration of Justice 3
- CJ 104 Criminal Law 3
- SP 203 Oral Communication 3
- MA 205 Statistics 3

SECOND YEAR - Fall Semester
- PI 241 Forensics I 4
- CJ 102 Introduction to Criminology 3
- Criminal Justice Elective 3
- HS 106 Healthcare Provider Emergency Response with BLS Certification 1
- PH 102 Ethics 3

Spring Semester
- PI 242 Forensics II 4
- General Education Humanities Elective 3
- CJ 111 Constitutional Issues in Criminal Justice 3
- SO 228 Sociology of the Juvenile Delinquency 3
- Criminal Justice Elective 3

TOTAL CREDITS: 60

*Program Electives:
Any Criminal Justice course, or CS 241 Computer Forensics (3 cr)

Program Learning Outcomes
Upon Completion of this program, students should be able to:
- Identify the role of each component of the US criminal justice system.
- Demonstrate knowledge of the US Constitution and the constitutional implication of the criminal procedure in the US as applied to arrest, use of force, and search and seizure.
- Identify the moral, ethical and legal obligations of criminal justice professionals.
- Recognize the roles of various criminal justice professions.
- Locate, retrieve and critically evaluate information and information sources related to the profession.

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

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

Law & Justice Studies 3+1

THIRD Year — Fall Semester
- CJ 301 Drugs and Crime in America 3
- CJ 305 Counseling and Guidance of the Offender 3
- AR 101 Art Appreciation or MU 101 Music Appreciation 3
- Rowan Core Literacy Competency 3
- CJ 205 Criminal Investigation 3

15

Spring Semester
- CJ 308 Theories of Crime and Criminality 3
- Free Elective 3
- PS 201 American Federal Government 3
- Free Elective 3
- Free Elective 3

15

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

Industry & Employment Opportunities

Bachelor
Investigative Analyst, Criminal Justice Teacher, Fraud Investigator

Master
College Professor

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

FIRST YEAR - Fall Semester
- CJ 106 Introductory to Criminal Justice 3
- EN 101 English Composition I 3
- MA 109 Principles of Mathematics 3
- PY 101 General Psychology 3
- SO 201 Introductory Sociology or SO 202 Contemporary Social Problems 3 15

Spring Semester
- CJ 102 Introductory to Criminology 3
- CJ 104 Criminal Law 3
- CJ 207 Administration of Justice 3
- CJ 115 Diversity Issues in Criminal Justice 3
- SP 203 Oral Communication 3 15

TOTAL CREDITS: 30

This certificate stacks into the Criminal Justice, A.S. program.

Certificate Program
Law enforcement and corrections are among the fastest growing career fields in America, according to the U.S. Department of Labor. A range of job opportunities awaits graduates as America becomes a more security-conscious society.

Program Learning Outcomes
Upon Completion of this program, students should be able to:
- Discuss the history and philosophy of the components of the criminal justice system.
- Describe the formal and informal political and community structures that affect criminal justice agencies.
- Recognize the roles of various criminal justice professionals.
- Describe the fundamental concepts and principles of management and administration employed in various police agencies.

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Criminal Justice/ Emergency Management Option, A.S.

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

FIRST YEAR - Fall Semester
- EN 101 English Composition I 3
- MA 109 Principles of Mathematics 3
- PY 101 General Psychology 3
- CJ 107 Introduction to Emergency Management and Homeland Security 3
- SP 203 Oral Communication 3

Spring Semester
- EN 102 English Composition II 3
- MA 205 Statistics I 3
- SO 202 Contemporary Social Problems 3
- CJ 108 Planning for Emergencies 3
- PS 201 American Federal Government 3

SECOND YEAR - Fall Semester
- PI 241 Forensic Science I 4
- CJ 205 Criminal Investigation 3
- CJ 222 Incident Command: Theory and Practice 3
- HS 106 Healthcare Provider Emergency Response with BLS Certification 1
- CJ 103 Introduction to Private Security 3

Spring Semester
- GL 115 Introduction to Geographic Information Systems 3
- PH 102 Ethics 3
- PI 242 Forensics II 4
- CJ 102 Introduction to Criminology 3
- CJ 223 Global Catastrophes 3

TOTAL CREDITS: 60

[JS.EMER.MGT.AS; CIP Code 43.0107]

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 Outcome

Students who have completed the program will be able to:
- Explain Crime and Criminological Theories
- Explain Crime Sources, Trends, and Outcomes
- Demonstrate Current Methods Used for Evidence Collection and Analysis
- Articulate Criminological Theories
- Demonstrate the need for an organized approach to the management of an emergency incident

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

Disaster Preparedness & Emergency Management

THIRD Year — Fall Semester
- EC 101 Principles of Economics I 3
- AR 101 Art Appreciation or MU 101 Music Appreciation 3
- CJ 300 Critical Infrastructure 3
- SCIL Elective 3
- Free Elective 3
- 15

Spring Semester
- CJ 309 Emergency Operations and Business Continuity 3
- CJ 304 Natural and Technological Hazards: Mitigation and Response 3
- LIT Elective 3
- Free Elective 3
- Free Elective 3
- 15

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

Bachelor’s
Director of Emergency Management, Logistics Management, Public Safety Officer

Master’s
College Professor

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

RCSJ.edu/3plus1
Emergency Management, CERT

FIRST YEAR - Fall Semester
- CJ 107 Introduction to Emergency Management and Homeland Security 3
- CJ 222 Incident Command: Theory and Practice 3
- EN 101 English Composition I 3
- PI 241 Forensic Science I 4
- CJ 103 Introduction to Security 3

16

Spring Semester
- GL 115 Introduction to Geographic Information Systems 3
- PI 242 Forensics II 4
- CJ 108 Planning for Emergencies 3
- CJ 223 Global Catastrophes 3
- SP 203 Oral Communication 3
- HS 106 Healthcare Provider Emergency Response with BLS Certification 1

17

TOTAL CREDITS: 33

This certificate stacks into the Criminal Justice/Emergency Management Option, AS program.

Certificate Program
This program provides an excellent foundation for law enforcement, homeland security and first responders. The program is structured to provide the student with exploratory academic experiences in Emergency Management.
**Criminal Justice/ Forensics & Technology, A.S.**

**FIRST YEAR - Fall Semester**
- CJ 106 Introduction to Criminal Justice 3
- CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer 3
- EN 101 English Composition I 3
- PY 101 General Psychology 3
- SO 201 Introduction to Sociology 3

**Spring Semester**
- CJ 207 The Administration of Justice 3
- CJ 104 Criminal Law 3
- EN 102 English Composition II 3
- MA 109 Principles of Mathematics 3
- SP 203 Oral Communication 3

**SECOND YEAR - Fall Semester**
- CJ 120 Cybercrime or CS 241 Computer Forensics 3
- CJ 102 Introduction to Criminology 3
- PH 102 Ethics 3
- HS 106 Healthcare Provider Emergency Response with BLS Certification 1
- PI 241 Forensics I 4

**Spring Semester**
- CJ 215 Criminal Justice Fieldwork or Criminal Justice Elective 3
- CJ 216 Crime Analysis & Mapping 3
- CJ 111 Constitutional Issues in Criminal Justice 3
- PI 242 Forensics II 4

**TOTAL CREDITS: 60**

**Program Learning Outcomes**

Upon completion of this program, students should be able to:

- Identify the role of forensics.
- Identify the role of each component of the US criminal justice system.
- Demonstrate knowledge of the US Constitution and the constitutional implication of the criminal procedure in the US as applied to arrest, use of force, and search and seizure.
- Identify the moral, ethical and legal obligations of criminal justice professionals.
- Recognize the roles of various criminal justice professions.
- Locate, retrieve and critically evaluate information and information sources related to the profession.

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

**FIRST YEAR - Fall Semester**
- AR 103 Introduction to Art Therapy and Methods 3
- AR 110 Fundamentals of Drawing 3
- CS 101 Introduction to Microcomputers or CS 110 Information Technology 2-3
- EN 101 English Composition I 3
- MA 109 Principles of Math or MA 205 Statistics 3

**Spring Semester**
- AR 107 Art History I 3
- CR 101 Ceramics I 3
- EN 102 English Composition II 3
- PY 101 General Psychology 3
- General Education History Elective 3

**SECOND YEAR - Fall Semester**
- AR 104 Introduction to Art Therapy in Practice 3
- PY 207 Human Growth and Development 3
- General Education Diversity Elective 3
- General Education Science Elective 4
- General Education Humanities Elective 3

**Spring Semester**
- AR 200 Two-Dimensional Design 3
- SP 203 Effective Speech 3
- General Education History Elective 3
- General Education Humanities Elective 3
- General Education Math or Science Elective 3-4

**TOTAL MINIMUM CREDITS: 60**

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

For students who want to transfer into a bachelor's degree program in art therapy. The option offers a strong foundation in the fundamentals of art therapy. Students who wish to pursue a degree in art therapy will learn to explore an individual's problems and potential, while using art to cultivate physical and emotional well-being. The curriculum includes an interaction between theoretical learning and artistic learning.

**Program Learning Outcomes**

Upon completion of this program, students should be able to:
- Analyze the relationship between art making and art therapy.
- Use a variety of art materials and therapeutic art techniques to gain an understanding of the healing nature of the art process.
- Identify the major theoretical approaches of the pioneers who developed art therapy as a profession.
- Identify and discuss the developmental stages of art, the therapeutic process, and the stages of therapy.
- Locate, retrieve, and critically evaluate information and information sources.

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

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

### Program Information

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

### Program Learning Outcomes

Upon Completion of this program, students will be able to:

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

### FIRST YEAR - Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>EN 101</td>
<td>English Composition I</td>
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<tr>
<td>General Education Mathematics Elective</td>
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<tr>
<td>PY 101</td>
<td>General Psychology</td>
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<td>FS 101</td>
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<td>HI 101</td>
<td>Western Civilization I</td>
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### Spring Semester

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<tr>
<td>MA 205</td>
<td>Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>SO 201</td>
<td>Introductory Sociology</td>
<td>3</td>
</tr>
<tr>
<td>HI 102</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>Psychology Elective</td>
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### SECOND YEAR - Fall Semester

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<td>BI 108</td>
<td>Human Biology</td>
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<tr>
<td>General Education Literature Elective</td>
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<tr>
<td>General Education Diversity Elective</td>
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<tr>
<td>AR 101</td>
<td>Art Appreciation or MU 101 Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>Psychology Elective</td>
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### Spring Semester

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<tr>
<td>SP 203</td>
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<tr>
<td>General Education Science Elective</td>
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<tr>
<td>PH 101</td>
<td>Introduction to Philosophy</td>
<td>3</td>
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<tr>
<td>General Education Humanities Elective</td>
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<tr>
<td>Psychology Elective</td>
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<td>3</td>
</tr>
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<td></td>
<td>Total</td>
<td>16</td>
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</tbody>
</table>

### TOTAL CREDITS: 60
The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

Psychology 3+1

THIRD YEAR — Fall Semester
- PY 305 Psychology of Scientific Thinking 3
- PY 240 Social Psychology 3
- RL 102 World Religions 3
- Free Elective 3
- Free Elective 3

Spring Semester
- PY 310 Psychology as a Profession and Practice 3
- PY 209 Abnormal Psychology 3
- Free Elective 3
- Free Elective 3
- Free Elective 3

15

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

Bachelor’s
Registered Behavioral Technician, Mental Health Associate, Therapeutic Technician

Master’s
College Professor, Clinical Psychologist, Behavioral Analyst

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

RCSJ.edu/3plus1
Social Service, A.S.

FIRST YEAR - Fall Semester
- CS 101 Introduction to Microcomputers or CS 110 Technology Literacy 2-3
- EN 101 English Composition I 3
- HI 103 World History and Culture I or HI 104 World History and Culture II 3
- SO 201 Introductory Sociology 3
- General Education Foreign Language Elective 3

14-15

Spring Semester
- EN 102 English Composition II 3
- MA 205 Statistics I 3
- PY 101 General Psychology 3
- SO 202 Contemporary Social Problems 3
- SP 203 Effective Speech 3

15

SECOND YEAR - Fall Semester
- BI 108 Human Biology 4
- PA 101 Public Administration 3
- SO 207 Social Minorities & Intergroup Relations 3
- SO 217 Human Behavior in the Social Environment I 3
- SO 221 Social Service Fieldwork I 3

16

Spring Semester
- SO 212 Social Psychological Counseling 3
- SO 219 Human Behavior in the Social Environment II 3
- SO 220 Introduction to Social Welfare & Social Work 3
- SO 222 Social Service Field Work II 3
- Social Service Program Elective* 3

15

TOTAL MINIMUM CREDITS: 60

*Program Electives
- PY 202 Introduction to Addictive Behavior
- PY 209 Abnormal Psychology
- SO 205 Introduction to Gerontology
- SO 215 Death & Dying
- SO 216 Sociology of the Family

Program Learning Outcomes
Upon completion of this program, students should be able to:
- Demonstrate a knowledge and acceptance of social work values and ethics.
- Describe the social workers’ role within the social service field.
- Implement a multidisciplinary approach to problem-solving intervention.
- Locate, retrieve and critically evaluate information and information sources related to the profession.

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

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

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

RCSJ.edu/Business

Sarah Hart, Business Administration

Choose from 4 academic delivery styles:

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

Find Your Program

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

Find Your Opportunity

RCSJ’s Division of Business Studies provides access to globally accredited degree programs, specialized certificates, internship experiences and personalized advice to prepare students for profitable careers in local, regional and global economies. Whether you attend classes on the Cumberland campus, the Gloucester campus or online, you are guaranteed a quality education at one of the lowest tuition rates in New Jersey.
BUSINESS STUDIES DIVISION

Accounting, A.A.S.

[ACT.AAS; CIP Code 52.0302]

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

The goal of this program is to provide basic accounting knowledge and skills for a career in the accounting field. This program has additional globally recognized accreditation through the Accreditation Council for Business Schools and Programs (ACBSP).

Program Learning Outcomes

Students who have completed the program will be able to:

• 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.

FIRST YEAR - Fall Semester

- AC 103 Accounting I 4
- BU 115 Introduction to Business 3
- CS 113 Introduction to Computers 4
- EN 101 English Composition I 3
- MA 105 Intermediate Algebra 4
- Total Credits: 18

FIRST YEAR - Spring Semester

- AC 104 Accounting II 4
- CS 119 Spreadsheets - EXCEL 4
- EN 102 English Composition II 3
- EN 204 Business Communications 3
- MA 205 Statistics 3
- Total Credits: 17

SECOND YEAR - Fall Semester

- AC 221 Managerial Accounting 3
- AC 231 Federal Income Taxes 3
- BU 109 Business Law I 3
- BU 123 Personal and Professional Branding 1
- EC___ Economics Elective 3
- Total Credits: 13

Spring Semester

- AC 207 Accounting Information Systems 3
- BU 110 Business Law II 3
- CS 207 Management Information Systems 3
- IC 211 Internship Career Connections 3
- Total Credits: 12

TOTAL CREDITS: 60

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

Core Courses
- AC 103 Accounting I 4
- AC 104 Accounting II 4
- CS 119 Spreadsheets - EXCEL 4
- AC 207 Accounting Information Systems or AC 231 Federal Income Taxes or AC 221 Managerial Accounting 3
- BU 123 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.*

### FIRST YEAR - Fall Semester
- AC 103 Accounting I  
- CS 113 Introduction to Computers  
- EN 101 English Composition I  
- MA 122 Business Calculus

<table>
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<th>Course</th>
<th>Credits</th>
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<tr>
<td>AC 103 Accounting I</td>
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<td>CS 113 Introduction to Computers</td>
<td>4</td>
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<tr>
<td>EN 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MA 122 Business Calculus</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
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### Spring Semester
- AC 104 Accounting II
- EN 102 English Composition II
- SP 203 Effective Speech
- General Humanities Elective

<table>
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<th>Course</th>
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<tr>
<td>AC 104 Accounting II</td>
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<td>SP 203 Effective Speech</td>
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<tr>
<td>General Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>13</strong></td>
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</table>

### SECOND YEAR - Fall Semester
- BU 106 Principles of Management* or
  - AC 221 Managerial Accounting
  - PY 101 General Psychology
  - SO 201 Introduction to Sociology
- BU 109 Business Law I
- BU 207 Principles of Marketing
- EC 201 Principles of Economics I
- MA 205 Statistics I

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BU 106 Principles of Management*</td>
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<td>AC 221 Managerial Accounting</td>
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<td>PY 101 General Psychology</td>
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<tr>
<td>SO 201 Introduction to Sociology</td>
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<tr>
<td>BU 109 Business Law I</td>
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<tr>
<td>BU 207 Principles of Marketing</td>
<td>3</td>
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<tr>
<td>EC 201 Principles of Economics I</td>
<td>3</td>
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<tr>
<td>MA 205 Statistics I</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### Spring Semester
- BU 110 Business Law II
- CS 114 Fundamentals of Programming**
  - General Education Elective
- CS 207 Management Information Systems
- EC 202 Principles of Economics II
- General Education Science Elective with lab

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>BU 110 Business Law II</td>
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<tr>
<td>CS 114 Fundamentals of Programming**</td>
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<td>General Education Elective</td>
<td>4</td>
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<tr>
<td>CS 207 Management Information Systems</td>
<td>3</td>
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<tr>
<td>EC 202 Principles of Economics II</td>
<td>3</td>
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<tr>
<td>General Education Science Elective with lab</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS: 60**

* 3+1 students should take PY101. If transferring to Rowan University, choose PY 101 or SO 201.

** 3+1 students and those planning to major in Management Information Systems at Rowan should choose CS114.

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**Associate in Science (A.S.) — Transfer**

The Business Administration program gives students a broad introduction to business while preparing them for transfer to a four-year institution. The curriculum meets the requirements of the first two years of study at most colleges and universities. This program has additional globally recognized accreditation through the Accreditation Council for Business Schools and Programs (ACBSP).

**Program Learning Outcomes**

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

---

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

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

Business Administration: Global Business/Leadership 3+1

THIRD YEAR — Fall Semester
- BUS 310 Business Logistics 3
- BUS 300 Applied Organizational Behavior 3
- World Language 101 Level Elective 3
- International Course Elective 3
- Free Elective 3
- Total 15

Spring Semester
- BUS 304 Issues in Business: Directed Research 3
- BUS 308 Applied Human Resource Management II 3
- CEP 211 Internship Career Connections 3
- World Language 102 Level Elective 3
- ENG ____ Literature Course Elective 3
- Total 15

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

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

Master
- Financial Data Analyst, Data Scientist
BUSINESS STUDIES DIVISION

Business Software Tools, COA

- CS 113  Introduction to Computers  
- CS 119  Spreadsheets - EXCEL  
- CS 211  Relational Databases  
- AC 207  Accounting Information Systems or CS ___ CS Elective  
- BU 123  Personal & Professional Branding

TOTAL CREDITS: 16

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

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

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

FIRST YEAR - Fall Semester
- AR 131 Introduction to Digital Photography 3
- CG 106 Design, Color and Type 3
- CG 115 Foundations of Computer Graphic Arts 3
- EN 101 English Composition I 3
- MA 109 Principles of Mathematics 3
- Total Credits: 15

Spring Semester
- CG 118 Introduction to Animation 3
- CG 121 Intro to Electronic Publishing and Typography 3
- CG 130 Video and Audio Editing 3
- EN 102 English Composition II 3
- General Elective 3
- Total Credits: 15

SECOND YEAR - Fall Semester
- CG 212 Screen Graphics 3
- CG 215 Electronic Illustration I 3
- CG 217 Electronic Image Processing 3
- EN 204 Business Communications or IC 211 Internship Career Connections 3
- Social Science Elective 3
- Total Credits: 15

Spring Semester
- AR 231 Intermediate Digital Photography 3
- CG 219 Web Design 3
- CG 218 Game and Interactive Authoring 3
- General Education Elective 3
- General Education Elective 3
- Total Credits: 15

TOTAL CREDITS: 60

Program Notes
Computer Graphic Arts is an academic program that requires students to complete assignments beyond class time. The Computer Graphic Arts program requires students to have a computer at home with specific technology requirements, which will allow students to run the Adobe Creative Cloud Software Suite. For the specific technical requirements for the computer, please see 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.
Computer Graphic Arts – Game/Interactive Design, COA

- CG 106 Design, Color and Type 3
- CG 118 Introduction to Animation 3
- CG 130 Video and Audio Editing 3
- CG 212 Screen Graphics 3
- CG 218 Game and Interactive Authoring 3
- CG 219 Web Design 3

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.

FIRST YEAR - Fall Semester
- CG 106 Design, Color and Type 3
- CG 115 Foundations of Computer Graphic Arts 3
- AR 110 Fundamentals of Drawing 3
- EN 101 English Composition I 3
- MA 109 Principles of Mathematics 3

Spring Semester
- AR 131 Intro to Digital Photography 3
- CG 130 Video and Audio Editing 3
- CG 121 Introduction to Electronic Publishing and Typography 3
- EN 102 English Composition II 3
- General Education Elective 3

SECOND YEAR - Fall Semester
- CG 220 Advanced Electronic Publishing 3
- CG 215 Electronic Illustration I 3
- CG 217 Electronic Image Processing 3
- EN 204 Business Communications or IC 211 Internship 3
- General Education Social Science Elective 3

Spring Semester
- CG 219 Web Design 3
- AR 107 Art History I 3
- General Education Elective 3
- General Education Elective 3
- AR 231 Intermediate Digital Photography 3

TOTAL CREDITS: 60

Program Notes
Computer Graphic Arts is an academic program that requires students to complete assignments beyond class time. The Computer Graphic Arts program requires students to have a computer at home with specific technology requirements, which will allow students to run the Adobe Creative Cloud Software Suite. For 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.

Program Contact
Jennifer Riggio, Program Coordinator
jriggio1@rcsj.edu

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

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

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Computer Graphic Arts - Print Design, COA

[CGAP.COA; CIP Code 11.0803]

Certificate of Achievement

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

- CG 106 Design, Color and Type 3
- CG 121 Introduction to Electronic Publishing and Typography 3
- CG 220 Advanced Electronic Publishing 3
- CG 215 Electronic Illustration I 3
- CG 217 Electronic Image Processing 3
- CG 219 Web Design 3

TOTAL CREDITS: 18

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

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
[CIS.AS; CIP Code 11.0101]

Associate in Science (A.S.) — Transfer

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

Program Learning Outcomes

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

FIRST YEAR - Fall Semester

- EN 101 English Composition I  3
- MA 205 Statistics I  3
- CS 113 Introduction to Computers  4
- CS 156 Web Development - HTML/CSS  4

Spring Semester

- EN 102 English Composition II  3
- CS 114 Fundamentals of Programming  4
- CS 119 Spreadsheets - EXCEL  4  
- CS 157 Advanced Web Development  3

SECOND YEAR - Spring Semester

- EC 201 Principles of Economics I  3
- CS 211 Relational Databases  4
- CS 256 Web Programming  3
- Humanities Elective  3
- Business Elective*  3-4  

TOTAL MINIMUM CREDITS: 60

Business Electives*

- AC 103 Accounting I  4
- BU 109 Business Law I  3
- AC 207 Accounting Information Systems  3
- BU 207 Principles of Marketing  3
- BU 216 Social Media Marketing and Web Analytics  3
- BU 106 Principles of Management  3

Program Electives**

- CS 242 Principles of Information Security  3
- CS 224 IT Help Desk/Technical Support  3
- IC 211 Internship Career Connections  3
Digital Marketing, A.A.S.

**FIRST YEAR - Fall Semester**
- EN 101 English Composition I 3
- BU 115 Introduction to Business 3
- CS 113 Introduction to Computers 4
- CS 156 Web Development - HTML/CSS 4
- MA 205 Statistics I 3
  **Total:** 17

**Spring Semester**
- EN 102 English Composition II 3
- BU 207 Principles of Marketing 3
- CS 157 Advanced Web Development 3
- Program Elective* 3-4
- General Education Elective 3
  **Total:** 15-16

**SECOND YEAR - Fall Semester**
- SP 203 Effective Speech 3
- AC 103 Accounting I 4
- BU 216 Social Media Marketing and Web Analytics 3
- BU 106 Principles of Management 3
- EN 204 Business Communication 3
  **Total:** 16

**Spring Semester**
- Humanities or Social Science Elective 3
- CS 207 Management Information Systems 3
- BU 117 Principles of Advertising 3
- IC 211 Internship Career Connections 3
  **Total:** 12

**Program Electives* (select one)**
- CG 106 Design, Color and Type
- AC 104 Accounting Principles II
- BU 109 Business Law I
- BU 121 Business Ethics
- BU 210 Organizational Behavior
- CG 115 Foundations of Computer Graphic Arts
- CS 119 Spreadsheets - EXCEL
- CO 101 Mass Media Influence

**TOTAL MINIMUM CREDITS: 60**

**Program Learning Outcomes**

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

**Program Notes**

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

Core Courses
- BU 207 Principles of Marketing 3
- BU 216 Social Media Marketing and Web Analytics 3
- BU 117 Principles of Advertising 3
- CS 156 Web Development – HTML/CSS 4
- CS 157 Advanced Web Development 3

TOTAL CREDITS: 16

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

FIRST YEAR - Fall Semester
- AC 103 Accounting Principles I 4
- BU 109 Business Law I 3
- BU 122 Introduction to Entrepreneurship 3
- EN 101 English Composition I 3

Spring Semester
- BU 106 Principles of Management 3
- BU 207 Principles of Marketing 3
- CS 113 Introduction to Computers 3
- EN 102 English Composition II or EN 103 Technical Writing 3
- SP 203 Effective Speech 3

SECOND YEAR - Fall Semester
- BU 117 Principles of Advertising 3
- BU 212 Human Resource Management 3
- CS 119 Spreadsheets - EXCEL 3
- EC 202 Principles of Economics II 3
- General Education Mathematics Elective (MA 109 or higher, excluding MA 115) 3

Spring Semester
- AC 207 Accounting Information Systems 3
- BU 209 Small Business Management 3
- BU 216 Social Media Marketing and Web Analytics 3
- BU 249 Introduction to International Business or EN 204 Business Communications 3
- General Education Humanities Elective 3

TOTAL CREDITS: 60

Associate in Applied Science - Career

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

Program Learning Outcomes

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

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

[ENTR.COA; CIP Code 52.0701]

Certificate of Achievement

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

- BU 122 Introduction to Entrepreneurship 3
- BU 209 Small Business Management 3
- BU 106 Principles of Management 3
- CS 113 Introduction to Computers or CS 119 Spreadsheets - EXCEL 4
- Program Elective 3-4

TOTAL MINIMUM CREDITS: 16

Program Electives
AC 103 Accounting I 4
BU 109 Business Law I 3
AC 207 Accounting Information Systems 3
BU 207 Principles of Marketing 3
BU 216 Social Media Marketing and Web Analytics 3
BU 212 Human Resource Management 3
EN 204 Business Communication 3
SP 203 Effective Speech 3

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

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

**FIRST YEAR - Fall Semester**
- AC 103 Accounting I  
- BU 123 Personal and Professional Branding  
- CS 113 Introduction to Computers  
- EN 101 English Composition I  

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>AC 103</td>
<td>Accounting I</td>
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<tr>
<td>BU 123</td>
<td>Personal and Professional Branding</td>
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<tr>
<td>CS 113</td>
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<tr>
<td>EN 101</td>
<td>English Composition I</td>
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**Spring Semester**
- AC 104 Accounting Principles II  
- BU 106 Principles of Management  
- EN 102 English Composition II  
- MA 149 Mathematics for Management  
- PY 101 General Psychology  

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<td>AC 104</td>
<td>Accounting Principles II</td>
<td>4</td>
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<tr>
<td>BU 106</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>EN 102</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MA 149</td>
<td>Mathematics for Management</td>
<td>4</td>
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<tr>
<td>PY 101</td>
<td>General Psychology</td>
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</table>

**SECOND YEAR - Fall Semester**
- BU 210 Organizational Behavior  
- BU 212 Human Resource Management  
- SP 203 Effective Speech  
- General Education Humanities Elective  
- General Education Science Elective  

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>BU 210</td>
<td>Organizational Behavior</td>
<td>3</td>
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<tr>
<td>BU 212</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>SP 203</td>
<td>Effective Speech</td>
<td>3</td>
</tr>
<tr>
<td>General Education Humanities Elective</td>
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<td></td>
</tr>
<tr>
<td>General Education Science Elective</td>
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</table>

**Spring Semester**
- BU 121 Business Ethics  
- BU 207 Principles of Marketing  
- BU 239 Organizational Development  
- IC 211 Internship Career Connections  
- EC 201 Principles of Economics I  

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>BU 121</td>
<td>Business Ethics</td>
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<tr>
<td>BU 207</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BU 239</td>
<td>Organizational Development</td>
<td>3</td>
</tr>
<tr>
<td>IC 211</td>
<td>Internship Career Connections</td>
<td>3</td>
</tr>
<tr>
<td>EC 201</td>
<td>Principles of Economics I</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS: 60**

**[HRM.AS; CIP Code 52.1005]**

**Associate in Science (A.S.) — Transfer**

The goal of this program is to provide students with a broad introduction to human resources and the business context within which the function will operate, while preparing them for transfer to a four-year institution. The curriculum meets the requirements of the first two years of study for many colleges and universities. This program has additional globally recognized accreditation through the Accreditation Council for Business Schools and Programs (ACBSP).

**Program Learning Outcomes**

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

Core Courses
- BU 106 Principles of Management 3
- BU 212 Human Resource Management 3
- BU 210 Organizational Behavior 3
- BU 239 Organizational Development 3
- BU 121 Business Ethics 3
- BU 123 Personal and Professional Branding 1

TOTAL CREDITS: 16

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

Certificate of Achievement

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

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

**FIRST YEAR - Fall Semester**
- CS 170 PC Services & Support / A+ Certification 4
- CS 175 Core Client Operating Systems 3
- CS 217 Introduction to Networks 4
- EN 101 English Composition I 3
- FS 101 Freshman Seminar 1

**Total Minimum Credits: 15**

**Spring Semester**
- CS 229 Linux Installation and Configuration 3
- CS 233 Routing and Switching Essentials 4
- CS 275 Core Server Operating Systems 4
- EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech 3
- General Education Diversity Elective 3

**Total Minimum Credits: 17**

**SECOND YEAR - Spring Semester**
- CS 226 Network Infrastructure Implementation 4
- CS 228 Active Directory Design and Implementation 4
- CS 234 Scaling Networks 4
- General Education Mathematics Elective (excluding MA 115) 3

**Total Minimum Credits: 15**

**Summer Semester**
- CS 235 Connecting Networks 4
- General Education Social Science Elective 3
- General Education Humanities Elective 3
- General Education Mathematics Elective (excluding MA 115) 3-4

**Total Minimum Credits: 13-14**

**TOTAL MINIMUM CREDITS: 60**

*Associate in Applied Science - Career*

This program is designed to prepare students for technical positions in networking and networking-related environments.

**Program Learning Outcomes**

Upon Completion of this program, students should be able to:
- Demonstrate Network Management Theory.
- Demonstrate practical ability to apply Network Management concepts.
- Demonstrate practical ability to configure operating systems.
Technology Help Desk Support, COA

Core Courses
- CS 113 Introduction to Computers 4
- CS 119 Spreadsheets - EXCEL 4
- CS 211 Relational Databases 4
- CS 224 IT Help Desk/Technical Support 3
- CS ___ Elective or IC 211 Internship & Career Connections 3

TOTAL CREDITS: 18

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

Certificate of Achievement

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

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

Core Courses
- CS 156 Web Development - HTML/CSS 4
- CS 157 Advanced Web Development 3
- CG 212 Screen Graphics 3
- CS 114 Fundamentals of Programming 4
- CS 256 Web Programming 3

TOTAL CREDITS: 17

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

Certificate of Achievement
This certificate program is designed to prepare graduates to qualify for the entry-level and/or advanced positions in the field of website development. Graduates could be employed in positions with job titles such as web designer, web developer or web editor. A Certificate of Achievement also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.
Invest in your future by developing the skills and knowledge required for employment in high-wage, fast-growing industries.

RCSJ.edu/CTE

Angelina Zeller, Certified Nursing Assistant

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

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

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

A joint AAS degree program with Camden County College (Online Completion)

**FIRST YEAR - RCSJ**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
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<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>BI 106 Anatomy and Physiology I</strong></td>
<td>4</td>
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<tr>
<td></td>
<td><strong>CS 101 Introduction to Microcomputers</strong></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>EN 101 English Composition I</strong></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>HS 103 Medical Terminology</strong></td>
<td>2</td>
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<td></td>
<td><strong>MA 205 Statistics I</strong></td>
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<th>Semester</th>
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<tr>
<td><strong>Spring Semester</strong></td>
<td><strong>BI 107 Anatomy and Physiology II</strong></td>
<td>4</td>
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<td></td>
<td><strong>EN 102 English Composition II</strong></td>
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<tr>
<td></td>
<td><strong>HS 140 Legal and Ethical Issues in Healthcare</strong></td>
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<td></td>
<td><strong>General Education Diversity Elective or General Education Social Science</strong></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>HS 104 Introduction to Health Information</strong></td>
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**SECOND YEAR - Camden County College online**

<table>
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<tr>
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<th>Course</th>
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<tbody>
<tr>
<td><strong>Summer Semester</strong></td>
<td><strong>HIT 132 Pharmacology</strong></td>
<td>3</td>
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<td><strong>Fall Semester</strong></td>
<td><strong>HIT 110 Health Informatics</strong></td>
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<td><strong>HIT 115 Healthcare Reimbursement</strong></td>
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<td></td>
<td><strong>HIT 130 Introduction to Ambulatory Coding</strong></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>HIT 134 Basic Pathophysiology</strong></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>HIT 140 Diagnostic and Procedural Coding I</strong></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>HIT 150 Technical Practice Experience</strong></td>
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<tr>
<th>Semester</th>
<th>Course</th>
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<tbody>
<tr>
<td><strong>Spring Semester</strong></td>
<td><strong>HIT 202 Statistical Methods for Health Information</strong></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>HIT 215 Advanced Ambulatory Coding</strong></td>
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<td></td>
<td><strong>HIT 235 Organizational Resources, QI and PI</strong></td>
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<td><strong>HIT 220 Professional Practice Experience</strong></td>
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<tr>
<td></td>
<td><strong>HIT 240 Diagnostic and Procedural Coding II</strong></td>
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<td><strong>Total</strong></td>
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<td><strong>16</strong></td>
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**TOTAL CREDITS: 67**

**Program Learning Outcomes**

Upon Completion of the program, students should be able to:

- Effectively demonstrate competencies with the most current coding software.
- Effectively use practical coding tools such as medical records and operative reports.
- Effectively demonstrate entry-level competencies in the area of Health Information Management (HIM)
- Be eligible to take the national certification examination for Registered Health Information Technician (RHIT) offered by the American Health Information Management Association (AHIMA)
# Medical Coding, CERT

A joint certificate program with Camden County College

## FIRST YEAR - Fall Semester @ RCSJ
- BI 108 Human Biology ... 4
- CS 101 Introduction to Microcomputers ... 3
- EN 101 English Composition I ... 3
- HS 103 Medical Terminology ... 2
- HS 104 Introduction to Health Information ... 3

**TOTAL CREDITS: 15**

## Spring Semester @ Camden County College online
- HIT 115 Healthcare Reimbursement ... 3
- HIT 130 Introduction to Ambulatory Coding ... 3
- HIT 134 Basic Pathophysiology ... 3
- HIT 140 Diagnostic and Procedural Coding I ... 3

**TOTAL CREDITS: 12**

## SECOND YEAR - Fall Semester @ Camden County College online
- HIT 132 Basic Pharmacology ... 3
- HIT 135 Medical Coding Internship ... 2
- HIT 215 Advanced Ambulatory Coding ... 3
- HIT 240 Diagnostic and Procedural Coding II ... 4

**TOTAL CREDITS: 12**

### Program Learning Outcomes
Program Learning Outcomes Upon Completion of the program, students should be able to:
- Effectively demonstrate competencies with the most current coding software.
- Effectively use practical coding tools such as medical records and operative reports.
- Take the national entry-level certification by the American Health Information Management Association (AHIMA) with the Certified Coding Associate (CCA) credential.
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.

**Risk Management and Insurance, A.A.S.**

**FIRST YEAR - Fall Semester**
- IN 104 Ethics and Professional Conduct 3
- IN 105 Property and Liability Insurance Principles 3
- IN 106 Claim Handling Principles and Practices 3
- EN 101 English Composition I 3
- BU 109 Business Law 3

**Spring Semester**
- IN 107 Property Claims Practices 3
- IN 108 Liability Claim Practices 3
- IN 109 Property and Liability Coverages 3
- MA 109 Principles of Mathematics or MA 110 College Algebra 3
- General Education Elective 3

**SECOND YEAR - Fall Semester**
- EN 102 English Composition II’ or EN 103 Technical Writing 3
- SP 203 Effective Speech 3
- MA 205 Statistics I 3
- IN 209 Risk in an Evolving World 3
- PY 101 General Psychology 3

**Spring Semester**
- IN 210 Holistically Assessing Risk 3
- IN 212 Risk Treatment 3
- CS 101 Introduction to Microcomputers 3
- BU 247 Leadership 3
- General Education Diversity Elective 3

**STUDENTS MAY SIT FOR THE INSTITUTE’S ARM EXAM AT THIS TIME.**

**TOTAL CREDITS: 60**

*Students enrolled in Rowan Partnerships Online (RPO) program intending to transfer to Rowan University should take EN102.*

**Program Learning Outcomes**

Students who have completed the program will be able to:
- Demonstrate knowledge of the CPCU Code of Professional Conduct, the nine CPCU Cannons, and application of these to ethical dilemmas in insurance practice.
- Demonstrate mastery of the practical and legal details of insurance claims handling.
- Demonstrate techniques for identifying, analyzing, and treating risk based on common frameworks.

**INS.CLM.RSK.MGMT.AAS; CIP Code 52.1701**

**Associate in Applied Science - Career**

Insurance professionals make a career out of protecting their community and helping people in times of need. If you want to make a difference, an insurance career may be right for you. Students in this program will be prepared to take The Institutes certification examinations as they move through the program. At the completion of year one, full-time students who have passed The Institutes’ exams will have earned their Associate in Claims (AIC) Certification. At the completion of the second year, in addition to completing their Cumberland A.A.S., students who have passed The Institute’s exams will have earned their Associate in Risk Management (ARM) certification. Awarding of the Cumberland degree will not be dependent on achievement of The Institutes certification.
Technical Studies, A.A.S.

[TECH.STUD.AAS; CIP Code 15.9999]

Associate in Applied Science - Career

The Associate in Applied Science Degree in Technical Studies is available to students who have successfully completed apprenticeship and other formal corporate, industrial or military programs. Three to 25 technical credits may be awarded toward degree completion for education received in apprenticeship and other formal training programs. The remaining credits required for degree completion are general education courses and career related courses.

A faculty assessor will evaluate the course content from the apprenticeship, corporate, industrial, or military training program. The program will be evaluated for:

- How an apprenticeship or other corporate, industrial or military programs translate into college credits
- Collegiate-level depth of curriculum beyond entry-level requirements
- Company and trainer certifications

**FIRST YEAR - Fall Semester**
- EN 101 English Composition I 3
- General Education Mathematics Elective or General Education Science Elective or General Education Technology Elective 3-4
- General Education Elective 3-4
- Technical Electives* 3-4

Total Credits: 12-15

**Spring Semester**
- EN 102 English Composition II 3
- General Education Social Science Elective or General Education Humanities Elective 3
- Technical Elective* 3-4
- Technical Electives* 3-4

Total Credits: 12-14

**SECOND YEAR - Fall Semester**
- General Education Diversity Elective 3
- General Education Elective 3-4
- Technical Elective* 3-4

Total Credits: 9-12

**Spring Semester**
- Technical Elective* 3-4

Total Credits: 3-4

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

Total Minimum Credits: 60

* Technical electives may be selected from any of the following areas:
  - Business Studies—BU, AC, EC;
  - Computer Aided Drafting and Design – EG, IT, MA;
  - Engineering Technology - EG, IT, PI, MA;
  - Construction Supervision – CM, IT, BU

** 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.

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Harness your creativity and showcase an array of techniques for communication and cultural appreciation through verbal, written and visual expression.

RCSJ.edu/CCPA

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

Find Your Program

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

Find Your Opportunity

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

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

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

FIRST YEAR - Fall Semester
- EN 101 English Composition I
- MA General Education Mathematics Elective
- PY 101 General Psychology
- HI 101 Western Civilization I
- CO 217 Applied Media Aesthetics
- FS101 Freshman Seminar
  3
  3
  3
  3
  3
  1
  16

First Year, Spring Semester
- EN 102 English Composition II
- General Education Math Elective
- AR 101 Art Appreciation or MU 101: Music Appreciation
- HI 102 Western Civilization II
- CO 216 Foundations of Media Production
  3
  3
  3
  3
  15

Second Year, Fall Semester
- SP 203 Effective Speech
- General Education Science Elective (with lab)
- SO 201 Introductory Sociology
- General Diversity Elective
- CO 212 TV History and Appreciation
  3
  4
  3
  3
  3
  16

Second Year, Spring Semester
- PH 101 Introduction to Philosophy
- General Education Science Elective (with lab)
- General Education Humanities Elective (Broad-based HUP)
- CO 210 Film History and Appreciation
  3
  4
  3
  3
  13

TOTAL CREDITS: 60

[TV.PROD.LA.AA; CIP Code 24.0101]

Associate in Arts - Transfer

Rowan College of South Jersey Cumberland Campus welcomes students seeking a post-secondary education. Admission to this program is open to high school graduates, High School Equivalency (HSE) recipients or others who can benefit from the instruction offered. High school students may be considered for early admission or the High School Option program. Applications are accepted from residents of other New Jersey counties and other states and countries.

Program Outcomes

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

Program Contact
Nathaniel Clark
nclark4@rcsj.edu
856-200-4604

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

Radio, Television and Film 3+1

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

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

Total Credits: 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.

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

Bachelor
Producer, Director, Journalist, Editor

Questions?
About 3+1: Alescia Kennon, akennon1@rcsj.edu
About the Program: Nathaniel Clark, nclark4@rcsj.edu
856-200-4604

RCSJ.edu/3plus1
Ceramics Technology, CERT

FIRST YEAR - Fall Semester
- AR 110 Fundamentals of Drawing 3
- CR 101 Ceramics I 3
- EN 101 English Composition I 3
- General Education Humanities Elective 3

Total Credits: 12

Spring Semester
- AR 205 3-Dimensional Design 3
- CR 102 Ceramics II 3
- CR 105 Sculptural Ceramics 3
- CR 106 Ceramic Technologies 3

Total Credits: 12

SECOND YEAR - Fall Semester
- CR 103 Ceramics III 3
- CR 109 Craft Business Practice 3

Total Credits: 9

TOTAL CREDITS: 33

Certificate Program
Clay College's credit and continuing education ceramics courses are popular among young and old students who take the courses during the day, in the evening and on weekends. Students can take ceramics courses with a career in mind or for personal enrichment. Both credit and non-credit students learn to mold and fire ceramics, and “throw pots” at RCSJ’s Clay College, located on High Street in the Millville Arts District. Residents and students of Clay College form distinctive pottery and sculpture by using various hand building techniques including pinch, coil slab and the pottery wheel.

Impressive Facility
Clay College is a spacious facility equipped with 15 pottery wheels, a glaze area and a kiln room housing four electric kilns. The gallery at the entrance showcases the work of students and regional artists.

Program Learning Outcomes
Upon Completion of this program, students should be able to:
• Demonstrate basic concepts of structure and construction techniques
• Recognize and demonstrate use of tools and materials associated with three-dimensional design.
• Analyze glaze and clay formulation, operate kilns and other studio equipment.
• Perform basic maintenance of a functioning ceramic studio.
• Design and write a business plan, resume, artist statement and bio.

Program Contact
Jacqueline Greenwell
jgreenwe@rcsj.edu
856-776-2381

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

The Communication and Theatre departments are collaborating to create a Certificate to offer training in the Entertainment Technology field. This unique program is designed to prepare individuals to work as skilled technicians, capable of functioning independently, or as part of a production team in the preparation and performance of theatrical/entertainment events. Students will have an opportunity to get real-world experience as they complete the required internship in this program. The sources of students for this program are RCSJ theatre students, communication, journalism, public relations and television production students. Also entertainment business and industry professionals from Philadelphia and New Jersey working in the field but looking for updated training or advancement in his/her career.

Program Learning Outcomes

Upon Completion of this program, students should be able to:

- Collaborate with others to produce a live stage performance or film/television production.
- Maintain, prepare and operate stage and studio lighting and sound equipment.
- Choose appropriate tools, techniques and materials for stage and studio design and creation.
- Prepare, perform and analyze acting for television skills including interview, drama and comedy techniques.

Program Contact

Deborah Bradshaw
dbartley@rcsj.edu
856-200-4595

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

**Fine Arts, A.F.A.**

**FIRST YEAR - Fall Semester**
- AR 110 Fundamentals of Drawing 3
- AR 115 Painting I 3
- CR 101 Ceramics I 3
- EN 101 English Composition I 3
- General Education Math or Science Elective 3-4

**Total Minimum Credits: 15-16**

**Spring Semester**
- AR 107 Art History I 3
- AR 113 Fundamentals of Drawing II 3
- AR 120 Printmaking I 3
- AR 200 Two Dimensional Design 3
- EN 102 English Composition II 3

**SECOND YEAR - Fall Semester**
- AR 108 Art History II 3
- AR 140 Sculpture I 3
- AR 213 Life Drawing 3
- AR 131 Digital Photography 3
- General Education Diversity Elective 3

**Total Minimum Credits: 15**

**Spring Semester**
- AR 202 Color Theory and Practice 3
- AR 205 3-Dimensional Design 3
- General Education Social Science Elective 3
- Program Elective* 3
- Program Elective* 3

**TOTAL MINIMUM CREDITS: 60**

*Program Electives
AR 103: Art Therapy 3
AR 215 Painting II 3
AR 231 Intermediate Digital Photography 3
CR 102 Ceramics II 3
CR 105 Sculptural Ceramics 3
CR 107 Clay Co-Op Exp Gallery 3

Program Learning Outcomes
Upon Completion of this program, students should be able to:
- Define the visual elements and design principles including the terms associated with each in written form.
- Utilize historical references and be able to locate and critically evaluate information and information sources in design and fine arts.
- Exhibit proficiency in drawing skills including linear perspective.
- Apply 2D and 3D terminology, techniques, and knowledge of various mediums.
- Create a portfolio that conforms to expectations of BA or BFA programs in art or design for successful transfer or employment.
COMMUNICATION AND CREATIVE & PERFORMING ARTS DIVISION

Fine Arts/Theatre/Acting, A.F.A.

**FIRST YEAR - Fall Semester**
- EN 101 English Composition I 3
- TH 101 Theatre Appreciation 3
- TH 111 Production and Performance I 1
- TH 120 Acting I 3
- General Education Math or Science Elective 3-4
- Program Elective* 3
  **Total Credits:** 16-17

**Spring Semester**
- EN 102 English Composition II 3
- TH 201 Theatre History 3
- TH 150 Stagecraft 3
- TH 212 Production and Performance II 1
- TH 220 Acting II 3
- Program Elective* 3
  **Total Credits:** 16

**SECOND YEAR - Fall Semester**
- SP 203 Effective Speech 3
- TH 213 Production and Performance III 1
- TH 221 Acting III 3
- General Education Social Science Elective 3
- Program Elective* 3
- Program Elective* 3
  **Total Credits:** 12

**Spring Semester**
- TH 222 Acting IV 3
- General Education Diversity Elective (MU 115 recommended) 3
- Program Elective* 3
- Program Elective* 3
  **Total Credits:** 12

**TOTAL MINIMUM CREDITS: 60**

*Program Electives*
- TH 104 Voice for the Actor I
- TH 105 Movement for the Actor I
- TH 204 Singing for the Actor I
- TH 207 Stage Makeup
- MU 146 Music of the Theatre
- TH 230 Readers Theatre
- EN 222 Drama
- TH 123 Directing
- TH 128 Acting for Television
- TH 208 Children’s Theatre
- TH 205 Movement for the Actor II
- TH 206 Theatre Dance
- TH 250 Independent Study

Associate in Fine Arts - Transfer

This program is designed so that Theatre majors gain experience in all areas of theatre production. The program is performance based and students in the program will complete foundation courses in theatre performance studies along with general education requirements. This combination of courses will allow them the ability to transfer to a four year program. This program is for students who are looking for a directed course of study that will prepare them for transfer to a BFA degree program in theatre or to enter the field as a professional.

Program Learning Outcomes

Upon Completion of this program, students should be able to:
- Recognize and distinguish the history and many diverse forms of dramatic art.
- Distinguish and synthesize the creative process as it applies to the dramatic arts.
- Participate in performances by acting, directing, or providing technical support.
- Demonstrate career and occupation competencies related to course work.
- Locate, retrieve and critically evaluate information and information sources.

Program Contact
Deborah Bradshaw
dbartley@rcsj.edu
856-200-4595

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

FIRST YEAR - Fall Semester
- AR 110 Fundamentals of Drawing 3
- CR 101 Ceramics I 3
- CS 101 Introduction to Microcomputers or CS 110 Information Technology 2-3
- EN 101 English Composition I 3
- General Education Mathematics Elective 3-4

Total Minimum Credits: 14-16

Spring Semester
- AR 107 Art History I 3
- CR 102 Ceramics II 3
- EN 102 English Composition II 3
- General Education History Elective 3
- General Education Humanities Elective 3

Total Minimum Credits: 15

SECOND YEAR - Fall Semester
- AR 108 Art History II 3
- CR 105 Sculptural Ceramics or CR 106 Ceramic Technologies 3
- General Education Diversity Elective 3
- General Education Science Elective 4
- General Education Social Science Elective 3

Total Minimum Credits: 16

Spring Semester
- AR 205 3-Dimensional Design 3
- SP 203 Effective Speech 3
- General Education History Elective 3
- General Education Math or Science Elective 3-4
- General Education Social Science Elective 3

Total Minimum Credits: 15-16

TOTAL MINIMUM CREDITS: 60

Program Learning Outcomes
Upon Completion of this program, students should be able to:
- Demonstrate basic concepts of structure and construction techniques.
- Recognize and demonstrate use of tools and materials associated with three-dimensional design.
- Analyze glaze and clay formulation, operate kilns and other studio equipment.
- Perform basic maintenance of a functioning ceramic studio.
- Utilize historical references and be able to locate and critically evaluate information and information sources in design and fine arts.

Program Contact
Jacqueline Greenwell
jgreenwe@rcsj.edu
856-776-2381

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
# Liberal Arts/Design/Fine Arts, A.A.

**FIRST YEAR - Fall Semester**
- AR 110 Fundamentals of Drawing 3
- CS 101 Introduction to Microcomputers or CS 110 Information Technology 2-3
- EN 101 English Composition I 3
- General Education Humanities Elective 3
- General Education Math Elective 3-4
  **Total:** 14-16

**Spring Semester**
- AR 113 Fundamentals of Drawing I 3
- EN 102 English Composition II 3
- AR 107 Art History I 3
- General Education History Elective 3
- General Education Science Elective 4
  **Total:** 16

**SECOND YEAR - Fall Semester**
- SP 203 Effective Speech 3
- General Education Humanities Elective 3
- General Education Math or Science Elective 3-4
- General Education Social Science Elective 3
- General Education Diversity Elective 3
  **Total:** 15-16

**Spring Semester**
- AR 200 Two-Dimensional Design 3
- General Education Social Science Elective 3
- General Education History Elective 3
- General Education Humanities Elective 3
- Program Elective* 3
  **Total:** 15

*Program Electives
- AR 115 Painting I 3
- AR 140 Sculpture I 3
- AR 120 Printmaking 3
- CG 101 Intro to Computer Graphics 3
- CG 114 Digital Photography 3
- CR 101 Ceramics I 3

**TOTAL MINIMUM CREDITS: 60**

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**Associate in Arts - Transfer**

This program enables students to gain skills and build the portfolios they will need to pursue a degree at a four-year institution and a career in the visual arts. The program offers a strong foundation for gaining insights and fluency of artistic expression. The curriculum lends itself to portfolio building and the exploration of various media within the artistic fields, including fine arts, fine crafts, art history or applied arts.

**Program Learning Outcomes**

Upon Completion of this program, students should be able to:

- Define the visual elements and design principles including the terms associated with each in written form.
- Utilize historical references and be able to locate and critically evaluate information and information sources in design and fine arts.
- Apply 2D and 3D terminology, techniques, and knowledge of various mediums.
- Exhibit proficiency in drawing skills including linear perspective.
- Create a portfolio that conforms to expectations of BA or BFA programs in art or design for successful transfer or employment.

**Program Contact**

Jacqueline Greenwell
jgreenwe@rcsj.edu
856-776-2381

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

**[COMM.LA.AA; CIP Code 24.0101]**

**Associate in Arts - Transfer**
Prepares students to transfer to four-year colleges and universities to major in fields such as communications, speech, journalism, broadcasting, television, radio, writing, teaching and law.

The student newspaper and the college's programming on local cable TV and channel 9, provide hands-on opportunities to develop skills and explore careers.

**Program Learning Outcomes**

Students who have completed the program will be able to:
- Discuss mass communications and the role of the media.
- Communicate effectively in a variety of media.
- Demonstrate critical thinking and problem-solving skills in the areas of communications.
- Locate, retrieve and critically evaluate information and information sources.

**Program Contact**
Valerie Gouse
vgouse@rcsj.edu
856-200-4593

**FIRST YEAR - Fall Semester**
- CO 102 Introduction to Communication  
- CS 101 Introduction to Microcomputers or CS 110 Information Technology  
- EN 101 English Composition I  
- CG 106 Design, Type & Color or CG 115 Foundations of Computer Graphic Arts  
- General Education Mathematics Elective  

**Spring Semester**
- CO 101 Mass Media Influence  
- CO 104 Writing for Electronic Media  
- EN 102 English Composition II  
- SP 203 Effective Speech  
- General Education Social Science Elective  

**SECOND YEAR - Fall Semester**
- EN 103 Technical Writing  
- General Education Humanities Elective (Foreign Lang. Recommended)  
- General Education Science Elective  
- General Education Social Science Elective  
- Business Elective*  

**Spring Semester**
- EN 204 Business Communication  
- General Education Diversity Elective  
- General Education Humanities Elective  
- General Education History Elective  
- General Education Social Science Elective  

**TOTAL MINIMUM CREDITS: 60**

*Students can take any 100 or 200 level business course that does not require a business pre-requisite*
Division of Education & Humanities

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

RCSJ.edu/Education

Isabella Mevoli, Inclusive Education

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

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

Find Your Opportunity
RCSJ’s Division of Education & Humanities provides access to one-of-a-kind degree and certificate programs, internship experiences and personalized advisement to prepare students for meaningful careers in education and the humanities. Whether you attend classes on the Cumberland campus, the Gloucester campus or online, you are guaranteed a quality education at one of the lowest tuition rates in New Jersey.
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.

EDUCATION AND HUMANITIES DIVISION

Early Childhood/Preschool Education, A.A.S.

FIRST YEAR - Fall Semester
- ED 106 Principles of Early Childhood Education 3
- EN 101 English Composition I 3
- PY 115 Child Development and Learning 3
- SO 201 Introductory Sociology 3
- CS 110 Information Technology 2

14

Spring Semester
- ED 105 Introduction to Special Education 3
- ED 203 Language Dev. and Emergent Literacy 3
- ED 209 Child Health, Safety and Nutrition 3
- EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech 3
- PY 101 General Psychology 3

15

SECOND YEAR - Fall Semester
- ED 201 Math, Science and Technology in Early Childhood 3
- ED 205 Preschool Classroom Management 3
- MA 109 Principles of Mathematics or MA 115 Mathematical Structures and Algorithms 3
- PY 102 Child Psychology 3
- Early Childhood Education Elective* 3

15

Spring Semester
- ED 212 Books and Storytelling in Early Childhood Education 3
- ED 290 The Early Childhood Professional 3
- PI 110 Principles of Science 4
- General Education Diversity Elective 3
- General Education Humanities Elective 3

16

TOTAL CREDITS: 60

*Early Childhood Education Electives
- ED 103 Infant/Toddler Curriculum
- ED 110 Infant/Toddler Mental Health
- ED 204 Creative Learning Experiences in Early Childhood Education

Associate in Applied Science - Career
The rapidly growing preschool field of private and public day care, Head Start, nursery and public preschool centers has created numerous positions in a variety of settings for graduates of this program. Graduates are employed as group teachers in private child care facilities, paraprofessionals in public schools, and as directors of private preschools and home day cares. Others move into bachelor’s and master’s degree programs to become fully certified early childhood teachers.

Program Learning Outcomes
Upon Completion of this program, students should be able to:
- Distinguish and apply the well-known and influential educational theories to practices.
- Design a developmentally appropriate classroom environment to meet the needs of young children.
- Develop observation skills and apply those skills to a case study
- Develop language and literacy skill in young children.
- Use the arts, sciences, and math in planning an integrated activity to broaden the child’s knowledge base, solve problems and to help children relate to others.
- Locate, retrieve and critically evaluate information and information sources related to the profession.
- Evaluate and reflect upon their professional growth and development by creating a professional portfolio.
Early Childhood Education, CERT

**FIRST YEAR - Fall Semester**
- CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer 3
- ED 106 Principles of Early Childhood Education 3
- EN 101 English Composition I 3
- PY 115 Child Development and Learning 3
- SO 201 Introductory Sociology 3

**TOTAL CREDITS: 15**

**Spring Semester**
- ED 203 Language Dev. and Emergent Literacy 3
- ED 204 Creative Learning Experiences in Early Childhood Ed. 3
- ED 209 Child Health, Safety and Nutrition 3
- EN 102 English Composition II or EN 103 Technical Writing 3
- PY 101 General Psychology 3

**TOTAL CREDITS: 15**

**ECE.AC; CIP Code 13.0101**

**Certificate Program**

Designed to allow students to explore the field of Early Childhood Education before making a commitment to obtaining the A.A.S degree. All courses offered in the Academic Certificate may be applied to the A.A.S degree in Early Childhood Education.

**Program Learning Outcomes**

Upon Completion of this program, students should be able to:
- Distinguish and apply the well-known and influential educational theories to practices
- Develop observation skills and apply those skills to a case study
- Develop language and literacy skill in young children
- Locate, retrieve and critically evaluate information and information sources

This certificate stacks into the Early Childhood/Preschool Education, A.A.S. program.

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

[EC.E.I.NF.TOD.CC; CIP Code 13.0101]

Certificate of Achievement

This career certificate is intended for use by professionals and paraprofessionals working in the field of infant/toddler care in all settings, including center-based care, family child care programs, and in community based programs that support infant, toddlers and their families. By focusing on infant/toddler mental health and social/emotional development as well as adding an intensive supervised field work experience, candidates will increase knowledge and skills in caring for children birth through 36 months of age.

Program Learning Outcomes

Upon Completion of this program, students should be able to:

• Demonstrate competence in building reciprocal and responsive relationships with children and families.
• Understand the core principles of child development and recognize that each area of development; social, emotional, physical, cognitive, and communication depends upon and is influenced by the other.
• Recognize that a quality curriculum is the foundation of a quality program and inclusive of children of all families, culture and abilities.
• Analyze the infant/toddler environment to ensure that it meets the need to be family-centered and thoughtfully designed to meet the cultural, social, emotional, physical and cognitive need of child.
• Demonstrate support of families by being aware of community resources and by collaborating with other professionals.
• Knows and adheres to licensing and regulatory requirements.

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

- ED 106: Principles of Early Childhood Education 3
- PY 115: Child Development and Learning 3
- ED 103: Infant/Toddler Curriculum and Development 3
- ED 110: Infant/Toddler Mental Health 3
- ED 219: Infant Toddler Field Experience 3

TOTAL CREDITS: 15
Liberal Arts, A.A.

FIRST YEAR - Fall Semester
- CS 101 Introduction to Microcomputers or CS 110 Information Technology 2-3
- EN 101 English Composition I 3
- General Education History Elective 3
- General Education Mathematics Elective 3-4
- General Education Humanities Elective 3

14-16

Spring Semester
- EN 102 English Composition II 3
- SP 203 Effective Speech 3
- General Education Science Elective 4
- General Education Social Science Elective 3
- Program Elective* 3

16

SECOND YEAR - Fall Semester
- General Education Humanities Elective 3
- General Education Mathematics or Science Elective 3-4
- General Education Social Science Elective 3
- Program Elective* 3
- Program Elective* 3

15-16

Spring Semester
- General Education Diversity Elective 3
- General Education History Elective 3
- General Education Humanities Elective 3
- Program Elective* 3
- Program Elective* 3

15

TOTAL MINIMUM CREDITS: 60

*Program Electives
Students will select a combination of five 5 program courses from across academic divisions A&H, STEM, and BESS. Nine of the 15 Credits must be in one division. Students who elect a foreign language should select 6 Credits in the same language.
**Liberal Arts/Art Education, A.A.**

**Associate in Arts - Transfer**

For students who want to transfer into a bachelor’s degree program in art education. The option offers a strong foundation in both branches. Students who wish to pursue a degree in art education will learn to share their art expertise with children and help them develop artistic talent and critical thinking skills.

**Program Learning Outcomes**

Upon Completion of this program, students should be able to:

- Exhibit proficiency in drawing skills including linear perspective.
- Create a portfolio that conforms to the basic requirements to transfer successfully into an art education BA program.
- Use a variety of instructional strategies to encourage development of critical thinking, problem solving and performance skills.
- Evaluate how children learn and develop and analyze and reflect upon observed learning opportunities that support their intellectual, social and personal development.
- Locate, retrieve, and critically evaluate information and information sources.

**FIRST YEAR - Fall Semester**

- AR 110 Fundamentals of Drawing 3
- CS 101 Introduction to Microcomputers or CS 110 Information Technology 2-3
- ED 101 Historical Foundations of Education 3
- EN 101 English Composition I 3
- MA 109 Principles of Math or MA 115 Mathematical Structures and Algorithms 3

**Spring Semester**

- AR 107 Art History I 3
- CR 101 Ceramics I 3
- EN 102 English Composition II 3
- PY 101 General Psychology 3
- General Education History Elective 3

**SECOND YEAR - Fall Semester**

- PY 102 Child Psychology 3
- PY 214 Human Exceptionality or Program Elective* 3
- General Education Diversity Elective 3
- General Education Humanities Elective 3
- General Education Science Elective 4

**Spring Semester**

- PY 213 Educational Psychology 3
- SP 203 Effective Speech 3
- General Education History Elective 3
- General Education Humanities Elective 3
- General Education Math or Science Elective 3-4

**TOTAL MINIMUM CREDITS: 60**

*Program Electives

AR 115 Painting I 3
AR 140 Sculpture I 3
CR 102 Ceramics II 3
PY 204 Psychology of Adolescence 3
Liberal Arts/ Elementary/ Secondary Education, A.A.

**FIRST YEAR - Fall Semester**
- CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer 3
- ED 101 Historical Foundations of Education 3
- EN 101 English Composition I 3
- PY 101 General Psychology 3
- Freshman Seminar 1

**Spring Semester**
- EN 102 English Composition II 3
- MA 109 Principles of Mathematics 3
- PY 102 Child Psychology 3
- PY 213 Educational Psychology 3
- PI 110 Principles of Science I 4

**SECOND YEAR - Fall Semester**
- HI 201 US History I or HI 202 US History II 3
- SP 203 Effective Speech 3
- General Education Literature Elective 3
- BI 108 Human Biology 4
- GE 102 Cultural Geography 3

**Spring Semester**
- AR 101 Art Appreciation 3
- HI 101 Western Civilization I or HI 102 Western Civilization II 3
- MA 115 Mathematical Structures and Algorithms (Elementary Majors) or PY 204 Psychology of Adolescence (Middle-Secondary Majors) 3
- PY 214 Human Exceptionality 3
- General Education Humanities Elective 3

**TOTAL CREDITS: 60**

Elementary Education Program (K-8) Requirements (15 credits)
- ED 101 Historical Foundations of Education 3
- PY 102 Child Psychology 3
- PY 213 Educational Psychology 3
- PY 214 Human Exceptionality 3
- MA 115 Mathematical Structures & Algorithm 3

*Please note: If student chooses to attend Fairleigh Dickinson University at Cumberland, the program electives would be two Foreign Language courses.

Secondary Education Program Requirements (15 credits)
- ED 101 Historical Foundations of Education 3
- PY 102 Child Psychology 3
- PY 204 Psychology of Adolescence 3
- PY 213 Educational Psychology 3
- PY 214 Human Exceptionality 3
Liberal Arts/History, A.A.

FIRST YEAR - Fall Semester
- EN 101 English Composition I 3
- PS 201 American Federal Government 3
- HI 201 United States History I 3
- General Education Mathematics Elective 3-4
- General Education Humanities Elective 3 15-16

Spring Semester
- EN 102 English Composition II 3
- GE 101 World Regional Geography 3
- HI 202 United States History II 3
- General Education Mathematics Elective 3-4
- General Education Social Science Elective 3
- FS 101 Freshman Seminar or BU 123 Personal & Professional Branding or 1-3 credits of HPE 16-19

SECOND YEAR - Fall Semester
- General Education Science Elective 4
- General Education Humanities Elective 3
- History Program Elective 3
- General Education Social Science Elective 3
- Program Option Elective* 3 16

Spring Semester
- SP 203 Effective Speech 3
- General Education Science Elective 4
- General Education Humanities Elective 3
- History Program Elective 3 13

TOTAL MINIMUM CREDITS: 60

*Program Option Electives
- HI 102 Western Civilization II 3
- PS 101 Introduction to Political Science 3

History Electives
- HI 101 Western Civilization I 3
- HI 103 World History and Culture I 3
- HI 104 World History and Culture II 3
- HI 113 Latin American History 3
- HI 116 Holocaust 3
- HI 208 African American History 3

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

The Liberal Arts/Literature option prepares students for transfer to a four-year institution majoring in English, writing, or literature. Students who complete this option develop excellent reading, writing, analysis and research skills.

**Program Learning Outcomes**

Upon completion of this program, students should be able to:

- Identify and describe characteristics of literary forms and genres.
- Interpret, analyze, and evaluate works of literature.
- Analyze social, political and historical contexts of literature.
- Locate, retrieve, evaluate and use scholarly literary criticism.

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**Liberal Arts/Literature, A.A.**

**FIRST YEAR - Fall Semester**

- CS 101 Introduction to Microcomputers or CS 110 Information Technology 2-3
- EN 101 English Composition I 3
- General Education History Elective 3
- General Education Mathematics Elective 3-4
- General Education Humanities Elective (Foreign Language recommended for 6 Credits) 3

**Spring Semester**

- EN 102 English Composition II 3
- SP 203 Effective Speech 3
- General Education Humanities Elective (Foreign Language recommended for 6 Credits) 3
- General Education Science Elective 4
- General Education Social Science Elective 3

**SECOND YEAR - Fall Semester**

- General Education Math/Science Elective 3-4
- General Education Humanities Elective 3
- Literature Elective* 3
- Literature Elective* 3
- Program Elective** 3

**Spring Semester**

- General Education Social Science Elective 3
- General Education Diversity Elective 3
- General Education History Elective 3
- General Education Literature Elective 3
- Program Elective** 3

**TOTAL MINIMUM CREDITS: 60**

**Literature Electives**

- EN 201 British Literature I 3
- EN 202 British Literature II 3
- EN 205 Masterpieces of Western Literature I 3
- EN 206 Masterpieces of Western Literature II 3
- EN 209 American Literature I 3
- EN 210 American Literature II 3

**Program Electives**

- HI 103 World History and Culture I 3
- HI 104 World History and Culture II 3
- PH 101 Introduction to Philosophy 3
- RL 101 Perspectives on Religion 3
- RL 102 World Religions 3
- TH 201 Theatre History 3

---

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

[SPAN.LA.AA; CIP Code 24.0101]

Associate in Arts - Transfer

The Liberal Arts/Spanish option prepares students for transfer to a four-year institution majoring in Spanish. Students who complete this option develop excellent reading, writing, listening and speaking competencies in Spanish.

As the number of Spanish speakers increases in the tri-state area, Spanish language proficiency is becoming an essential part of many occupations. The study of the Spanish language will prepare students for careers in interpreting, foreign service, business, law, government, social service, and education.

Program Learning Outcomes

Upon Completion of this program, students should be able to:

• Speak and comprehend Spanish with proficiency.
• Read and write Spanish with proficiency.
• Demonstrate an understanding and appreciation of the literature and culture of Spanish-speaking peoples.
• Locate, retrieve and critically evaluate information and information sources.

FIRST YEAR - Fall Semester

- CS 101 Introduction to Microcomputers or CS 110 Information Technology 2-3
- EN 101 English Composition I 3
- LS 101 Elementary Spanish I 3
- General Education Mathematics Elective 3-4
- General Education History Elective 3

14/16

Spring Semester

- EN 102 English Composition II 3
- LS 102 Elementary Spanish II 3
- SP 203 Effective Speech 3
- General Education Social Science Elective 3
- General Education Science Elective 4

16

SECOND YEAR - Fall Semester

- EN 225 Introduction to Latino Literature 3
- LS 104 Conversational Spanish I 3
- LS 201 Intermediate Spanish I 3
- General Education Humanities Elective 3
- General Education Social Science Elective 3

15

Spring Semester

- HI 113 Latin American History 3
- LS 202 Intermediate Spanish II 3
- General Education Diversity Elective 3
- General Education Humanities Elective 3
- General Education Mathematics or Science Elective 3-4

15-16

TOTAL MINIMUM CREDITS: 60

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

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

RCSJ.edu/Nursing

Shane McDonald, Nursing

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

Find Your Program

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

Find Your Opportunity

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

Biological Science/Health Science, A.S.

[BIOMED.HC.AS; CIP Code 26.0102]

Associate in Science (A.S.) — Transfer

The Health Science option under the A.S. in Biological Science is designed to accommodate those students wishing to pursue a pathway in healthcare such as Physical Therapy, Occupation Therapy, Athletic Training, Exercise Science, Chiropractic, Medical Lab Technician and a variety of healthcare professions.

Program Learning Outcomes

Upon Completion of this program, students should be able to:

• Analyze and interpret scientific data.
• Write and verbally communicate scientific principles and concepts using terminology appropriate to the discipline of study.
• Organize and analyze data to solve problems.
• Locate, interpret, critically evaluate and make informed conclusions about scientific literature.
• Identify career options in the healthcare industry.

First Year - Fall Semester

- BI 101   General Biology I  
- PY 101   General Psychology  
- HS 101   Elements of Healthcare Careers  
- EN 101   English Composition I  
- HS 103   Medical Terminology  

15

Spring Semester

- BI 106   Anatomy and Physiology I  
- EN 102   English Composition II  
- PY 207   Human Growth and Development  
- HS 115   Basic Nutrition  
- HS 140   Legal & Ethical Issues in Healthcare  

16

Second Year - Spring Semester

- BI 107   Anatomy and Physiology II  
- CH 101   General Chemistry I  
- Program Electives 3-4  
- Program Electives 3-4  

14-16

Spring Semester

- Humanities General Education Elective  
- SO 201   Introduction to Sociology  
- Mathematics General Education Elective 3-4  
- Program Electives 3-4  
- Program Electives 3-4  

15-17

TOTAL MINIMUM CREDITS: 60

Health Track 13/14 cr
- BI 203   Microbiology 4  
- MA 205   Statistics 3  
- CS Elective 3-4  
- BI 210   Pathology 3  

Exercise Science Track 14/15 cr
- BI 102   General Biology II 4  
- CH 102   General Chemistry II 4  
- BI 216   Biomechanics 3  
- PI 123   Fundamentals of Physics I or 4  
- HS 145   Exercise Science 3  

PLA Track 12 cr
12 credits from credential evaluation. If less than 12, choose from other tracks according to needs of transfer program. Transferring students are encouraged to contact receiving institution about transfer of the credential. ACE evaluation may be required.

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

FIRST YEAR - Fall Semester
- BI 101 General Biology I or CH 101 General Chemistry I 4
- EN 101 English Composition I 3
- PY 101 General Psychology 3
- HS 115 Basic Nutrition 3
- SO 201 Into to Sociology 3

16

Spring Semester
- BI 106 Anatomy and Physiology I 4
- HS 101 Elements of Healthcare Careers 3
- PY 207 Human Growth and Development 3
- Healthcare Credential Evaluation* 4

14

TOTAL CREDITS: 30

*If less than 4 credits are awarded for the healthcare credential evaluation, take HS 140 or HS 103 to meet the 4 credit minimum.

This certificate stacks into the Biological Science/Health Science, A.S. program.

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

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

FIRST YEAR - Fall Semester
- EN 101 English Composition I 3
- BI 106 Anatomy and Physiology I 4
- PY 101 General Psychology 3
- NURS 110 Nursing I 6
- NURS 111 Nursing I Lab 1
  17

Spring Semester
- EN 102 English Composition II 3
- BI 107 Anatomy and Physiology II 4
- NURS 120 Nursing II 9
- NURS 121 Nursing II Lab 1
  17

SECOND YEAR - Fall Semester
- BI 203 Microbiology 4
- NURS 230 Nursing III 8
- NURS 231 Nursing Lab III 1
  13

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

TOTAL CREDITS: 60

Admissions Requirements continue on next page.

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.
Nursing, A.A.S. 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 7 percent from 2019 to 2029, faster than the average for all occupations. Growth will occur for a number of reasons, including an increased emphasis on preventive care; increasing rates of chronic conditions, such as diabetes and obesity; and demand for healthcare services from the baby-boom population, as this group leads longer and more active lives.” (https://www.bls.gov/ooh/healthcare/registered-nurses.htm)

Highlights

Since 2000, the NCLEX-RN pass rate has been greater than 90 percent.
After completing the Nursing, A.A.S., students may choose to continue with the bachelor’s degree pathway at RCSJ.

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

**Nursing 3+1**

<table>
<thead>
<tr>
<th>THIRD YEAR — Fall Semester</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Fine Arts Elective</td>
<td>3</td>
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<tr>
<td>SP 203 Effective Speech</td>
<td>3</td>
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<tr>
<td>NU 303 Comprehensive Health Assessment</td>
<td>3</td>
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<tr>
<td>Broad-based Literature</td>
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<tr>
<td>General Elective Option</td>
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<td><strong>Total</strong></td>
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<th>Spring Semester</th>
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<tbody>
<tr>
<td>NU 305 Nursing Informatics</td>
<td>3</td>
</tr>
<tr>
<td>NU 308 Topics in Healthcare Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/History/Language</td>
<td>3</td>
</tr>
<tr>
<td>MA 205 Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>Free Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

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

**Bachelor’s**

Registered Nurse, Health Information Specialist, Community Health Worker

**Master’s**

Midwife, Healthcare Social Worker, Nurse Practitioner

Questions?

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

RCSJ.edu/3plus1
Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Nursing LPN-RN, A.A.S. 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 7 percent from 2019 to 2029, faster than the average for all occupations. Growth will occur for a number of reasons, including an increased emphasis on preventive care; increasing rates of chronic conditions, such as diabetes and obesity; and demand for healthcare services from the baby-boom population, as this group leads longer and more active lives." (https://www.bls.gov/ooh/healthcare/registered-nurses.htm)

Highlights
Since 2000, the NCLEX-RN pass rate has been greater than 90 percent.
Practical Nursing, AC

This program has selective admissions. Please see Allied Health Activation page of the college's website for details.

FIRST YEAR - Fall Semester
- BI 106 Anatomy & Physiology 4
- EN 101 English Composition I 3
- PN 101 Foundations of Practical Nursing Practice 7

Spring Semester
- HS 115 Basic Nutrition 3
- PN 102 Medical Surgical Practical Nursing 7
- PY 101 General Psychology 3

Year 1, Summer Semester
- PN 103 Advanced Concepts in Practical Nursing 2

Year 1, Summer Semester
- PN 104 Family-Centered Nursing Practice 5

TOTAL CREDITS: 34

*For progression in the program, a passing grade of 95 is needed on the medical dosage calculation exam given in all four core courses (PN 101, PN 102, PN 103, PN 104).

Program Learning Outcomes

At the completion of this program of study, the student will demonstrate:
- Clinical competence at a novice graduate nurse level on the clinical evaluation tool and the comprehensive examination.
- Application of critical thinking principles using the nursing process to attain an optimal level of client functioning in all nursing courses.
- Effective collaboration with the Registered Nurse in the assessment, planning, implementation and evaluation of client care.
- Effective communication with the client, significant others, healthcare providers, and community agencies to provide holistic care.
- Participation in educational opportunities to foster competence in evidence-based nursing practice.
- Technology use for research, information processing and communication using the correct use of information literacy.

Academic Certificate Program

The Academic Certificate program in Practical Nursing is designed for students who plan to become Licensed Practical Nurses. This program has selective admission criteria.

Individuals who are at college level and who are eligible to take English 101, and Anatomy and Physiology I, may consider this Practical Nursing program. The Practical Nursing Program can be completed in one calendar year. Graduates are awarded an Academic Certificate in Practical Nursing.

Cumberland's Practical Nursing Program is accredited by the New Jersey Board of Nursing, 124 Halsey Street, Newark, NJ 07102, 1-973-504-6430.

Program Learning Outcomes Upon Completion of the program, graduates qualify to take the National Council of Licensure Examination for licensure as a Practical Nurse.
Radiography, A.A.S.

This program has selective admissions. Please see Allied Health Activation page of the college's website for details.

FIRST YEAR - Fall Semester
- BI 106 Anatomy and Physiology I 4
- EN 101 English Composition I 3
- RT 101 Introduction to Radiography Science 3
- RT 102 Radiographic Procedures I 3
- RT 103 Clinical Practicum and Image Evaluation I 2
- RT 104 Radiographic Exposure I 2

Spring Semester
- BI 107 Anatomy Physiology II 4
- CS 101 Introduction to Microcomputers or Computer Science Elective 3
- RT 106 Radiographic Exposure II 2
- RT 107 Radiographic Procedures II 3
- RT 110 Clinical Practicum and Image Evaluation II 2
- RT 121 Radiation Protection & Biology 3

Summer Semester
- RT 111 Clinical Practicum and Image Evaluation III 2
- RT 200 Clinical Practicum and Image Evaluation IV 2

SECOND YEAR - Fall Semester
- EN 102 English Composition II or EN 103 Technical Writing 3
- PY 101 General Psychology 3
- RT 201 Radiographic Procedures III 3
- RT 202 Clinical Practicum and Image Evaluation V 3
- RT 220 Equipment Operation & Maintenance I 2
- General Education Humanities Elective 3

Spring Semester
- RT 205 Radiographic Procedures IV 3
- RT 206 Clinical Practicum and Image Evaluation VI 3
- RT 221 Equipment Operation & Maintenance II 2
- SO 201 Introduction to Sociology 3
- General Education Mathematics Elective (Excluding MA 109) 3-4

TOTAL MINIMUM CREDITS: 69
Division of STEM
(Science, Technology, Engineering and Mathematics)

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

RCSJ.edu/STEM

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

Find Your Opportunity
RCSJ’s Division of STEM provides access to one-of-a-kind degree and certificate programs, research lab experiences, internship opportunities and personalized advisement to prepare students for success in the hard sciences. Whether you attend classes on the Cumberland campus, the Gloucester campus or online, you are guaranteed a quality education at one of the lowest tuition rates in New Jersey.
Agribusiness, A.A.S.

[AGRI.BUS.AAS; CIP Code 01.0101]

Associate in Applied Science - Career

The Agribusiness AAS degree incorporates hands-on learning with classroom instruction to provide a foundation of knowledge for career opportunities in the Agribusiness industry. This program includes specific skill training courses for immediate employment.

Program Learning Outcomes

Upon Completion of this program, students should be able to:

- Apply business principles towards operations in an Agribusiness
- Apply the principles of general services toward the operations of agricultural enterprises
- Develop a business plan for entrepreneurial Agribusiness
- Locate, retrieve and critically evaluate information and information sources

FIRST YEAR - Fall Semester

- AG 105 Introduction to Agricultural Science 3
- CH 101 General Chemistry I 4
- AG 209 Introduction to Soil Science 4
- General Education Diversity Elective 3

14

Spring Semester

- AC 103 Accounting Principles I 4
- BU 115 Introduction to Business 3
- CS 101 Introduction to Microcomputers or
  CS 102 Applications on the Microcomputer 3
- EN 101 English Composition I 3
- Program Elective* 3-4

16-17

SECOND YEAR - Fall Semester

- AG 106 Plant Science 4
- BI 101 General Biology I 4
- BU 207 Introduction to Marketing 3
- General Education Humanities Elective 3
- General Education Social Science Elective 3

17

Spring Semester

- AG 114 Internship 1
- BU 209 Business Law I 3
- Business (BU) Program Elective 3
- General Education Humanities Elective 3
- General Education Mathematics Elective 3

13

*Program Electives

- BU 106 Introduction to Management 3
- BU 117 Advertising 3
- BU 122 Introduction to Entrepreneurship 3
- BU 209 Small Business Management 3
- EN 204 Business Communication 3
- AG 203 Fruit Production (Spring) 3
- AG 206 Vegetable Production (Spring) 3
- AG 207 Agricultural Pest Control and Identification(Spring) 4
- AG 107 Plant Propagation(Spring) 3
- AG 108 Herbaceous Plants (Spring) 3
- OH 204 Greenhouse Management 4

TOTAL MINIMUM CREDITS: 60

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

**FIRST YEAR - Fall Semester**
- AG 105 Introduction to Agricultural Science  
  
- EN 101 English Composition I  
  
- CH 101 General Chemistry I  
  
- CS 110 Technology Literacy  
  
- General Education History Elective  
  
\[ \text{Total: 15 credits} \]

**Spring Semester**
- BI 101 General Biology I  
  
- EN 102 English Composition II  
  
- General Education Humanities Elective  
  
- MA 110 College Algebra  
  
- General Education Social Science Elective*  
  
\[ \text{Total: 16 credits} \]

**SECOND YEAR - Fall Semester**
- CH 102 General Chemistry II  
  
- AG 106 Plant Science  
  
- AG 209 Introduction to Soil Science  
  
- General Education Social Science Elective or  
  
- General Education Humanities Elective  
  
\[ \text{Total: 16 credits} \]

**Spring Semester**
- BI 102 General Biology II  
  
- EC 202 Microeconomics  
  
- AG Elective  
  
- General Education Diversity Elective  
  
\[ \text{Total: 14-15 credits} \]

**TOTAL MINIMUM CREDITS: 60**

*EC 202 Microcomputers recommended

**Program Learning Outcomes**

Upon Completion of this program, students should be able to:
- Apply the knowledge of anatomy and physiology of vascular plants
- Apply the principles of the general sciences towards the production and maintenance of a variety of plants
- Select an appropriate medium or site selection for a variety of agricultural products
- Locate, retrieve and critically evaluate information and information sources.

**Employment Opportunities**

Greenhouse production, nursery production, orchard and garden center management, or sales for retail and wholesale companies.

---

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

**SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS DIVISION**

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

**First Year - Fall Semester**
- EN 101 English Composition I  
- CS 111 Computer Science I  
- MA 121 Pre-Calculus Mathematics  
- Science Elective Pair I (first semester)  
  
  15

**Spring Semester**
- EN 102 English Composition II  
- MA 130 Calculus I  
- STEM Elective  
- Science Elective Pair I (second semester)  
- General Education Social Science or Humanities Elective  
  
  17-18

**Second Year - Fall Semester**
- Science Elective Pair II (first semester)  
- General Education Humanities Elective  
- 200 Level Science Elective  
- Free Elective  
  
  14-15

**Spring Semester**
- Science Elective Pair II (second semester)  
- 200 Level Science Elective  
- Free Elective  
- Free Elective  
- General Education Social Science Elective  
  
  14-18

**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:

<table>
<thead>
<tr>
<th>If you take this course</th>
<th>you must take this course to complete the pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 101</td>
<td>BI 102</td>
</tr>
<tr>
<td>BI 106</td>
<td>BI 107</td>
</tr>
<tr>
<td>CH 101</td>
<td>CH 102</td>
</tr>
<tr>
<td>CH 201</td>
<td>CH 202</td>
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<tr>
<td>PI 123</td>
<td>PI 124</td>
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<tr>
<td>PI 141</td>
<td>PI 142</td>
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</tbody>
</table>

2. One STEM Elective course must be selected from the following:
- CH 102, 201
- CS 112, 212, 216
- MA 140, 211, 212, 220, 210
- PI 123, 115, 141

3. 200 Level Science Elective Course must be selected from the following:
- BI 215, 203, 221
- CH 201, 202
- PI 141, 142

4. 200 Level STEM Elective Course must be selected from the following:
- BI 203, 215, 221
- CH 210, 202
- CS 212, 216
- PI 141, 142
- MA 210, 211, 212, 220
Biological Science, A.S.  
Biology Track

<table>
<thead>
<tr>
<th>FIRST YEAR - Fall Semester</th>
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<tbody>
<tr>
<td>BI 101 General Biology I</td>
<td>4</td>
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<tr>
<td>CH 101 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>EN 101 English Composition I</td>
<td>3</td>
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<tr>
<td>General Education History Elective</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>BI 102 General Biology II</td>
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</tr>
<tr>
<td>CH 102 General Chemistry II</td>
<td>4</td>
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<tr>
<td>EN 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MA 121 Pre-Calculus or MA 130 Calculus I</td>
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<tr>
<td><strong>Total</strong></td>
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<thead>
<tr>
<th>SECOND YEAR - Fall Semester</th>
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<tbody>
<tr>
<td>BI Program Elective (BI 201, 203, 209)</td>
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<tr>
<td>General Education Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>PY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>CH 201 Organic Chemistry I</td>
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<tr>
<td><strong>Total</strong></td>
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<table>
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<th>Spring Semester</th>
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<tbody>
<tr>
<td>BI 215 Ecology</td>
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<tr>
<td>CH 202 Organic Chemistry II</td>
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<tr>
<td>General Education Diversity Elective</td>
<td>3</td>
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<tr>
<td>General Education Humanities/ Social Science Elective</td>
<td>3</td>
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<tr>
<td>EN 103 Technical Writing</td>
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**TOTAL CREDITS: 60**

- BI 209 recommended for transfer to Rowan Biology BS
- BI 201 is recommended for transfer to Stockton Biology BS.
- MA 140 is recommended for transfer to Rutgers Biology BA or Environmental Studies BS

Associate in Science (A.S.) — Transfer

This program is designed for students planning to transfer to a four-year colleges and universities. Students will be prepare for entry into baccalaureate programs in the biological sciences that emphasize Biology, Chemistry, and Physics classes in the pathways of Medicine, Dentistry, Veterinary Medicine, Environmental Science an Biological/Biomedical Research. Students will develop high level critical thinking skills, scientific research skills, and effective communication.

Program Learning Outcomes

Upon Completion of this program, students should be able to:

- Analyze and interpret scientific data.
- Write and verbally communicate scientific principles and concepts using terminology appropriate to the discipline of study.
- Organize and analyze data to solve problems.
- Locate, interpret, critically evaluate and make informed conclusions about scientific literature.

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

FIRST YEAR - Fall Semester
- EN 101 English Composition I 3
- BI 101 General Biology I 4
- MA 130 Calculus I 4
- General Education Diversity Elective 3
- CH 101 General Chemistry I (Prog El) 4

15

Spring Semester
- EN 102 English Composition II 3
- MA 140 Calculus II 4
- General Education Humanities Elective 3
- EN 103 Technical Writing 3
- CH 102 General Chemistry II (Prog El) 4

17-18

SECOND YEAR - Fall Semester
- PI 141 General Physics I 4
- Program Elective 3-4
- General Education Humanities Elective 3
- CH 201 Organic Chemistry I (Prog El) 4

14-15

Spring Semester
- PI 142 General Physics II 4
- General Education Social Science Elective or General Education Humanities 3
- General Education Social Science Elective 3
- CH 202 Organic Chemistry II (Prog El) 4

14

TOTAL MINIMUM CREDITS: 60

Program Notes:
1. It is highly recommended that students planning to transfer as pre-med or to any health science related program take BI 102 (General Biology II) as their General Education elective in First Year Spring Semester.
2. Program elective courses include: MA 210 (Calculus III), MA 208 (Linear Algebra), CS 111 (Computer Science I), or CS 112 (Computer Science II).
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.

Are you ready to get started at RCSJ? Visit RCSJ.edu/Enroll and complete the interest form.
Chemistry, A.S.
Pre-Pharm. D. Option

FIRST YEAR - Fall Semester
- BI 101 General Biology I 4
- CH 101 General Chemistry I (Prog El) 4
- EN 101 English Composition I 3
- General Education Elective 3-4
- Free Elective 1-3
15-18

Spring Semester
- BI 102 General Biology II 3
- CH 102 General Chemistry II (Prog El) 4
- EN 102 English Composition II 4
- MA 130 Calculus I 4
- General Education Social Science Elective 3
14

SECOND YEAR - Fall Semester
- BI 106 Anatomy & Physiology I 4
- BI 203 Microbiology 4
- CH 201 Organic Chemistry I (Prog El) 4
- PI 123 Fundamentals of Physics I 4
16

Spring Semester
- BI 107 Anatomy and Physiology II 4
- CH 202 Organic Chemistry II 4
- PI 124 Fundamentals of Physics II 4
- General Education Social Science Elective or
  General Education Humanities Elective 3
- General Education Humanities Elective 3
18

TOTAL MINIMUM CREDITS: 63

Program Notes:
(1) Students planning to transfer to University of Maryland – Eastern Shore Pharmacy School must take as their general education elective a 3-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 SP 203 as a free elective.
(3) Students planning to transfer to University of Maryland – Eastern Shore Pharmacy School must take MA 205 in place of BI 102.
(4) Students planning to transfer to University of the Sciences in Philadelphia must take BI 106 and BI 107 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 EC 201 in place of PI 124.

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

[CHEM.PHARM.AS; CIP Code 40.0501] 
Associate in Science (A.S.) — Transfer
This option to our existing A.S. Chemistry program provides students with the basic course requirements to satisfy the first two years of a Doctor of Pharmacy (Pharm. D.) at a transfer professional institution. A minimum grade of C is usually needed for any course to transfer. In addition, students must successfully complete the PCAT, and any other transfer application requirements specified by the pharmacy school.

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

**FIRST YEAR - Fall Semester**
- CS 212 C++ Programming 4
- EN 101 English Composition I 3
- MA 130 Calculus I 4
- General Education Humanities Elective 3
- General Education Social Science Elective 3

**Spring Semester**
- CS 112 Computer Science II 4
- EN 102 English Composition II 3
- MA 140 Calculus II 4
- PI 141 General Physics I 4

**SECOND YEAR - Spring Semester**
- CS 203 Assembly Language and Computer Organization 4
- CS 216 Intermediate Java Programming 4
- MA___ Mathematics Elective MA 212 or MA 210* 4
- General Education Humanities/Social Science Elective 3

**Spring Semester**
- CS 232 Data Structures and Algorithms 4
- MA 211 Discrete Mathematics 3
- PI 142 General Physics II 4
- Free Elective 2-4

**TOTAL MINIMUM CREDITS: 60**

**Electives**
- Humanities Elective/Social Science Elective: 9 credits must be chosen from the approved list of General Education courses listed in this catalog.
- Mathematics Electives: MA 212 Linear Algebra or MA 210 Calculus III

*Students planning to transfer to Rowan University should take Linear Algebra MA 212 as their Mathematics elective.

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

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

FIRST YEAR - Fall Semester
- EN 101 English Composition I 3
- MA 110 College Algebra 3
- CS 101 Introduction to the Microcomputer 3
- CS 217 Introduction to Networks 4
- General Education Humanities Elective 3 16

Spring Semester
- EN 102 English Composition II 3
- MA205 Statistics I 3
- CS 229 Linux Installation and Configuration 3
- CS 242 Principles of Information Security 3
- General Education Elective 3 15

SECOND YEAR - Spring Semester
- CS 226 Network Infrastructure Implementation 3
- CS 240 Security + 3
- CS 241 Computer Forensics 3
- General Education Lab Science Elective 4
- General Education Social Science Elective 3 17

Spring Semester
- CS 212 Programming in C++ 4
- CS 265 Ethical Hacking 4
- IT 116 Workplace Ethics 1
- General Education Diversity Elective 3 12

TOTAL CREDITS: 60

Program Learning Outcomes

Upon Completion of this program, students should be able to:
- Identify security risks and summarize possible remedies.
- Use evidence-gathering protocols to locate, recover, and analyze digital evidence using forensics techniques and best practices for evidence recovery.
- Install and configure a Linux and/or Windows system and identify security risks and possible remedies.
- Apply for at least one industry-recognized certification, such as CEH Certified Ethical Hacker, CompTIA CSA (Cybersecurity Analyst), CompTIA A+ (Hardware repair).

This program prepares students to continue their education at a four-year college or university in fields such as Security Technician, Security Analyst, Security Administrator, and Security Auditor.
The 3+1 pathway enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor’s degree. The 3+1 pathway follows Rowan’s course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.

Cybersecurity 3+1

THIRD YEAR — Fall Semester
- CS 112 Computer Science II 4
- CS 232 Data Structures and Algorithms 4
- EN 201 British Literature 3
- SP 203 Effective Speech 3
  14

Spring Semester
- CS 337 Applied Database Technologies 3
- CS 216 Intermediate Java Programming 4
- MA 211 Discrete Math 4
- Elective 3
  14

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

Questions?

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

Bachelor
Security Technician, Security Analyst, Security Administrator, and Security, Auditor

Master
Computer and Information Research Scientist

RCSJ.edu/3plus1
Electrical Engineering Technology, A.A.S.

FIRST YEAR - Fall Semester
- EN 101 English Composition I 3
- EG 101 Introduction to Engineering I 2
- IT 107 Circuits I 3
- MA 121 Precalculus Mathematics 4
- PI 123 Fundamentals of Physics I 4
  16

Spring Semester
- EN 102 English Composition II 3
- MA 130 Calculus I 4
- EG 103 Introduction to Engineering Lab I 2
- PI 124 Fundamentals of Physics II 4
- CS 212 C++ Programming 4
  17

SECOND YEAR - Fall Semester
- EG 211 Introduction to Engineering II 1
- IT 205 Digital Electronics 3
- EC 201 Principles of Macroeconomics or
  EC 202 Principles of Macroeconomics 3
- IT 111 Electronics 4
  16

Spring Semester
- EG 212 Introduction to Engineering II Lab 1
- IT 241 Robotics and Motion Control 3
- IT 218 Programmable Logic Controllers 3
- SP 203 Effective Speech 3
- IT 244 Instrumentation & Measurement 3
  13

TOTAL CREDITS: 60

Program Learning Outcomes
Upon Completion of this program, students should be able to:
- Conduct tests, measurements and experiments to analyze and interpret results
- Apply algebra to analyze simple electrical circuits
- Employ standardized industrial equipment such as Programmable Logic Controllers
  and apply the principles of quality control
- Understand industrial and commercial robotics technology
- Design solutions for technical problems and assist with the engineering design of
  systems, components or processes related to electrical engineering
ENGINEERING, A.S.

FIRST YEAR - Fall Semester
- EG 101 Introduction to Engineering I 2
- PI 141 General Physics I 4
- EN 101 English Composition I 3
- MA 130 Calculus I 4
- General Education Humanities Elective 3
  16

Spring Semester
- EG 103 Introduction to Engineering I Lab 2
- PI 142 General Physics II 4
- EN 102 English Composition II 3
- MA 140 Calculus II 4
- General Education Social Science Elective or General Education Humanities Elective 3
- Program Elective* 3-4
  19-20

SECOND YEAR - Fall Semester
- EG 211 Introduction to Engineering II 1
- MA 210 Calculus III 4
- CH 101 General Chemistry I 4
- SP 203 Effective Speech 3
- Program Elective* 3-4
  15-16

Spring Semester
- CS 212 C++ Programming 4
- EG 212 Introduction to Engineering II Lab 1
- MA 220 Differential Equations 4
- MA 207 Linear Algebra for Engineers 1
- EC 201 Principles of Macroeconomics or
  EC 202 Principles of Microeconomics 3
- Program Elective* 3-4
  16-17

TOTAL MINIMUM CREDITS: 66

*PROGRAM ELECTIVES
Mechanical Engineering Track
- EG 201 Statics 3cr
- EG 202 Dynamics 3cr
- EG 213 Principles of Electrical Circuit Analysis 4cr or
  EG 203 Strength of Materials 3 cr

Chemical Engineering Track
- CH 102 Chemistry II 4cr
- CH 201 Organic Chemistry I 4cr
- CH 202 Organic Chemistry II 4cr

Electrical and Computer Engineering Track
- CS 216 Intermediate Java
- EG 121 Digital Electronics 3cr
- EG 122 Electronics for Engineers 3cr
- EG 213 Principles of Electrical Circuit Analysis 4cr

Civil Engineering Track:
- EG 203 Strength of Materials
- EG 102 Graphics 3cr
- EG 201 Statics 3cr
- EG 202 Dynamics 3cr

When You Graduate
AS programs are primarily designed for students who plan to transfer as juniors at four-year colleges and universities. RCSJ graduates have obtained bachelor’s degrees and beyond from every college in New Jersey and scores of colleges and universities throughout America. RCSJ has transfer agreements with a number of four-year colleges and universities.

This program prepares students for a career in the engineering field. Engineering uses the physical science and mathematics to design and develop products and systems. It uses advanced techniques to find solutions to technical problems and other complex issues.

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

Associate in Science (A.S.) – Transfer
This program is designed to meet the demands of an increasing number of people in the community who are interested in preparing for a career in the engineering field.
**Engineering Technology, CERT**

**FIRST YEAR - Fall Semester**
- EN 101 English Composition I 3
- IT 102 Fundamentals of Engineering Technological Design 3
- IT 105 Blueprint Reading & Sketching 2
- IT 107 Circuits I 3
- IT 112 Introduction to Engineering Technology Lab 2
- General Education Business or Computer Science Elective 3

**Spring Semester**
- EN 102 English Composition II or EN 103 Technical Writing 3
- IT 211 Advanced Engineering Technological Design 3
- MA 110 College Algebra 3
- Program Elective* 3
- Program Elective* 3

**TOTAL CREDITS: 31**

*Program Electives*
- EG 101 Introduction to Engineering 2
- EG 102 Graphics 2
- EG 103 Engineering Laboratory 1
- IT 111 Electronics 3
- IT 162 Quality Control 3
- IT 212 CAD III 3
- IT 218 Programmable Logic Controllers 3
- MA 205 Statistics 3
- PI 104 Energy, the Environment, and Society 3

*Business and Computer Science Electives*
- BU 106 Introduction to Management 3
- BU 115 Introduction to Business 3
- BU 209 Small Business Management 3
- CS 101 Introduction to Microcomputers or Computer Science elective 3

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**Certificate Program**

This program prepares students for careers in computer-aided drafting. Experts predict that varied technical occupations will be among the hot careers during the next decade. There will be a 30 percent increase in higher-skilled, better-paying occupations in the technical fields, according to the U.S. Department of Labor. With the increased emphasis on technology, 80 percent of these jobs will require more than a high school diploma, but less than a four-year degree. RCSJ works closely with business and industry leaders to keep its Engineering technologies curricula current.

**Program Learning Outcomes**
Upon Completion of this program, students should be able to:
- Apply algebra to analyze simple electrical circuits.
- Develop a technical drawing in free hand and computer aided format.
- Locate information resources and successfully retrieve data for employment.
- Successfully employ test and measurement equipment.

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

FIRST YEAR - Fall Semester
- EN101 English Composition I 3
- MA 110 College Algebra or MA 121 Pre-Calculus 3-4
- IT 218 Programmable Logic Controllers 3
- IT 107 Circuits I 3
- EG 101 Introduction to Engineering 2
14-15

Spring Semester
- EN102 English Composition II or EN103 Technical Writing 3
- EG 103 Introduction to Engineering Laboratory 2
- IT 205 Digital Electronics 3
- Program Elective* 3-4
- Program Elective* 4
15-16

TOTAL MINIMUM CREDITS: 30

*Program Electives
CS 111 Computer Science I 4
MA 120 Trigonometry 3
PI 104 Energy, the Environment and Society 3

Certificate Program
This program prepares students for employment in a wide range of businesses and industries.

Experts predict that varied technical occupations will be among the hot careers during the next decade. There will be a 30 percent increase in higher-skilled, better-paying occupations in the technical fields, according to the U.S. Department of Labor. With the increased emphasis on technology, 80 percent of these jobs will require more than a high school diploma, but less than a four-year degree.

RCSJ works closely with business and industry leaders to keep its Engineering technologies curricula current.

Program Learning Outcomes
Upon Completion of this program, students should be able to:
- Successfully employ test and measurement equipment.
- Locate information resources and successfully retrieve data for employment.
- Apply algebra to analyze simple electrical circuits.
- Employ standardized industrial equipment such as PLC and be capable to apply the principles of quality control.

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

FIRST YEAR - Fall Semester

- EG 101 Introduction to Engineering 2
- IT 107 Circuits I 4
- IT 205 Digital Electronics 3
- IT 218 Programmable Logic Controllers 3
- MA 110 College Algebra or
  MA 121 Pre-Calculus 3-4
- Program Elective 1-4

TOTAL MINIMUM CREDITS: 16

This certificate of achievement stacks into the Electrical Engineering Technology, A.A.S. program when you take MA 121.

Certificate of Achievement

This program focuses on the basics of electronics. Cumberland works closely with business and industry leaders to keep its Engineering technologies curricula current.

Program Learning Outcomes

Upon completion of this program, students should be able to:

- Successfully employ test and measurement equipment.
- Apply algebra to analyze simple electrical circuits.
- Employ standardized industrial equipment such as PLC and be capable to apply the principles of quality control.

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

FIRST YEAR - Fall Semester
- EN 101 English Composition I 3
- BI 101 General Biology I 4
- MA 121 Pre-Calculus or MA 130 Calculus 1¹ 4
- BI 122 Environmental Science 4

Total: 15

Spring Semester
- EN 102 English Composition II 3
- BI 102 General Biology II 4
- MA 205 Statistics 3
- GL 101 Physical Geology 4

Total: 14

SECOND YEAR - Fall Semester
- SP 203 Effective Speech 3
- BI 215 Ecology 4
- GL 115 Introduction to Geographic Information Systems 3
- ___ ____ Program Elective² 4

Total: 16

Spring Semester
- BI 209 Research Methods & Data Analysis 4
- ___ ____ Program Elective 4
- ___ ____ Humanities General Education Elective 3
- SO 201 Introductory Sociology 3
- EC 201 Principles of Economics I (Macro) 3

Total: 17

TOTAL CREDITS: 60

Program Elective Bank Advising Recommendations:
- Students planning to transfer to Rowan University for either a BA or BS in Environmental Science should take CH-101 AND CH-102.
- Students planning to transfer to Stockton University for a BS in Environmental Science should take CH-101 AND CH-102.
- Students planning to transfer to Stockton University for a BA in Environmental Science should take CH-101 AND CH-102 OR PI-141 or PI-142.
- Students planning to transfer to other BS or BA Environmental Science programs are encouraged to meet with their advisor at RCSJ or their transfer school to select their program elective courses.
- If a student wants to transfer to a BS program in Environmental Science, but places into MA-121, they should take MA-121 AND PI-141.

¹ Students planning to transfer to a BS program in Environmental Science should take MA-130. If a student wants to transfer to a BS program, but tests into MA-121, see the program elective bank advising recommendations below. Students planning to transfer to a BA program in Environmental Science can take either MA-121 OR MA-130. It is recommended that students take the highest-level math they place into.

² Program Elective. Select 2 of: PI-141 General Physics I, PI-142 General Physics II, CH-101 General Chemistry I, CH-102 General Chemistry II, MA-130 Calculus

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

HORT.AAS; CIP Code 01.0603

**Associate in Applied Science - Career**

This program prepares students on the growing and breeding of plants as well as maintaining productive soils.

**Program Learning Outcomes**

Upon Completion of this program, students should be able to:

- Apply knowledge of the Anatomy and Physiology of vascular plants by identifying, selecting, and managing agricultural crops
- Identify, select, and propagate woody and herbaceous plants used in the Mid-Atlantic region.
- Recognize and evaluate key pests and propose solutions for pest management.
- Display effective decision making, time management and project management skills in the horticulture industry though a field experience.
- Locate, retrieve, and critically evaluate information and information sources.

---

**Horticulture, A.A.S.**

**FIRST YEAR - Fall Semester**

- AG 105 Introduction to Agricultural Science 3
- EN 101 English Composition I 3
- CH 101 Chemistry I 4
- OH 130 Identification of Interior Plants 3
- BU 219 Retailing 3
  **Total Credits: 16**

**Spring Semester**

- AG 207 Agricultural Pest Control and Identification 4
- BI 101 General Biology I 4
- EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech 3
- General Education Mathematics Elective 3
- General Education Humanities Elective 3
  **Total Credits: 17**

**SECOND YEAR - Fall Semester**

- AG 106 Plant Science 4
- AG 209 Introduction to Soil Science 4
- OH 106 Plant Materials 3
- General Education Social Science Elective 3
  **Total Credits: 14**

**Spring Semester**

- AG 107 Plant Propagation 3
- AG 108 Herbaceous Plants 3
- OH 204 Greenhouse Management 4
- General Education Diversity Elective 3
  **Total Credits: 13**

**TOTAL CREDITS: 60**
**Mechanical Engineering Technology, A.A.S.**

**FIRST YEAR - Fall Semester**
- EN 101 English Composition I  
- EG 101 Introduction to Engineering I  
- MA 121 Precalculus Mathematics  
- PI 123 Fundamentals of Physics I  
- EG 102 Graphics  

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<td>MA 121 Precalculus Mathematics</td>
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<td>PI 123 Fundamentals of Physics I</td>
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**Spring Semester**
- EN 102 English Composition II  
- MA 130 Calculus I  
- EG 103 Introduction to Engineering Lab I  
- PI 124 Fundamentals of Physics II  
- IT 107 Circuits I  

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**SECOND YEAR - Fall Semester**
- EG 211 Introduction to Engineering II  
- EG 201 Statics  
- EC 202 Principles of Microeconomics  
- CH 101 General Chemistry  
- IT 160 CNC Programming  

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**Spring Semester**
- Introduction to Engineering II Lab  
- Engineering Dynamics  
- Programmable Logic Controllers  
- Effective Speech  
- Matlab Programming  

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</table>

**TOTAL CREDITS: 60**

[MET.ASS; CIP Code 15.0508]

**Associate in Applied Science - Career**

This program prepares students for entry-level employment in the field of mechanical engineering technology as well as transfer into baccalaureate programs leading to careers in manufacturing, product development, robotics, automotive, and various other industrial fields. The flexibility offered by this program allows for entrance directly into the workforce or transfer into a BS in Mechanical Engineering Technology program.

**Program Learning Outcomes**

Students who have completed the program will be able to:

- Apply knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities
- Apply knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge
- Conduct standard tests and measurements, and to conduct, analyze, and interpret experiments
- Identify, analyze, and solve narrowly defined engineering technology problems
- Apply written, oral, and graphical communication in both technical and non-technical environments with use of appropriate technical literature.
## GENERAL EDUCATION REQUIREMENTS

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

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<td>7</td>
<td>Unassigned general education credit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>General Education Foundation Total</strong></td>
<td></td>
<td><strong>33</strong></td>
<td><strong>30</strong></td>
<td><strong>20</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

### Course Categories

#### Gen. Ed. Foundation Course Categories

<table>
<thead>
<tr>
<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</td>
<td><strong>Communication</strong>&lt;br&gt;1 Written and Oral Communication&lt;br&gt;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</td>
<td><strong>Mathematics</strong>&lt;br&gt;2 Quantitative Knowledge and Skills&lt;br&gt;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</td>
<td><strong>Science</strong>&lt;br&gt;3 Scientific Knowledge and Reasoning&lt;br&gt;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</td>
<td><strong>Technology</strong>&lt;br&gt;4 Technological Competency&lt;br&gt;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</td>
<td><strong>Social Science</strong>&lt;br&gt;5 Society and Human Behavior&lt;br&gt;Any introductory course(s) from among anthropology, economics, geography, political science, psychology, or sociology.</td>
</tr>
<tr>
<td>6</td>
<td><strong>Humanities</strong>&lt;br&gt;6 Humanistic Perspective&lt;br&gt;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</td>
<td><strong>History</strong>&lt;br&gt;7 Historical Perspective&lt;br&gt;Any broad-based course(s) or sequence of courses in World, Western, non-Western, or American History.</td>
</tr>
<tr>
<td>8</td>
<td><strong>Diversity Courses</strong>&lt;br&gt;8 Global and Cultural Awareness&lt;br&gt;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

- **Course Criteria:** Below are brief descriptions of the course criteria for satisfying the requirements. For fuller descriptions, see the NJCC GE Course Criteria.
- **Ethical Reasoning and Action:** These courses include the ethical implications of issues and situations.
- **Information Literacy:** These courses include the requirement for students to address an information need by locating, evaluating and effectively using in formation.

### Programs

<table>
<thead>
<tr>
<th>Allocation Notes: The credit allocation below is consistent with the 1997 NJCC Gen. Ed. Foundation grid.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AA</strong> 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><strong>AS</strong> 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><strong>Specialized Associate AAS, AFA, &amp; AS Nursing</strong> 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 coursework shall support career preparation. General education coursework in excess of the 12 credits listed should follow the AS distribution limits.</td>
</tr>
<tr>
<td><strong>Certificate</strong> 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 certificate program, which is not applicable within the general education context.</td>
</tr>
</tbody>
</table>

Source: New Jersey Council of County Colleges www.njccc.org/gened
<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Communication</td>
<td>(Written &amp; Oral Communication)</td>
</tr>
<tr>
<td>EN 101</td>
<td>English Composition I</td>
</tr>
<tr>
<td>EN 102</td>
<td>English Composition II</td>
</tr>
<tr>
<td>EN 103</td>
<td>Technical Writing (AAS)</td>
</tr>
<tr>
<td>SP 203</td>
<td>Effective Speech</td>
</tr>
<tr>
<td>2. Mathematics</td>
<td>(Quantitative Knowledge &amp; Skills)</td>
</tr>
<tr>
<td>MA 105</td>
<td>Intermediate Algebra</td>
</tr>
<tr>
<td>MA 109</td>
<td>Principles of Mathematics</td>
</tr>
<tr>
<td>MA 110</td>
<td>College Algebra</td>
</tr>
<tr>
<td>MA 115</td>
<td>Mathematical Structures &amp; Algorithms</td>
</tr>
<tr>
<td>MA 119</td>
<td>Structure of Mathematics II</td>
</tr>
<tr>
<td>MA 120</td>
<td>College Trigonometry</td>
</tr>
<tr>
<td>MA 121</td>
<td>Precalculus Mathematics</td>
</tr>
<tr>
<td>MA 122</td>
<td>Business Calculus</td>
</tr>
<tr>
<td>MA 130</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MA 140</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MA 149</td>
<td>Mathematics for Management</td>
</tr>
<tr>
<td>MA 205</td>
<td>Statistics I</td>
</tr>
<tr>
<td>MA 206</td>
<td>Statistics II</td>
</tr>
<tr>
<td>MA 211</td>
<td>Discrete Mathematics</td>
</tr>
<tr>
<td>MA 212</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>3. Science (Scientific Knowledge &amp; Reasoning)</td>
<td>B</td>
</tr>
<tr>
<td>BI 101</td>
<td>General Biology I</td>
</tr>
<tr>
<td>BI 102</td>
<td>General Biology II</td>
</tr>
<tr>
<td>BI 108</td>
<td>Human Biology</td>
</tr>
<tr>
<td>BI 106</td>
<td>Anatomy &amp; Physiology I</td>
</tr>
<tr>
<td>BI 107</td>
<td>Anatomy &amp; Physiology II</td>
</tr>
<tr>
<td>BI 117</td>
<td>Introduction to Biology</td>
</tr>
<tr>
<td>BI 122</td>
<td>Environmental Science</td>
</tr>
<tr>
<td>BI 203</td>
<td>Microbiology</td>
</tr>
<tr>
<td>BI 221</td>
<td>Cell and Molecular Biology</td>
</tr>
<tr>
<td>CH 101</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CH 102</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>CH 107</td>
<td>Introductory Chemistry</td>
</tr>
<tr>
<td>CH 201</td>
<td>Organic Chemistry I</td>
</tr>
<tr>
<td>CH 202</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>GL 101</td>
<td>Physical Geology</td>
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<tr>
<td>GL 102</td>
<td>Historical Geology</td>
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<tr>
<td>GL 117</td>
<td>Earth Science</td>
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<tr>
<td>PI 105</td>
<td>Physical Science</td>
</tr>
<tr>
<td>PI 108</td>
<td>Atmospheric Science Concepts</td>
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<tr>
<td>PI 109</td>
<td>Physics of Musical Sound</td>
</tr>
<tr>
<td>PI 110</td>
<td>Principles of Science I</td>
</tr>
<tr>
<td>PI 115</td>
<td>Astronomy</td>
</tr>
<tr>
<td>PI 123</td>
<td>Fundamentals of Physics I</td>
</tr>
<tr>
<td>PI 124</td>
<td>Fundamentals of Physics II</td>
</tr>
<tr>
<td>PI 141</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PI 142</td>
<td>General Physics II</td>
</tr>
<tr>
<td>PI 241</td>
<td>Forensic Science I</td>
</tr>
<tr>
<td>4. Technology (Technological Competency or Information Literacy)</td>
<td>T</td>
</tr>
<tr>
<td>CS 101</td>
<td>Introduction to Microcomputers</td>
</tr>
<tr>
<td>CS 102</td>
<td>Applications on the Microcomputer</td>
</tr>
<tr>
<td>CS 113</td>
<td>Introduction to Computers</td>
</tr>
<tr>
<td>CS 114</td>
<td>Fundamentals of Programming</td>
</tr>
<tr>
<td>5. Social Sciences</td>
<td>(Society &amp; Human Behavior)</td>
</tr>
<tr>
<td>AN 102</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>EC 103</td>
<td>Introduction to Economics</td>
</tr>
<tr>
<td>EC 201</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>EC 202</td>
<td>Principles of Microeconomics</td>
</tr>
<tr>
<td>GE 101</td>
<td>World Regional Geography</td>
</tr>
<tr>
<td>GE 102</td>
<td>Cultural Geography</td>
</tr>
<tr>
<td>PS 201</td>
<td>American Federal Government</td>
</tr>
<tr>
<td>PS 203</td>
<td>State &amp; Local Government</td>
</tr>
<tr>
<td>PY 101</td>
<td>General Psychology</td>
</tr>
<tr>
<td>PY 102</td>
<td>Child Psychology</td>
</tr>
<tr>
<td>PY 207</td>
<td>Human Growth &amp; Development</td>
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<tr>
<td>SO 130</td>
<td>Society, Ethics &amp; Technology</td>
</tr>
<tr>
<td>SO 201</td>
<td>Introductory Sociology</td>
</tr>
<tr>
<td>6. Humanities (Humanistic Perspective)</td>
<td>H</td>
</tr>
<tr>
<td>AR 101</td>
<td>Art Appreciation</td>
</tr>
<tr>
<td>AR 107</td>
<td>Art History I</td>
</tr>
<tr>
<td>AR 108</td>
<td>Art History II</td>
</tr>
<tr>
<td>MU 101</td>
<td>Music Appreciation</td>
</tr>
<tr>
<td>MU 114</td>
<td>History of Music</td>
</tr>
<tr>
<td>MU 115</td>
<td>History of Jazz &amp; Popular Music</td>
</tr>
<tr>
<td>TH 101</td>
<td>Theatre Appreciation</td>
</tr>
<tr>
<td>TH 201</td>
<td>Theatre History</td>
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<tr>
<td>7. History (Historical Perspective)</td>
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<tr>
<td>HI 101</td>
<td>Western Civilization I</td>
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<tr>
<td>HI 102</td>
<td>Western Civilization II</td>
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<tr>
<td>HI 103</td>
<td>World History and Culture I</td>
</tr>
<tr>
<td>HI 104</td>
<td>World History and Culture II</td>
</tr>
<tr>
<td>HI 113</td>
<td>Latin American History</td>
</tr>
<tr>
<td>HI 201</td>
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<td>HI 202</td>
<td>United States History II</td>
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<td>HI 208</td>
<td>African American History</td>
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<tr>
<td>8. Global &amp; Cultural Awareness</td>
<td>(Diversity)</td>
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<tr>
<td>AN 102</td>
<td>Cultural Anthropology</td>
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<tr>
<td>AN 103</td>
<td>Cultural Diversity in the U.S.</td>
</tr>
<tr>
<td>EN 208</td>
<td>Images of Women in Literature</td>
</tr>
<tr>
<td>EN 225</td>
<td>Introduction to Latino Literature</td>
</tr>
<tr>
<td>FR 201</td>
<td>Intermediate French I</td>
</tr>
<tr>
<td>FR 202</td>
<td>Intermediate French II</td>
</tr>
<tr>
<td>GE 101</td>
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</tr>
<tr>
<td>GE 102</td>
<td>Cultural Geography</td>
</tr>
<tr>
<td>GE 110</td>
<td>Cultural Geography of North America</td>
</tr>
<tr>
<td>HI 103</td>
<td>World History and Culture I</td>
</tr>
<tr>
<td>HI 104</td>
<td>World History and Culture II</td>
</tr>
<tr>
<td>HI 113</td>
<td>Latin American History</td>
</tr>
<tr>
<td>HI 116</td>
<td>The Holocaust</td>
</tr>
<tr>
<td>HI 208</td>
<td>African American History</td>
</tr>
<tr>
<td>LS 201</td>
<td>Intermediate Spanish I</td>
</tr>
<tr>
<td>LS 202</td>
<td>Intermediate Spanish II</td>
</tr>
<tr>
<td>MU 115</td>
<td>History of Jazz &amp; Pop Music</td>
</tr>
<tr>
<td>RL 102</td>
<td>World Religions</td>
</tr>
<tr>
<td>RL 103</td>
<td>Intro to Asian Religions</td>
</tr>
<tr>
<td>9. Social Minorities &amp; Intergroup Relations</td>
<td></td>
</tr>
<tr>
<td>AN 102</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>AN 103</td>
<td>Cultural Diversity in the U.S.</td>
</tr>
<tr>
<td>EN 208</td>
<td>Images of Women in Literature</td>
</tr>
<tr>
<td>EN 225</td>
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<tr>
<td>FR 201</td>
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<td>RL 103</td>
<td>Intro to Asian Religions</td>
</tr>
<tr>
<td>SO 207</td>
<td>Social Minorities &amp; Intergroup Relations</td>
</tr>
<tr>
<td>10. Philosophy/Religion</td>
<td></td>
</tr>
<tr>
<td>PH 101</td>
<td>Introduction to Philosophy</td>
</tr>
<tr>
<td>PH 102</td>
<td>Introduction to Ethics</td>
</tr>
<tr>
<td>RL 101</td>
<td>Perspectives on Religion</td>
</tr>
<tr>
<td>RL 102</td>
<td>World Religions</td>
</tr>
<tr>
<td>RL 103</td>
<td>Intro to Asian Religions</td>
</tr>
<tr>
<td>11. Ethical Reasoning &amp; Action</td>
<td></td>
</tr>
<tr>
<td>Ethical Reasoning and Action are infused in all of the above categories (1-8).</td>
<td></td>
</tr>
</tbody>
</table>
Course Descriptions

Subject code and course number - each course is assigned a two-letter code identifying the course subject and a three-digit number
Gen Ed code - each course designated with one letter in quotes fulfills the General Education Requirement
Credits - number of credits to be awarded to the student who successfully completes the course

ACCOUNTING

AC-103: Accounting I (4.00 cr.)
This course provides an understanding of the fundamental principles underlying basic accounting theory and establishes a basis for subsequent accounting courses. The complete accounting cycle is presented for both service and merchandising entities. Prerequisite: AC-103

AC-104: Accounting II (4.00 cr.)
A continuation of AC-103, this course offers a study of the basic principles of accounting, typical to partnerships and corporations, such as a nature and formation of the corporation, capital stock entries, capital earnings, and dividends. Cash Flow Statements are also covered in detail. Prerequisite: AC-103

AC-201: Intermediate Accounting I (4.00 cr.)
Covers such topics as financial statements, balance sheets, income statements, retained earnings statements, accounting processes, receivables, inventories, plant assets, intangibles, and current liabilities. Prerequisite: AC-201

AC-202: Intermediate Accounting II (4.00 cr.)
Covers such topics as investments, bonds and funds, long-term liabilities, paid-in capital, financial statement analysis, and cash-flow reporting. Prerequisite: AC-202

AC-207: Accounting Information Systems (3.00 cr.)
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. Student must successfully complete CS-119 Spreadsheets - EXCEL prior to registering for this course.

AC-221: Managerial Accounting (3.00 cr.)
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. Prerequisite: AC-104

AC-231: Federal Income Taxes (3.00 cr.)
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. Prerequisite: EN-060 and MA-094

AGRICULTURE

AG-105: Intro to Agricultural Science (3.00 cr.)
The course introduces students to career opportunities and the general concepts of horticulture which include plant taxonomy, physiology, crops and their general management. Prerequisite: EN-060

AG-106: Plant Science (4.00 cr.)
Designed to familiarize the student with the factors that limit plant growth such as light, water, temperature and nutrients. Students identify the horticulture relationships of plants to botanical anatomy and function. Prerequisite: EN-060

AG-107: Plant Propagation (3.00 cr.)
Acquaints the student with the techniques and facilities needed for plant propagation in the greenhouse and nursery industry. Prerequisite: EN-060 (Required, Previous or concurrent).

AG-108: Herbaceous Plants (3.00 cr.)
Emphasizes the identification of many annual, biennial and perennial herbaceous plants and their usage in design layouts. Prerequisite: EN-060

AG-114: Internship (1.00 cr.)
Students will apply knowledge they gained in class work to "real world" situations. The student is expected to present a journal of their work experience for grading. Prerequisite: EN-060

AG-201: Agricultural Marketing (3.00 cr.)
Covers the practices used in the marketing of farm products. Principles of farm cooperatives, farm markets and stores, crop planning, methods of distribution, research procedures and marketing problems facing the farmer today will be discussed. Prerequisite: EN-060

AG-203: Fruit Production (3.00 cr.)
Acquaints the student with the cultural requirements of the important vegetable crops produced in Southern New Jersey. Discussions included are: nutritional requirements, disease and insect problems, harvesting procedures and methods of weed control. Prerequisite: EN-060

AG-207: Agriculture Pest Control (4.00 cr.)
Designed to introduce the student to the fundamental theories, principles and practices of pest control for agriculture and ornamental horticulture crops. Diagnostic skills for insect, disease, and weed identification are presented. Prerequisite: EN-060

AG-209: Introduction to Soil Science (4.00 cr.)
Acquaints the student with soil concepts, plant nutrients, and their influence on plant growth. Emphasis will also be placed on soil testing, nutrient deficiency symptoms, and fertilizer requirements. Prerequisite: EN-060 (Required, Previous or concurrent).

ANTHROPOLOGY

AN-102: Cultural Anthropology (3.00 cr.)
An introduction to the complexity of human life and the 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. Gen Ed: S/D Prerequisite: EN-060

AN-103: Cultural Diversity in the US (3.00 cr.)
An exploration of multiculturalism, inclusiveness, tolerance and a celebration of different lifeways in the United States. Critical understanding and reflective analysis will be used to broaden our perspectives on these issues. Gen Ed: S/D Prerequisite: EN-060
AR-101: Art Appreciation (3.00 cr.)
An introduction to the fundamentals of creating art. Students will examine the visual elements and design principles necessary to create works of art. Students will discern a work's subject matter and content through writing criticisms of art or working hands on exploring the creative process. Students will be expected to go on a field trip to an art museum or gallery. Gen Ed: H Prerequisite: RD-094 and EN-093 or EN-050 (Required, Previous or concurrent).

AR-103: Intro. to Art Therapy & Method (3.00 cr.)
This course provides an introduction to the art therapy profession. Students will learn about the interface of art and therapy as well as basic theory and application of the discipline through definitions, history and basic elements within the field. Course topics will research major contributors to the field, what art therapists do and where art therapists work. Students will be able to identify the significance of art as a therapeutic agent and a springboard to non-verbal communication.

AR-104: Intro. to Art Therapy Practice (3.00 cr.)
Students will study specific applications of art therapy as they relate to school, clinical, prevention, rehabilitation, juvenile justice, community populations and agencies. Age group of students also includes both student and adult populations. Mean or assessment/diagnosis and treatment with individuals and groups will be explored. Students will have the opportunity, as an observer, to participate in various field experiences under the direct supervision of an art therapist. Student can expect guest speakers, lecturers, site visits, and potential internship opportunities. Prerequisite: AR-103

AR-107: Art History I (3.00 cr.)
A chronological presentation of Western visual arts from prehistory (cave paintings) to the Renaissance. The focus will be on the historical and cultural context of the works of art. The class will discuss how the visual arts functioned and were viewed at the time of their creation. The role and status of the artist, movement and the patron in each culture or period will be examined. Gen Ed: H Prerequisite: RD-100 and EN-100 or EN-070

AR-108: Art History II (3.00 cr.)
A continuation of Art History I from the Renaissance onward to the present day. Major styles and movements will be examined: baroque, romanticism, realism and modernism. The context of the arts will be presented in a chronological, cultural and historical format. Gen Ed: H Prerequisite: RD-100 and EN-100 or EN-070

AR-110: Fundamentals of Drawing (3.00 cr.)
Introductory course that is part of the formal foundation for studying art. This class will focus on the mastery of drawing techniques such as gesture, contour and modeling with light. The students will learn the principles and practices of form and design. Through a series of lectures and assembling in the manipulation of materials, including paper, clay, wood, plaster and metal. Prerequisite: AR-103

AR-113: Fundamentals of Drawing II (3.00 cr.)
This course builds on what was accomplished in Fundamentals of Drawing I and leads the student to further explore the drawing medium. Greater depth of ideas and more sophisticated technical execution are emphasized. Prerequisite: AR-110

AR-115: Painting I (3.00 cr.)
Will assist students in developing an understanding of traditional painting methods, materials and terminology through painting still life subject matter in oil or acrylic media. This course covers the fundamentals of composition, materials and methods through a combination of instruction and studio experience. Studio hours to be announced.

AR-120: Printmaking I (3.00 cr.)
A generalized intro to the various methods of printmaking. The student will have the opportunity to work with linoleum plates and woodcut printing processes. The student will also be able to do mono prints using the press. This course concentrates on creative imaging and expression through the medium of printmaking.

AR-131: Intro. to Digital Photography (3.00 cr.)
This course is an introduction to digital photography. Current trends in image making are examined from aesthetic, cultural, social and political points of view. Topics include elements of basic camera operation, exposure, lighting, composition, visual literacy and investigation of the relationships between elements of form, shape, line and color. A digital camera is required (DSLR preferred). Student must possess college-level English competency to enroll in this course.

AR-140: Sculpture I (3.00 cr.)
This is an introductory sculpture course. Students will work in clay, plaster and wire. Students will work from a live model to learn portraiture and proportions of the human form. Demonstration using basic sculptural materials will be provided.

AR-145: Sculpture II (3.00 cr.)
Students will build on what is mastered in Sculpture I. Students will continue using basic materials and specific art-historical references to create work that is more self-directed. Students explore carving, modeling and assembling in the manipulation of materials, including paper, clay, wood, plaster and metal. Prerequisite: AR-140

AR-200: 2-Dimensional Design (3.00 cr.)
2-Dimensional Design provides students with a basic grounding in the process of defining, generating and evaluating visual ideas. Emphasis is on problem solving, thinking and making processes in regards to the visual elements and design principles. Students may use representational and non-representational forms to explore the principles of organization while learning skills in the use of black and white medium, acrylic pigments and equipment including technical pens, brushes and simple drafting tools. Studio hours to be announced. Prerequisite: AR-110

AR-202: Color Theory & Practice (3.00 cr.)
This course will expand the student's understanding of color through a thorough exploration of fundamental color theory principles. Subjective feeling and objective color principles will also be addressed. Prerequisite: AR-200

AR-205: 3-Dimensional Design (3.00 cr.)
Three-dimensional visual art combines the study of the basic elements, principles and practices of form and design. Through a series of lectures and hands-on problem solving projects, the student will have the opportunity to experience and understand form in three dimensions. This course is required for students in the Ceramic Certificate program or those majoring in Ceramics. Students majoring in Art Education or Fine Arts are also strongly encouraged to Prerequisite: this course, as well as graphic designers interested in product design or display. Prerequisite: AR-110

AR-213: Life Drawing (3.00 cr.)
Provides instruction in drawing the human figure. A live model will be used during class time. There is an emphasis on a variety of approaches. Dynamics, proportion, anatomy, volume and structure are investigated through various drawing methods and selected materials. Prerequisite: AR-110

AR-215: Painting II (3.00 cr.)
This course builds on what was mastered in Painting I. The development of an individualized style in form and content is explored and encouraged. Students also have the opportunity to complete works that involve the figure and the environment. Prerequisite: AR-115
AR-231: Inter. Digital Photography (3.00 cr.)
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. Student must successfully complete EN-060 and AR-131 before registering for this course.

BIOLOGY

BI-101: General Biology I (4.00 cr.)
An integrated course with laboratory exercises closely correlated to the lectures dealing with cells, plant biology and evolution. Gen Ed: B  
Prerequisite: RD 100 and EN 100 or EN 070 and Prerequisite: MA-091 or ma-094

BI-102: General Biology II (4.00 cr.)
An integrated course with laboratory exercises closely correlated to the lectures dealing with cells, zoology, human physiology, behavior and ecology. Gen Ed: B  Prerequisite: BI-101

BI-106: Anatomy & Physiology I (4.00 cr.)
This course presents a comprehensive study of structure and function of the gross and microscopic organization of the human body. Emphasis is placed on learning basic anatomical terms, the structure and function of cells and tissues, integumentary, skeletal, and muscular and nervous systems. Laboratory experiences include experimental labs which reinforce contemporary scientific concepts and laboratory exercises that closely correlate to the lecture topics. Student must successfully test into college-level English, and successfully complete either CH-101 General Chemistry I or CH-107 and must complete BI-101 General Biology I before registering for this class. Alternatively, student must test into college-level English and have successfully completed a High School Chemistry class and High School Biology class before registering for this class.

BI-107: Anatomy & Physiology II (4.00 cr.)
Students demonstrate an understanding of the nervous system, endocrine system, cardiovascular and lymphatic system, respiratory system, digestive and urinary system. Laboratory sessions support lecture topics. GEN ED: B  Prerequisite: BI 106

BI-108: Human Biology (4.00 cr.)
Human Biology introduces students to the anatomy and physiology of the human body. The course provides a basic overview of the normal structure and function of body systems and their interrelations. The course will not serve as a prerequisite for Anatomy and Physiology and is not a substitute for Anatomy and Physiology. Laboratory sessions will provide students with a basic overview of the normal structure and function of the body systems. This course is not intended for science majors. Gen Ed: B  Prerequisite: EN-060

BI-117: Introduction to Biology (4.00 cr.)
Offers the non-science major to selected topics in chemistry, cells, genetics, evolution and diversity and ecology. Among the topics discussed will be the role of chemistry in biology; cellular functions; the role of DNA and genes in patterns of inheritance; the evolution and diversity of plants, fungi and animals; and communities and ecosystems. In these laboratory sessions, students will gain hands-on experience in selected topics in biology. Among the topics studied in the laboratory will be the scientific method, cell structure and function, basic genetics, DNA technology, natural selection, biodiversity and the components of an ecosystem. Gen Ed: B  
Prerequisite: MA-091 and EN-060

BI-122: Environmental Science (4.00 cr.)
An introductory course in the fundamental concepts of environmental science. Topics discussed include biogeochemical cycles, energy cycles and the effects of chemical and radioactive substances on the air, water and land masses of the earth. Laboratory activities will focus on quantification and assessment of environmental parameters in local aquatic and terrestrial ecosystems. GEN ED: B  Prerequisite: RD 100 and EN 100 or EN 070  and ma-091 or ma-094

BI-201: Genetics (4.00 cr.)
Offers a study of the principles of transmission and molecular genetics, with emphasis on human genetics. Laboratory sessions will provide students with basic experience in karyotype preparation, DNA and protein electrophoresis including sample preparation and data interpretation. Prerequisite: BI-101 BI-102 or CH-101 and MA-094

BI-203: Microbiology (4.00 cr.)
Covers characteristics of micro-organisms in nature and disease with the standard laboratory techniques in pure culture study, disinfection and sterilization. GEN ED: B  Prerequisite: BI-101 or BI-102 or BI-106 or CH-101

BI-208: Intro to Infectious Diseases (3.00 cr.)
This introductory course will include a discussion of the bacteria, parasites, viruses and other agents causing infectious diseases; the role of the health professional in infectious disease control; a study of the incidence, distribution, and control of disease in populations and the emergence and reemergence of infectious diseases. Prerequisite: rd-100 and en-100 or en-060 and MA-091 or MA-094

BI-209: Research Methods and Data Analysis (4.00 cr.)
This course is designed to focus on the process of science, specifically fostering the student's independent use of scientific method/hypothesis testing. Emphasis is placed on developing valid sample approaches, experimental design and data analysis. A variety of a parametric and non-parametric statistical approach will be covered. Students will be trained to think and approach questions like a scientist which will help students succeed in any future endeavors, whether they are directly scientific or not. Computer software will be used regularly to manipulate and analyze data and present results. Prerequisite: MA-205 and BI-102 or BI-122

BI-210: Basic Pathology (3.00 cr.)
Focuses on the molecular, cellular and tissue alterations which contribute to disease processes. Students will become familiar with the processes involved in cell injury and repair, inflammation and healing. Tumor behavior, hemodynamic derangements and disorders of selected organ systems will be discussed. Prerequisite: bi-107

BI-215: Ecology (4.00 cr.)
This course involves studying the relationships between organisms and their environments. Population dynamics, nutrient cycling, community and ecosystem structure, evolution, natural selection, and current environmental issues will be covered. This is a lab science courses with 3 hours of lab per week in addition to 3 lecture hours per week. Prerequisite: bi-101, bi-102 or bi-122

BI-216: Biomechanics (3.00 cr.)
The objective of this course is to introduce students to concepts of mechanics as they apply to human movement, particularly those pertaining to exercise and sport. A qualitative approach will be used to analyze the anatomical and mechanical principles that apply to the body involved in physical activity. Prerequisite: bi-106
**BU-106: Principles of Management** (3.00 cr.)
This course covers the basic functional, behavioral, and quantitative concepts relating to the management of a business organization. Topics include planning and decision making, human resources, leadership styles, and organizational structure. Prerequisite: EN-060

**BU-109: Business Law I** (3.00 cr.)
Offers an introduction to business law, contract, agency employment, personal property and sales. Prerequisite: EN-060

**BU 110: Business Law II** (3.00 cr.)
Topics covered include international law relating to commercial practice, partnerships, corporations, insurance, bankruptcy, real property, and descendants' estates. Prerequisite: BU 109

**BU-115: Introduction to Business** (3.00 cr.)
Offers a general overview of the large corporate type of business manufacturing enterprise, the individual proprietorship, and partnership type of business organization. Topics include the foundations of business, forms of business ownership, marketing principles, business finance, the stock market as well as business terminology. Prerequisite: EN-060

**BU-117: Principles of Advertising** (3.00 cr.)
Focuses on the development of advertising economics and the functions of advertising. Topics include the development of advertisements, copy and layout, cost and application as well as various media outlets. Prerequisite: BU-207

**BU-118: Professional Selling** (3.00 cr.)
Covers the principles of sales with practical applications including prospecting, product and service analysis, meeting objections, demonstrating, sales psychology, and preparing for sales presentations. Prerequisite: EN-060

**BU-119: Personal Finance** (3.00 cr.)
This course introduces students to the basic principles of personal finance. It provides comprehensive coverage of personal financial planning in the areas of money management, career planning, taxes, consumer credit, housing and other consumer decisions, legal protection, insurance, investments, retirement planning, and estate building. Prerequisite: EN-060

**BU-121: Introduction to Business Ethic** (3.00 cr.)
This course highlights the importance of business ethics, examines issues and perspectives of right and wrong in American business through case studies, defines the criteria for ethical leadership and the decision making process, and illustrates methods to implement business ethics in a global economy. Prerequisite: EN-060

**BU-122: Introduction to Entrepreneurship** (3.00 cr.)
This course covers 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. Prerequisite: EN-060

**BU-123: Personal and Professional Branding** (1.00 cr.)
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.

**BU-207: Principles of Marketing** (3.00 cr.)
Introduces students to all of the activities and processes involved in the flow of goods and services from producers and/or manufacturers to the various types of consumers. Prerequisite: EN060

**BU-209: Small Business Management** (3.00 cr.)
Provides complete coverage of small business operations with the 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. Prerequisite: BU-106

**BU-210: Organizational Behavior** (3.00 cr.)
Provides the student with the theories and concepts associated with the origin, development, conduct, and growth of both formal and informal groups and organizations in the business enterprise. Prerequisite: EN-060

**BU-212: Human Resource Management** (3.00 cr.)
Covers the organization and management of employees, their procurement and placement, supervision, the improvement of employee performance, management and labor relations as well as the future of human resource management. Prerequisite: EN-060

**BU-216: Social Media Marketing and Web Analytics** (3.00 cr.)
This course provides hands-on instruction on the effective use of social media, online marketing, and social networking. Students will 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. Student must successfully complete EN 060 - Introduction to College Reading or receive placement through CBST.

**BU-219: Retailing** (3.00 cr.)
Includes the principles of understanding successful retailing including the analysis of a store location, equipment and layout, organization of market contracts, selecting, buying and receiving merchandise, and the development of a retail sales program. Prerequisite: EN-060

**BU-233: Corporate Finance** (3.00 cr.)
Covers principles and practices of business finance, economic and financial optimization, investments, cash flows, expansion, reorganization, and liquidation. Prerequisite: AC-103

**BU-239: Organizational Development** (3.00 cr.)
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. Student must have successfully completed BU-106 prior to registering for this course.
CR-101: Ceramics I (3.00 cr.)
Introduces students to traditional and contemporary hand-building techniques, such as pinch, coil and slab. Techniques in preparation of glazes, in firing, and in kiln procedures will be demonstrated. Prerequisite: CR-101

CR-102: Ceramics II (3.00 cr.)
Builds on what was mastered in Ceramics I and introduces the student to the wheel. Projects will include both hand building and wheel techniques. Prerequisite: CR-101

CR-103: Ceramics III (3.00 cr.)
Focuses on both hand building and wheel techniques to further advance his or her skills. Emphasis is placed on creating work that is not only technically accomplished, but communicates the student's personal message. Prerequisite: CR-102

CR-105: Sculptural Ceramics (3.00 cr.)
Investigates the use of clay to create sculptural forms. Using basic building methods, students will be involved with more complex forms requiring special construction considerations. Students will learn alternative surface treatment and firing techniques. Prerequisite: CR-101

CR-106: Ceramic Technologies (3.00 cr.)
A lecture and laboratory course designed to initiate investigation of basic clay and glaze materials. The nature of clays and the relationship among clay bodies, slips and glazes is explored. Prerequisite: CR-101

CR-107: Clay Co-Op Exp- Gallery (3.00 cr.)
Gives the student practical experience in operating a gallery. This course is designed to give students a 135 hour internship experience which focuses on all facets of studio management including how to keep track of inventory, how to maintain and order supplies, and how to run a safe and efficient studio. Students will meet with the instructor of Ceramics III, who will organize the work schedule. Students are expected to work nine hours a week for fifteen weeks in the gallery. Prerequisite: CR-102

CR-108: Clay Co-Op Exp- Studio (3.00 cr.)
This course is designed to offer students a 135 hour internship experience which focuses on all facets of studio management including how to keep track of inventory, how to maintain and order supplies, and how to run a safe and efficient studio. Students will meet with the instructor of Ceramics III, who will organize the work schedule. Students are expected to work nine hours a week for fifteen weeks in the studio. Prerequisite: CR-102 and CR-106

CR-109: Craft Business Practices (3.00 cr.)
Provides students with the opportunity to write their own business plans. Specific concerns regarding studio management, marketing research, advertising, gaining admission to the craft market show circuit, how to write a resume and prepare slide presentations will be addressed. Prerequisite: CR-103 and CR-105

CHEMISTRY

CH-101: General Chemistry I (4.00 cr.)
This is the first semester of a two-semester sequential course presenting the basic principles involved in the study of chemistry. Topics include matter and measurement, atomic theory, nomenclature, chemical reactions and stoichiometry, reactions in aqueous solutions, thermochemistry, electronic structure of atoms, periodicity, chemical bonding, molecular geometry and bonding theories, gas laws, liquids and intermolecular forces, and solids and modern materials. Basic laboratory work supports lecture topics. Student must have successfully completed High School Chemistry or successfully completed CH-107 Introductory Chemistry and MA-105 Intermediate Algebra. Student must also test into college-level English prior to entering this course.

CH-102: General Chemistry II (4.00 cr.)
This is the second semester of a two-semester sequential course presenting the basic principles involved in the study of chemistry. Topics include properties of solutions, chemical kinetics, chemical equilibrium, acid-base equilibria, equilibria of sparingly soluble salts, chemical thermodynamics, electrochemistry, and a brief introduction to organic chemistry. Laboratory work supports lecture topics. Student must pass CH-101 General Chemistry I with a "C" or better in order to register for this class.

CH-107: Introductory Chemistry (4.00 cr.)
This course introduces basic principles of 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. Student must place into college-level Math and English in order to register for this class.
CH-201: Organic Chemistry I (4.00 cr.)
This is the first semester of a two-semester sequential course presenting the basic principles of organic chemistry. Topics include bonding and molecular structure, functional groups, an introduction to organic reactions, nomenclature of alkanes and cycloalkanes, conformational analysis, stereochemistry, mechanisms of nucleophilic substitution and elimination reactions, properties and synthesis of alkenes, alkyenes, alcohols, and ethers. Fourier transform infrared (FTIR) spectroscopy and H-1 and C-13 nuclear magnetic resonance (NMR) spectroscopy. Laboratory exercises involve practice in microscale synthesis, separation, purification and analysis techniques of organic compounds including hands-on operation of modern instrumental methods such as gas chromatography (GC), FTIR and NMR. Student must successfully complete CH-102 General Chemistry II prior to registering for this course.

CH-202: Organic Chemistry II (4.00 cr.)
This is the second semester of a two-semester sequential course presenting the basic principles of organic chemistry, with a focus on the study of the properties and synthesis of the major organic functional groups including conjugated alkenes and alkyenes, aromatic compounds, aldehydes, ketones, carboxylic acids, and amines. Lecture also covers ultraviolet (UV) spectroscopy as an analytical tool for conjugated systems. Laboratory exercises involve further practice in microscale synthesis, separation, purification and analysis techniques of representative compounds from the major functional groups covered in lecture, including hands-on operation of modern instrumental methods such as FTIR, NMR and UV spectroscopy. Student must successfully complete CH-201 Organic Chemistry I prior to registering for this course.

COMMUNICATIONS
CO-101: Mass Media Influence (3.00 cr.)
This course offers an opportunity to investigate, evaluate and appreciate the operation and impact of various forms of mass media and provide insight into the media's daily influence on consumers, politics, education and cultures. Student must successfully complete EN-101 English Composition I prior to registering for this class.

CO-102: Introduction to Communication (3.00 cr.)
This course provides an overview of the basic concepts of communication and the skills necessary to communicate in various contexts. Emphasis is placed on how verbal and nonverbal messages are produced and received along with communication theories and techniques used in intrapersonal, interpersonal, small group, public speaking, and mass communication situations.

CO-104: Writing for Electronic Media (3.00 cr.)
The introduction to the principles and techniques of written formats commonly used in radio, television and new media. Assignments include development of the treatment, rundown sheet, story board and script. Prerequisite: EN-101

CO-114: Digital Media I (3.00 cr.)
Video and Digital Media I is designed to introduce students to the technical and practical proficiency in television and digital production in complete formats such as news, interviews, music and drama. Prerequisite: CO-104 (Recommended, Previous or concurrent).

CO-118: Intro to Audio Production (3.00 cr.)
This course is designed to give the aspiring student a sound pedagogical foundation in the theory and application of computer-based music production.

CO-210: Film History & Appreciation (3.00 cr.)
Film History and Appreciation will introduce students to the film industry and history of cinema through the study of classic and contemporary films. Students will learn about the basic elements that distinguish films such as narrative, cinematography, sound, editing and set design, and how these components work together to develop stories and characters. Emphasis will be placed on exposing the class to a wide variety of styles and genres by viewing, analyzing, discussing and writing about films as a means of developing a greater visual literacy. Student must be at college level English to register for this class.

CO-212: TV History & Appreciation (3.00 cr.)
TV History & Appreciation is a foundation course for Radio/TV/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 prime time TV's portrayal of the American family, gender roles, violence, politics and the legal, law enforcement and medical professions. Student must be at college level English.

CO-214: Digital Media II (3.00 cr.)
Digital Media II offers students knowledge in advanced applications of digital media equipment to produce programming in a variety of formats while working in remote and studio settings. Prerequisite: CO-114

CHILD ADVOCACY
CA-101: Intro to Child Advocacy (3.00 cr.)
This course provides students with an overview of the field of child advocacy. The role of the child advocate is explored in numerous professional settings. Ethical, legal, and professional responsibilities are discussed. Prerequisite: EN-060

CA-102: Ecological Syst & Devel Child (3.00 cr.)
This course will provide the students with an understanding of major issues in normal development from infancy through adolescence, with a particular focus on areas that are most germane to current child advocacy efforts in child protection, juvenile justice, and custody determination. Prerequisite: EN-060

CA-103: Cultural Comp in Child Welfare (3.00 cr.)
This course will identify the three components of cultural competency that have been identified in the child welfare field: value base, knowledge and skills. This course will focus on enabling students to examine the values that are necessary for a culturally competent understanding and response to child welfare, specifically accepting the existence of biases and developing a commitment to a strengths-based model that relies on respect and working toward empowerment as a goal for intervention. Culture is defined broadly, and the course will expose students to a range of belief systems common in different groups concerning child rearing and child maltreatment.

CA-104: Children and Justice (3.00 cr.)
This course provides students with an understanding of how the law relates to children's public good.

CA-105: Child Advocacy Field Work (3.00 cr.)
This course 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 students' activities for 90 hours during the semester.

CO-101: Mass Media Influence (3.00 cr.)
This course offers an opportunity to investigate, evaluate and appreciate the operation and impact of various forms of mass media and provide insight into the media's daily influence on consumers, politics, education and cultures. Student must successfully complete EN-101 English Composition I prior to registering for this class.

CO-102: Introduction to Communication (3.00 cr.)
This course provides an overview of the basic concepts of communication and the skills necessary to communicate in various contexts. Emphasis is placed on how verbal and nonverbal messages are produced and received along with communication theories and techniques used in intrapersonal, interpersonal, small group, public speaking, and mass communication situations.

CO-104: Writing for Electronic Media (3.00 cr.)
The introduction to the principles and techniques of written formats commonly used in radio, television and new media. Assignments include development of the treatment, rundown sheet, story board and script. Prerequisite: EN-101

CO-114: Digital Media I (3.00 cr.)
Video and Digital Media I is designed to introduce students to the technical and practical proficiency in television and digital production in complete formats such as news, interviews, music and drama. Prerequisite: CO-104 (Recommended, Previous or concurrent).

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Film History and Appreciation will introduce students to the film industry and history of cinema through the study of classic and contemporary films. Students will learn about the basic elements that distinguish films such as narrative, cinematography, sound, editing and set design, and how these components work together to develop stories and characters. Emphasis will be placed on exposing the class to a wide variety of styles and genres by viewing, analyzing, discussing and writing about films as a means of developing a greater visual literacy. Student must be at college level English to register for this class.

CO-212: TV History & Appreciation (3.00 cr.)
TV History & Appreciation is a foundation course for Radio/TV/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 prime time TV's portrayal of the American family, gender roles, violence, politics and the legal, law enforcement and medical professions. Student must be at college level English.

CO-214: Digital Media II (3.00 cr.)
Digital Media II offers students knowledge in advanced applications of digital media equipment to produce programming in a variety of formats while working in remote and studio settings. Prerequisite: CO-114
CO-216: Foundations Media Production  
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, and lighting and editing during the post-production process to create a final film project. Student must pass EN-101 with a “C” or better in order to be eligible to register for this class.

CO-217: Applied Media Aesthetics  
Important: In order to be eligible to register for this class, a student must be in enrolled in the Rowan 3+1 program for Radio, TV and Film. Foundation course for Radio/TV/Film students and prerequisite for future courses. Introduces students to universally applicable aesthetics principles and terminology of media productions through lectures, media examples, and non-production projects. Permission from instructor required.

CO-240: Broadcast Media  
Designed to offer students a 135 hour internship with local broadcast media. Students will work with participating TV and/or radio stations or camera/production crew for the equivalent of at least 12 hours per week. Permission of instructor required.

CO-241: Introduction to Publication Layout and Design  
This class introduces students to the theories and practices of designing various forms of media. Students will learn how to use computers and programs necessary to create newspapers and a basic news website. In doing so, students will learn how to prioritize and organize the news in several different forms. Prerequisite: EN-101

CO-310: Television Production I  
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.

CO-312: Film Production I  
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. Student must have completed CO-210, CO-212, CO-217 and CO-219 or have permission of the instructor to register for this course.

CO-317: The Movie Industry  
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. Student must have completed CO-210, CO-212, CO-217 and CO-219 or have permission of the instructor to register for this course.

CO-319: Screenwriting I  
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.

CG-106: Design, Type and Color  
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. Student must possess college-level English competency to enroll in this course.

CG-115: Foundations of Computer Graphic Arts  
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. Student must possess college-level English competency to enroll in this course.

CG-118: Introduction to Animation  
In this course, students will learn to use the five primary media types (text, graphics, sound, animations, and video) to create dynamic and visually rich games and interactive products. The focus of the course will be game/interactive media theory, basics of animation, and correct preparation of text and graphics in game/interactive authoring tools. Practical real projects, completed in a computer lab setting, will be created to support student learning. Prerequisite: CG 106

CG-121: Introduction to Electronic Publishing and Typography  
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. Student must have successfully completed CG-115 Foundation of Computer Graphic Arts to enroll in this course.

CG-130: Video and Audio Editing  
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 understand how to export video and audio for different uses. Student must have successfully completed CG-106 prior to registering for this course.

CG-212: Screen Graphics  
This course provides instruction on the 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. Student must successfully complete CG-106 Design, Type & Color, in order to enroll in this course.

CG-215: Electronic Illustration I  
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 use of the basic menus, commands and tools of electronic illustration software. Student must have successfully passed CG-115 The Foundations of Computer Graphic Arts to enroll in this course.
CG-217: Electronic Image Processing  
This course introduces the use of imaging 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. Student must successfully pass CG-106 Design, Type & Color and AR-131 Introduction to Digital Photography in order to enroll in this course.

CG-218: Game and Interactive Authoring  
This course introduces advanced techniques for authoring games and interactive design projects. Students learn advanced tools and begin to use professional design tools to design prototype games and interactive products and apply interface design principles. Students utilize a computer lab setting to complete projects that demonstrate the use of the skills and techniques learned in this class. Prerequisite: CG 106 & CG 118.

CG-219: Web Design  
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. Student must have successfully completed CG-106 and CG-212 prior to registering for this course.

CG-220: Advanced Electronic Publishing  
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. Students must have successfully completed CG-121 Introduction to Electronic Publishing and Typography to enroll in this course.

COMPUTER SCIENCE

CS-101: Introduction to Microcomputers  
(3.00 cr.)  
Designed for students with an understanding of computers. This course will introduce Windows file management. Students will work with word processing, spreadsheets and presentation software. GEN ED: T Prerequisite: EN-060 (Required, Previous or concurrent).

CS-102: Applications on Microcomputer  
(3.00 cr.)  
Covers the more advanced applications of word processing and spreadsheets that are not covered in CS 101 as well as database software. The integration of application software will also be covered. GEN ED: T Prerequisite: CS-101; placement by computer skills inventory assessment or permission of the instructor.

CS-110: Technology Literacy  
(2.00 cr.)  
This course will focus on ethical, social, and security issues stemming from the use of computers in society. This course will stress ethical decision-making and social responsibility in connection with technology-related concerns. Issues such as security, crime, privacy, intellectual property, and social media will be examined in the context of computer use. Internet browsing, researching, and keyboarding skills will also be introduced and refined.

CS-111: Computer Science I  
(4.00 cr.)  
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.

CS-112: Computer Science II  
(4.00 cr.)  
Introduces students to structured programming and problem solving using an object-oriented programming language. Algorithm development and basic problem solving techniques are introduced. Fundamental topics of computer programming including sequence, selection, repetition, input/output, functions, parameter passing, scope, lifetime, and arrays are discussed in detail. Prerequisite: CS-111; or permission of instructor

CS-113: Introduction to Computers  
(4.00 cr.)  
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. Student must have successfully completed EN-060 prior to registering for this class.

CS-114: Fundamentals of Programming  
(4.00 cr.)  
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 applications using Python. Key programming concepts include how to work with various controls, as well as, how to create and manipulate variables, constants, sequential access files and arrays. Graphical User Interface design skills are also covered. Students will be able to develop a variety of business-related programming applications. Student must successfully complete EN-060 prior to registering for this course.

CS-119: Spreadsheets - Excel  
(4.00 cr.)  
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. Student must successfully pass EN-060 Introduction to College Reading.

CS-132: Web Page Development I  
(4.00 cr.)  
Introduces the student to the fundamental concepts and techniques used for the design and development of Web pages using Hyper Text Markup Language (HTML), XHTML, Cascading Styles Sheets, JavaScripting, Common Gateway Interface (CGI), and other multimedia Web utilities.

CS-156: Web Development - HTML/CSS  
(4.00 cr.)  
This course presents the concepts and techniques used in the design, development, and testing of web pages created with HyperText 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.

CS-157: Advanced Web Development  
(3.00 cr.)  
This course presents the process of designing and developing websites 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. Student must successfully pass CS-156 Web Development - HTML/CSS prior to registering for this course.

CS-170: PC Support & Services  
(4.00 cr.)  
Provides students with the technical training and diagnostic skills required to support PC technology in a multi-faceted environment including operating systems essentials, troubleshooting, hardware installation and configuration, printer diagnostics and troubleshooting, and an overview of local area networks. During hands-on lab instruction, students are teamed in small work groups to Prerequisite: apart and rebuild a PC. Prerequisite: rd-100 and en-100 or en-060
CS-203: Assembly Language and Computer Organization (4.00 cr.)
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. All lecture topics are supported by a lab component. Prerequisite: CS 111 – Computer Science I or high school programming course with permission from instructor.

CS-207: Management Information Systems (3.00 cr.)
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 business software tools applied to business data analysis and database management as well as business process execution. Students must successfully pass AC-103 and CS-113 prior to registering for this course.

CS-210: Database Management (4.00 cr.)
This course introduces students to the fundamentals of databases and data analysis, emphasizing that the key to successful database implementation is in proper design to fit within a larger strategic view of the data environment. Students will learn to analyze and model data (i.e., design), then create and utilize a database. Students will use SQL as a query language, along with other database management tools. The labs, projects and exercises incorporate real-world business cases to help students develop database and systems analysis skills. Prerequisite: CS-112

CS-211: Relational Databases (4.00 cr.)
This course presents the fundamental concepts of database management systems. It covers the methods and procedures used in the 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. Student must successfully complete CS-113 Introduction to Computers prior to registering for this course.

CS-212: C++ Programming (4.00 cr.)
Emphasizes problem-solving strategies, analysis of algorithms, and the use of simple data structures to formulate object-oriented solutions to problems. Topics include construction, inheritance, polymorphism, standard libraries, arrays, pointers and strings. Object-oriented concepts and terminology will be presented with a focus on using classes for program specification and design. Students will learn how classes are declared, defined, used and organized into coherent designs. Prerequisite: CS-112; or permission from the instructor.

CS-216: Intermediate Java (4.00 cr.)
This course is primarily for students majoring in Computer Science and related fields, and continues an introduction to the methodology of programming from an object-oriented perspective. Students will develop programs using built-in, programmer-created, and dynamic data structures. Sorting and search algorithms will be examined to further develop understanding and skills in Java programming. Topics include inheritance, class hierarchy, polymorphism, and abstract and interface classes. The course emphasizes good software engineering principles and fostering intermediate programming skills in the context of a language that supports the object-oriented paradigm. Prerequisite: CS-112; or permission of the instructor.

CS-217: Introduction to Networks (4.00 cr.)
Covers the fundamentals of network design and implementation, including cables and devices, widely used network protocols, and features and performances of network operating systems. The focus is on entry-level network support in a multi-level environment.

CS-222: Intro to Android Programming Java (4.00 cr.)
This course will introduce beginner and intermediate Java programming students to programming applications for Android devices such as cell phones and tablet computers. Students will use an Integrated Development environment such as Eclipse to develop simple java applications. The class will explore a variety of development strategies, then explore concepts in hands-on laboratory sessions. Each student will complete an application development project independently using a mix of Android services and features. Prerequisite: CS-112; or permission of instructor

CS-224: IT Help Desk/Technical Support (3.00 cr.)
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. Student must successfully complete CS-113 Introduction to Computers prior to registering for this course.

CS-226: Network Infrastructure Implementation (4.00 cr.)
Prepares the student for installing, configuring, managing and supporting a network infrastructure that uses the Microsoft Windows Server family of products. Prerequisite: CS-275

CS-228: Active Directory Design & Implementation (4.00 cr.)
Students are introduced to the principles of Active Directory structure, administration, configuration and maintenance. Prerequisite: cs-275

CS-229: Linux Installation (3.00 cr.)
Prepares the student to configure Linux compatible hardware components, select and install a Linux distribution and to configure the Linux software system certification exam 3X0-101 (Installation and Configuration - Level 1). Prerequisite: RD-100 and EN-100 and CS-170 or en-060 and cs-170

CS-232: Data Structures and Algorithm (4.00 cr.)
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. Student must successfully complete CS-212 C++ prior to registering for this course.

CS-233: Routing & Switching Essentials (4.00 cr.)
This course focuses on initial router configuration, IOS software management, routing protocol configuration, TCP/IP, and explains the principles of routing and the primary routing protocols. Prerequisite: CS-217

CS-234: Scaling Networks (4.00 cr.)
This course provides a comprehensive, theoretical, and practical approach to learning the technologies and protocols needed to design and implement a converged switched network. Students learn about the hierarchical network design model and how to select devices for each layer. The course explains how to configure a switch for basic functionality and how to implement Virtual LANs, VTP, and Inter-VLAN routing in a converged network. The different implementations of Spanning Tree Protocol in a converged network are presented, and students develop the knowledge and skills necessary to implement a WLAN in a small-to-medium network. Prerequisite: CS-233
CS-236: Cloud+ (4.00 cr.)
Cloud+ provides an in-depth knowledge of cloud computing and is intended to serve the needs of students and professionals who are interested in mastering the fundamentals of cloud computing concepts, networking, and security principles. Students learn to evaluate, select, and implement different cloud options within an organization. Student must successfully complete CS-217 Introduction to Networks prior to registering for this course.

CS-240: Security + (3.00 cr.)
Provides students with a comprehensive overview of network security. The course covers the general security concepts; communication security, information security, cryptography basics, and operational/organizational security are explored in how it relates to further avenues of specialization. Prerequisite: CS-217

CS-241: Computer Forensics (3.00 cr.)
Fundamentals of computer forensics and cybercrime scene analysis including laws, regulations, and international standards; formal methodology for conducting security incident investigations; categories of electronic evidence. The course includes projects involving digital forensic tools. Prerequisite: CS-101

CS-242: Principles of Info Security (3.00 cr.)
Examines the field of information security to prepare information systems students for their future 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. Prerequisite: rd-100 and en-100 or en-060

CS-256: Web Programming (3.00 cr.)
This course presents the fundamentals of creating real-world Web applications using JavaScript. The course provides hands-on experience in detailed coverage of foundation concepts of programming, such as objects, properties, events, expressions, arrays, loops and conditional statements. Student must successfully pass CS-114 Fundamentals of Programming and CS-156 Web Development HTML/CSS in order to register for this course.

CS-264: Database Application Dev. (3.00 cr.)
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. Student must successfully complete CS-156 Web Development · HTML/CSS and CS-211 Relational Databases prior to registering for this course.

CS-265: Ethical Hacking (4.00 cr.)
Ethical hacking is a broad term that covers all hacking methodologies, techniques, and strategies associated with computer systems and network targeted attack. The primary goal is to discover the security weaknesses and vulnerabilities, and to address the security of the system/network before or after malicious attacks. Students will learn good problem-solving and ethical hacking strategies by understanding how network defenses work by scanning and attacking the network, and securing the system. Prerequisite: CS-240

CS-275: Core Server Op System (4.00 cr.)
Prepares the student to install and configure Windows Server to create file, print, Web, and Terminal servers. Through hands-on lab instruction, students will learn about installation, access to resources, managing and troubleshooting hardware devices and drivers, network protocols, and security. Prerequisite: CS-170 or CS-175

CS-337: Applied Database Technologies (3.00 cr.)
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.

CONSTRUCTION MANAGEMENT

CM-214: Proj Mgmt: Plan & Schedule (3.00 cr.)
This course will focus on the planning and scheduling portion of the project life-cycle. Students will learn techniques for planning a project including identifying resources, assigning controls and creating structures. Critical path methods will be utilized as well as computer simulation.

CM-216: Const Contract & Labor Law (3.00 cr.)
Learn the legal areas of construction labor contracts, project contracts NLRL regulations, employment laws, arbitration litigation, benefits and insurance requirements as related to construction labor disputes.

CRIMINAL JUSTICE

CJ-102: Introduction to Criminology (3.00 cr.)
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. Student must successfully complete SO-201 Intro to Sociology or SO-202 Contemporary Social Problems prior to registering for this course.

CJ-103: Introduction to Security (3.00 cr.)
This course introduces the systems, organization, design and implementation of security systems, including government, business, industry, and proprietary. Prerequisite: en-060

CJ-104: Criminal Law (3.00 cr.)
A comprehensive study and evaluation of the purpose of criminal law, statutory definitions of crimes, criminal law responsibility. Prerequisite: EN-060

CJ-106: Intro to Criminal Justice (3.00 cr.)
This introduction provides an overview of the three major components of the criminal justice system: the police, courts and corrections. It surveys the criminal justice process from initial law enforcement contact through the judicial and correctional phases. In addition to an examination of the roles of the police, courts and corrections, the professional and career opportunities in the criminal justice field will also explored. Student must have successfully passed EN 060 - Introduction to College Reading and English II or have attained college-level English proficiency prior to registering for this class.

CJ-107: Intro Emer Mgmt & Homeland Sec (3.00 cr.)
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. Student must be at college level English prior to registering for this course.

CJ-108: Planning for Emergencies (3.00 cr.)
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. Prerequisite: EN-060

CJ-111: Constnl Iss. in Criminal Law (3.00 cr.)
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, wiretapping and admissibility of evidence at trial. Student must be a college-level English in order to register for this course.
CJ-115: Diversity Issues in CJ (3.00 cr.)
A critical examination of race, gender, and other diversity issues in the development, organization and operation of the U.S. criminal justice system. Prerequisite: EN-060

CJ-120: Cybercrime (3.00 cr.)
Provides a broad overview of information security and introduces the student to the history, terminology, concepts and management of technology security and cybercrimes in an increasingly interconnected digital world. Prerequisite: EN-060

CJ-130: Intro to Emergency Management (3.00 cr.)
Provides an overview of the fundamental planning requirements for emergency management of various hazards including terrorism, floods, hurricanes and other natural disasters. Prerequisite: EN-060

CJ-141: Criminal Justice Leadership (3.00 cr.)
An academic approach to the concepts and theory in the study of supervision and leadership as they relate to individuals, groups, leaders and organizations. Prerequisite: EN-060

CJ-202: Police Organ. & Admin. (3.00 cr.)
An examination and comparative analysis of the nature of police organizations and the related concepts of leadership and administration. Prerequisite: EN-060

CJ-205: Criminal Investigation (3.00 cr.)
An examination of the techniques of criminal investigation and investigative strategies in conjunction with legal responsibilities and controls that govern police investigations. Prerequisite: EN-060

CJ-206: Terrorism (3.00 cr.)
A survey of domestic and international terrorism in historical and comparative contexts. Emphasis is on defining types of terrorism, motivation for terrorism, the role of ideology, and threats against democratic processes. Prerequisite: EN-060

CJ-207: The Admin of Justice (3.00 cr.)
This is a study of legal concepts and procedures from the time of arrest to the time of release, or appeal, from conviction of crime. It focuses on trials, indictments, information, bail, grand juries, and petit juries. Student must be at college-level English in order to register for this class.

CJ-209: Criminalistics (3.00 cr.)
A descriptive presentation of forensic science practices, focusing on how enforcement practitioners examine crime scenes to identify, collect and preserve physical evidence. Prerequisite: EN-060

CJ-211: Institutional Treat. Offender (3.00 cr.)
A survey of the historical and contemporary treatment of convicted offenders in various types of correctional institutions. Prerequisite: EN-060

CJ-212: Principle of Corrections (3.00 cr.)
An introduction to the practices and policies governing correctional systems and an analysis of the theory and practice of correctional programs. Prerequisite: EN-060

CJ-213: Criminal Psychopathology (3.00 cr.)
An application of contemporary theories of and treatments for criminal psychopathological behavior. Prerequisite: PY-101

CJ-214: Correct Counseling & Interview (3.00 cr.)
An overview of the theories and interviewing methods used for counseling in a variety of correctional settings. Prerequisite: PY-101

CJ-215: Criminal Justice Field Work (3.00 cr.)
Supervised field experience in a range of agencies related to law enforcement. Prerequisite: CJ-207 PA-101 CJ-104 and CJ-115;

CJ-216: Crime Analysis & Mapping (3.00 cr.)
Overview of and hands-on experience in determining the significant features of crime pattern analysis including mapping and the interpretation of data. Prerequisite: EN-060

CJ-218: Victimology (3.00 cr.)
A study of victimization, including the relationships between victims and offenders, the interactions between victims and the criminal justice system, and the connections between victims and other societal groups and institutions. Prerequisite: EN-060

CJ-220: Youth, Gangs & Violence (3.00 cr.)
A study of courses and consequences of youth violence and gang behavior in the United States. The course will explore community service programs and gang activities. Prerequisite: CJ-207

CJ-222: Incident Cmnd: Theory & Pract (3.00 cr.)
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. Student must Prerequisite: CJ-107 Intro to Emergency Mgmt. either prior to or at the same time as taking this course. (Required, Previous or concurrent).

CJ-223: Global Catastrophes (3.00 cr.)
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 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. Student must successfully complete CJ-108 Planning for Emergencies either prior to or at the same time as registering for this course. (Required, Previous or concurrent).

CJ-238: Crime on the Internet (3.00 cr.)
This course examines the Internet as a new crime environment for the 21st Century. Investigation and prosecution of computer crime, as well as security issues are studied. Student must have successfully passed EN 060 - Introduction to College Reading and English II or have attained college-level English proficiency prior to registering for this class.

CJ-300: Critical Infrastructure (3.00 cr.)
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 assessment and management, contingency planning, training and exercises, the role of crisis management team, crisis communication, and public and private sector roles and relationships in emergency management. Student must successfully complete CJ-222 prior to registering for this course.

CJ-301: Drug & Crime in America (3.00 cr.)
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. Student must successfully pass EN-102 English Composition II prior to registering for this course.
CJ-304: Natural & Technological Hazard (3.00 cr.)
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 mitigation 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. Student must successfully complete CJ-222 prior to registering for this course.

CJ-305: Counsel & Guidance of Offender (3.00 cr.)
This course is a survey of the basic principles and techniques of counseling offenders, including interviewing, case conferences, case histories, individual and group counseling, classification procedures, and team treatment participation. Student must have successfully completed EN-102 English Composition II prior to registering for this class.

CJ-308: Theories of Crime & Criminal (3.0 cr.)
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. Student must successfully pass EN-102 English Composition II prior to registering for this class.

CJ-309: Emergcy Operations & Busn Cont (3.00 cr.)
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. Student must successfully complete CJ-222 prior to registering for this course.

ECONOMICS

EC-103: Introduction to Economics (3.00 cr.)
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. EC-103 does not satisfy requirements for a Business major. Prerequisite: EN-060

EC-201: Principles of Economics I (Macro) (3.00 cr.)
A study of the American economic system with emphasis on macroeconomics. Topics studied include the laws of supply and demand, the functioning of the price system, the theory of national income determination, and the role of monetary and fiscal policies in combating the problems of inflation and recession. Prerequisite: MA-105 or MA-149

EC-202: Principles of Economics II (Micro) (3.00 cr.)
A continuation of EC-201 with emphasis on microeconomics. Consideration is given to the concepts of elasticity, costs of production, the theory of the firm, wage determination, and the international economy. Prerequisite: MA-105 or MA-149

EDUCATION – EARLY CHILDHOOD

ED-103: Infant & Toddler Curr. & Dev. (3.00 cr.)
Study of the growth and development of children from birth through three, emphasizing the importance of attachment, guidance, temperament and personality, and providing a nurturing and appropriate environment. Prerequisite: ED-106 and PY-115

ED-105: Intro. to Special Education (3.00 cr.)
An overview of the field of special education, the historical background, and laws governing the process, with an introduction to the various types of disabilities included in the field. Prerequisite: EN-060 and ED-106 and PY-115

ED-106: Principles of Early Child. Ed. (3.00 cr.)
Acquaints students entering the field of Early Childhood Education with the role and dispositions of the teacher, the contributing factors in quality care and developmentally appropriate practices, the role and stages of play, and the historical foundations and principles in educating young children. Prerequisite: EN-060 (Recommended, Previous). | Prerequisite: PY-115 (Recommended, Previous or concurrent).

ED-110: Infant/Toddler Mental Health (3.00 cr.)
This course deals with the exploration of the essential elements involved in setting the foundation for the mental health and social-emotional development of infants and toddlers. Topics are supported with research-based curriculum on brain development, attachment theories, temperament and curriculum. This course examines the importance of identifying and meeting social/emotional needs and how these needs relate to the caregiver’s interactive process with infants, toddlers and their families. A specific focus will be applied to developmentally appropriate practices and techniques in the childcare setting that influence the beginning of identity formation and a creative life experience. Prerequisite: ED-106 and PY-115

ED-201: Math, Sci. & Tech. in ECE (3.00 cr.)
An examination of basic math and science concepts with emphasis on problem-solving and logical thinking, designing units of study, and using technology in the classroom. Prerequisite: ED-106 and PY-115

ED-203: Lang. Dev. & Emerg. Literacy (3.00 cr.)
A study of language development and methods for teaching listening, speaking, emergent reading and writing skills; phonemic awareness and balanced literacy programs for preschoolers; activities that enhance language and literacy development; and strategies that assist children in acquiring a second language. Prerequisite: ED-106 and PY-115

ED-204: Creative Learning Experiences (3.00 cr.)
A study of various art and music media leading to the preparation of integrated lessons and curricula that foster creativity, active learning, and problem solving through the arts. Prerequisite: ED-106 and PY-115

ED-205: Pre-School Classroom Mgmt. (3.00 cr.)
An examination of a variation of positive guidance techniques designed to enhance the preschool teacher’s ability to effectively manage behavior and teach social skills and conflict resolution. Prerequisite: ED-106 and PY-115

ED-209: Child Health, Safety & Nut. (3.00 cr.)
An exploration of ways to provide a safe, appropriate environment for children, develop awareness of children’s health and nutritional needs, and collaborate with parents to expand health, safety and nutritional information and practices. Prerequisite: ED-106 and PY-115
ED-212: Books & Storytelling in ECE (3.00 cr.)
A survey of children's literature books to prepare students to select appropriate books for use in early childhood classrooms. Includes strategies for designing balanced and integrated lessons to teach content areas. Prerequisite: ED-106 and ED-203 and PY-115

ED-219: Infant/Toddler Field Exp. (3.00 cr.)
This course is part of the Infant/Toddler credential and is intended for use by professionals and paraprofessionals working in the field of infant/toddler care in all settings, including center-based care, family child care programs, and in community based programs that support infant, toddlers and their families. Through a combination of classroom instruction (2 credit hours) and field experience (1 credit hour) students will have the opportunity to apply new skills and strategies in the Infant/Toddler classroom. A college instructor will provide on-site supervision throughout the field experience that will coordinate with supplemental instruction in the college classroom. Prerequisite: ED-106 and PY-115 and ED-103

ED-290: Early Childhood Professional (3.00 cr.)
This course focuses on the early childhood profession including awareness of value issues and ethical issues in working with children and their families, legal issues, staff relations and the importance of becoming an advocate for upgrading the profession and improving the services for children. Prerequisite: ED-106 and ED-201 and ED-203 and ED-205 and PY-115 | Prerequisite: ED-212 (Required, Previous or concurrent).

ED-101: Historical Found. of Education (3.00 cr.)
A historical and contemporary study of education theory and the goals and structure of public schools in relation to their social purpose. Prerequisite: EN-060

EG-101: Intro to Engineering I (2.00 cr.)
Introduces the engineering student to a variety of programs and concepts in various fields of engineering. The course will deal with basic computation techniques, problem solving and experimentation. Lecture (30.00); Lab (30.00)

EG-102: Engineering Graphics (2.00 cr.)
Provides the fundamental principles of engineering drawing, fundamental principles of descriptive geometry, graphical mathematics, and CAD. Lecture (30.00), Lab (30.00) Student must have successfully completed EN-060 prior to registering for this course.

EG-103: Intro to Engineering Lab I (2.00 cr.)
Students will participate in small groups to carry out a series of basic engineering experiments. In addition to the experiments, each group will be assigned a specific project and/or a reverse engineering project. The only examination given in the course is during the final week of the semester and will be used in conjunction with the laboratory reports and the term project as a basis for evaluation of student performance. The experiments are scheduled on a round-robin basis and each group performs all four experiments scheduled for this semester. Laboratory reports are due two weeks after the completion of each experiment and is to be submitted as a group report. A term project will be assigned to each group for which a final report is to be prepared by the group and submitted at the end of the semester. Corequisite: MA 120 or MA 121. Lab (60.00) Student must either register for either MA-120 or MA-121 at the same time as registering for this course or have already completed MA-120 or MA-121 prior to registering for this course. (Required, Previous or concurrent).

EG-103: Intro to Engineering Lab I (2.00 cr.)
Students will participate in small groups to carry out a series of basic engineering experiments. In addition to the experiments, each group will be assigned a specific project and/or a reverse engineering project. The only examination given in the course is during the final week of the semester and will be used in conjunction with the laboratory reports and the term project as a basis for evaluation of student performance. The experiments are scheduled on a round-robin basis and each group performs all four experiments scheduled for this semester. Laboratory reports are due two weeks after the completion of each experiment and is to be submitted as a group report. A term project will be assigned to each group for which a final report is to be prepared by the group and submitted at the end of the semester. Corequisite: MA 120 or MA 121. Lab (60.00) Student must either register for either MA-120 or MA-121 at the same time as registering for this course or have already completed MA-120 or MA-121 prior to registering for this course. (Required, Previous or concurrent).

EG-103: Intro to Engineering Lab I (2.00 cr.)
Students will participate in small groups to carry out a series of basic engineering experiments. In addition to the experiments, each group will be assigned a specific project and/or a reverse engineering project. The only examination given in the course is during the final week of the semester and will be used in conjunction with the laboratory reports and the term project as a basis for evaluation of student performance. The experiments are scheduled on a round-robin basis and each group performs all four experiments scheduled for this semester. Laboratory reports are due two weeks after the completion of each experiment and is to be submitted as a group report. A term project will be assigned to each group for which a final report is to be prepared by the group and submitted at the end of the semester. Corequisite: MA 120 or MA 121. Lab (60.00) Student must either register for either MA-120 or MA-121 at the same time as registering for this course or have already completed MA-120 or MA-121 prior to registering for this course. (Required, Previous or concurrent).

EG-121: Digital Electronics for Eng. (3.00 cr.)
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. Prerequisite: MA 120 or MA 121. Lecture (30.00); Lab (30.00) Prerequisite: MA120 or MA121 or MA130

EG-122: Electronics for Engineers (3.00 cr.)
The basic concepts in electronics will be covered to include passive and active electronic components, diodes and transistors, power supply analysis and design, transistor amplifier analysis and design, transistor oscillators analysis and design, operational amplifier analysis and design, and basic integrated circuits. Completion of a term project will be required. Prerequisites: MA 120 or MA 121. Prerequisite: MA-120 or MA-121 or MA-130

EG 200: MATLAB Programming (3.00 cr)
This course is an introductory course to the main features of MATLAB and its application to engineering and scientific problem-solving. MATLAB excels at computations involving matrices which are used extensively in many engineering disciplines. Topics include an introduction to programming in MATLAB, including matrix operations, functions, arrays, loops and selection structures, working with data files and plotting. Students can apply knowledge to learning other programming languages, such as C, C++, and Pascal as well as use MATLAB as a tool in their other engineering classes. All lecture topics are supported by a lab component. Prerequisite: EG 101

EG 201: Statics (3.00 cr)
Covers vector calculations of forces, moments, and the equilibrium of particles and rigid bodies, centroids and moments of inertia. Student must either register for MA-130 Calculus I at the same time as taking this course or have successfully completed MA-130 prior to registering for this course. (Required, Previous or concurrent).

EG 202: Dynamics (3.00 cr)
Covers kinematics and kinetics, the work energy principle, impulse and momentum, rigid body motion. Student must have successfully completed EG-201 Statics prior to registering for this course.

EG 203: Strength of Materials (3.00 cr)
EG 203 is a follow-on from Statics. It introduces students to the properties and behavior of various materials under certain conditions. These conditions include tension, compression, torsion, bending and loading using fundamental stress, strain, elastic and inelasticity. Student must Prerequisite: EG-201 Statics prior to registering for this course.
EG-211: Intro to Engineering II (1.00 cr.)
A continuation of "Introduction to Engineering I" course (EG-101) in which advanced methods in data and statistical analysis will be used to produce legible and concise written reports in some basic engineering case studies. A required final oral presentation will complement the course requirement. Student must successfully complete EG-101 and EG-103 prior to registering for this course.

EG-212: Intro to Engineering II Lab (1.00 cr.)
A continuation of "Introduction to Engineering Lab I" course (EG-103), in which research-based experiments in basic engineering will be performed. Auto CAD will be used to design a project. A CNC machine and 3-D printer will be used to prototype students' designs. Prerequisite: EG 103. Lab (30.00) Prerequisite: EG 103

EG-213: Prin of Elec Circuit Analysis (4.00 cr.)
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. Student must have successfully passed PI-142 General Physics II and MA-130 Calculus I or IT 107 Circuits I in order to register for this class.

ENGINEERING TECHNOLOGY

IT-102: Fund Eng Tech Design (3.00 cr.)
This course covers fundamentals in drafting techniques, graphics, computer-aided design and manufacturing. Students will gain a foundation in CAD and also get an introduction to manufacturing models and cutter location data using CAD/CAM software as AutoDesk Fusion 360 and Pro/E. This will prepare students for advanced engineering tech design and CNC programming. Prerequisite: rd-100 and en-100 and ma-094

IT-105: Blueprint Reading/Sketching (2.00 cr.)
Students learn the technical information and methods of blueprint construction and interpretation, sketches and prints that are necessary to visualize various manufacturing and fabricating processes, and standard drafting techniques. Students must successfully pass EN-060 and MA-091 prior to entering this course.

IT-107: Circuits I (3.00 cr.)
Students learn the concepts of DC theory, single phase AC and three phase AC, ladder diagrams and components found in an industrial electrical circuit. In the laboratory students will develop the necessary skills to use a meter to troubleshoot an electrical circuit. Student must have successfully completed EN-060 and MA-094 in order to be eligible to register for this course.

IT-111: Electronics (4.00 cr.)
A study of semi-conductor devices and applications. Diodes, transistors, mosfets, FET Transistors and UJT Transistors, SCR's and Tri AC's are analyzed. Student must have successfully completed IT 107 or PI 124 prior to registering for this course.

IT-116: Workplace Ethics (1.00 cr.)
Students study human relations and professional development that exists in today's rapidly changing world so that they become better prepared for living and working in a complex society. Topics include co-worker mindfulness, timeliness, human relations, job acquisition, job retention, job advancement and professional image skills.

IT-118: Tools and Measurement (1.00 cr.)
Tools and Measurement introduces basic measurement, precision measurement tools, and dimensional gauging. Learners will cover concepts such as S.I. Measurement, U.S. Customary Measurements, Tape Measure and Measurement Conversion. Applications taught include using a dial caliper, digital caliper, English micrometer, and metric micrometer. Dimensional Gauging will include an introduction to gauging as well as indicator measurement and data collection. This course provides an overview of a broad range of basic concepts in measurement including how to use precision tools and learning about dimensional gauging concepts.

IT-160: CNC Programming (4.00 cr.)
This course is a study of the capabilities, programming procedures, advantages, and disadvantages of numerical control (N/C) and computerized numerical control (CNC) metalworking machine tools. Manual methods for generating, debugging, and running point-to-point and continuous path programs including linear and circular interpolation, canned cycles, loops, and subroutines to produce work pieces of increasing complexity. All lecture topics are supported by a lab component. Prerequisite EG 102

IT-162: Quality Control (3.00 cr.)
Introduces the student to the key national and international standards used in quality management systems. Students learn to evaluate and audit the conformance of business and manufacturing quality systems to these major standards. Student must have successfully completed EN-060 and MA-094 in order to be eligible to register for this course.

IT-205: Digital Electronics (3.00 cr.)
Provides students with information and experience on integrated circuits which are used in analyzing and storing data. Student must either Prerequisite: MA-110 at the same time as this course or have successfully completed MA-110 prior to registering for this course. (Required, Previous or concurrent).

IT-211: Adv Engineering Tech Design (3.00 cr.)
Offers intermediate CAD drawing which will include working detail and assembly drawings of machines, machine components, elementary gear and cam design, as well as 3D solid models. Student is required to Prerequisite: EG-102 prior to entering this course.

IT-212: CAD III (3.00 cr.)
This course emphasizes advanced CAD drawings, 3-D solid models, and rendering which incorporates a capstone project. This course promotes self paced learning and synthesis of skills previously applied in CAD I and CAD II. Students will demonstrate mastery and proficiency in Computer Aided Drafting & Design techniques. Prerequisite: it-211

IT-218: Programmable Logic Controller (3.00 cr.)
The Allen Bradley SLC 500 series PLC is used to provide students with an understanding of PLC programming.

IT-221: Fundamentals of Manufacturing (4.00 cr.)
A study of selected materials and related processes used in manufacturing including plastics and metals. Student must have successfully completed IT-102 or EG-102 prior to registering for this course.

IT-223: Statics for Technology (3.00 cr.)
Provides an understanding of equilibrium of particles and rigid bodies subject to concentrated and distributed forces. Upon successful completion of this course, the students should be able to analyze problems involving the equilibrium of particles and rigid bodies, including simple machines, trusses, and frictional forces. Prerequisite: MA 120 Trigonometry
IT-224: Dynamics for Technology (3.00 cr.)
Provides an understanding of the mathematics of the motion of particles and rigid bodies, and the relation of forces and motion of particles. Upon successful completion of this course, the students should be able to describe the motion of particles and rigid bodies as functions of time and position, develop their equations of motions due to applied forces, and determine post impact behavior. Prerequisite: IT-223 Statics for Technology

IT-227: Circuits II (3.00 cr.)
This second course in Electrical Circuits expands on Circuit Theory introduced in IT 107. It includes Ohm's and Kirchhoff's Laws for analysis of series and parallel AC circuits. Series-parallel, ladder and bridge networks are analyzed using AC signals. Resonance and frequency response are included. The basic theory and operation of diodes and transistors, including dc biasing are studied. Circuit simulation and laboratory experiments are designed to support the theory and obtain measurement skills and an understanding of the mathematics of the motion of particles and rigid bodies, and the relation of forces and motion of particles. Upon successful completion of this course, the students should be able to describe the motion of particles and rigid bodies as functions of time and position, develop their equations of motions due to applied forces, and determine post impact behavior. Student must have successfully completed IT 107 Circuits I prior to registering for this course.

IT-228: Eng Tech Internship (3.00 cr.)
An internship is an integral part of engineering education. It provides real world experience in the profession; Enables correlation of class room learning with its application in industry; Broadens understanding of the types of employment available in the field; Helps students discover their individual interests; Builds resume credentials for the students; and develops relationships between Cumberland County College and local Industrial firms. Prerequisite: EG-101 Introduction to Engineering or receive permission of the instructor.

IT-240: Pneumatic & Hydraulic Automata (4.00 cr.)
Hydraulic principles, types of hydraulic fluids and their characteristics are covered. Describes components of the hydraulic system and their functions, including filters and strainers, reservoirs and accumulators, pumps, piping, tubing and hoses, control valves and actuating devices. Covers a variety of operating principles of reciprocating, positive displacement, rotary and dynamic air compressors. Covers primary and secondary air treatment. Includes valves, logic devices, cylinders and air motors. Pre-requisite: IT 218 Programmable Logic Controllers. Student must have successfully completed IT-218 Programming Logic Controls in order to register for this course.

IT-241: Robotics and Motion Control (4.00 cr.)
A study of the basics of industrial automation systems especially flexible manufacturing. Students gain an understanding of both industrial and commercial robotics technology including sensors and sensors. Student must successfully complete IT-211 prior to registering for this course.

IT-241: Robotics and Motion Control (3.00 cr.)
A study of the basics of industrial automation systems especially flexible manufacturing. Students gain an understanding of both industrial and commercial robotics technology including sensors. Laboratory work supports lecture topics. Student must successfully complete IT-211 Advanced Engineering Tech Design or CS-212 C++ Programming prior to registering for this course.

IT-242: Advanced PLC (3.00 cr.)
Use of programmable controllers and computers in factory automation. Topics include process control, supervisory software, PLC networking, PLC/CNC integration, device configuration, use of programming software and PLC language standards. Student must have completed IT-218 Programmable Logic Controllers

IT-243: Drone Applications (3.00 cr.)
A first course in unmanned aerial vehicles (UAVs), aka “drones”, and the technologies involved in their operation. Coverage includes UAV components, command and control (C2) communication systems, basics of flight, regulatory agencies and regulations, safety and societal considerations. Laboratory activities provide opportunity for students to gain hands-on experience in working with UAVs. Student must successfully complete IT-107 prior to taking this course.

IT-244: Instrumentation & Measurement (3.00 cr.)
This course provides students with necessary skills to conduct reliable measurements for engineering and technology practice using a variety of monitoring, engineering, and manufacturing instrumentation. Students will examine measurement errors, measurement uncertainty, and instrumentation limits on errors. Additionally, the course demonstrates the uses and testing methods of instrument transformers, operational amplifiers, rectifiers, filters, and oscillators. An instrumentation and measurement background provide the foundation needed to be effective in a wide range of application environments. Student must successfully complete MA-130 Calculus I or IT-130 or have permission of instructor to register for this course.

EN-050: Intro to College Read & Eng I (6.00 cr.)
Introduction to College Reading and English I is an intensive developmental course designed to provide students with the foundations needed for academic reading and writing. In this integrated reading and writing course, students develop a range of strategies for reading different kinds of texts and will practice the stages of the writing process with special focus given to sentence and paragraph organization and structure. This six credit class meets for seven hours each week: five hours in a traditional classroom and two in the Developmental Education Lab. Lecture (75.00), Lab (30.00)

EN-060: Intro to College Read & Eng II (4.00 cr.)
Reading and English II (4.00 cr) Introduction to College Reading and English II is an intensive developmental course designed to provide students with the foundations needed to achieve College and Career Readiness (CCR) in literacy, which includes both reading and writing. In this integrated course, students will develop and apply strategies for comprehension through reading literature and informational complex text. This course will also focus on textual support and evidence-based writing with special focus given to paragraph and essay development using the writing process. This four-credit class meets five hours each week: three hours in a traditional classroom and two hours in the Developmental Education Lab (A24). Prerequisite: EN 050 or appropriate score on placement test. Lecture (45.00), Lab (30.00) Prerequisite: EN-093 or EN-050

EN-070: English Comp I Workshop (1.00 cr.)
English Composition I Workshop is linked to English Composition I and is designed to enhance that course for students who need support in reading/writing. This course takes place in a computer lab where students are assisted in the learning process to improve reading and writing skills. The combined English Composition I and English Composition I Workshop sections allow students to work on English Composition I assignments with the guidance of their instructor. This one-credit class meets for two hours each week: one hour with instructor and one hour in with lab staff. Prerequisite: Completion of EN 050 or EN 060, and/or appropriate score on the placement test; Co-requisite: Each section of this course is linked to a single section of English 101. Lab (30.00) Prerequisite: en-060 or en-100 | Prerequisite: EN-101 (Required, Concurrent).
EN-101: English Composition I (3.00 cr.)
To develop and strengthen skills in writing through frequent and varied writing assignments. The course emphasizes organization of material, the structure of the English language, and many of the rhetorical devices that are used in persuasive writing. Modern computers are used in the lab portion of EN 101. Gen Ed: C Prerequisite: EN 100 and RD 100 or EN 060 | Student must Prerequisite: the matching EN-070 ALP section at the same time. (Required, Concurrent).

EN-102: English Composition II (3.00 cr.)
Provides a continued emphasis on writing skills in the critical explication of papers on poetry, short story, and drama with literary genres also providing the basis of a critical literary research project. Gen Ed: C Prerequisite: EN-101 and earn a C or higher

EN-103: Technical Writing (3.00 cr.)
Students will focus on aspects of technical communication both written and oral. This writing course will provide students with the basic skills and techniques necessary to write clear reports, proposals, abstracts, summaries, specifications and research documents, as well as delivering oral presentations. Gen Ed C Prerequisite: EN-101

EN-201: British Literature I (3.00 cr.)
A survey of the development of British literature from the Anglo-Saxon period through the Restoration as reflected in the major literary works. GEN ED: H Prerequisite: en-102

EN-202: British Literature II (3.00 cr.)
A survey of the development of British literature from the late 18th century through WWI as reflected in the major literary works. GEN ED: H Prerequisite: en-102

EN-204: Business Communication (3.00 cr.)
Offers a study of the fundamental principles of business letter and report writing in order to prepare the student to write effectively in the business environment. Prerequisite: EN-101;

EN-205: Masterpieces of Western Lit I (3.00 cr.)
Offers selected readings in Western Literature from ancient times to the Renaissance. This course focuses on relationships between literary works and their cultural backgrounds and examines relevance of each work to contemporary life. Students will apply critical thinking and writing skills developed in EN 102. GEN ED: H Prerequisite: en-102

EN-206: Masterpieces of Western Lit 2 (3.00 cr.)
Offers selected readings in western literature from the Renaissance to the late 20th century. This course focuses on relationships between literary works and their cultural and historical backgrounds and examines relevance of each work to contemporary life. Students will apply critical thinking and writing skills developed in EN 102. GEN ED: H Prerequisite: en-102

EN-208: Images of Women in Literature (3.00 cr.)
A course in which selected fiction, drama, poetry and prose are read and discussed and the images of women analyzed in relation to the cultural and historical background of the period in which they appear. Gen Ed: H/D Prerequisite: EN-102

EN-209: American Literature I (3.00 cr.)
A survey of the development of American Literature from the Colonial Period to the Civil War. GEN ED: H Prerequisite: EN-102

EN-210: American Literature II (3.00 cr.)
A survey of American Literature from the Civil War to the present. GEN ED: H Prerequisite: EN-102

EN-219: Modern American Lit (3.00 cr.)
A survey course of American literature from 1945 until the end of the century - the post-World War II period to the beginning of the Millennium. This course will examine the writings of the major literary figures whose writing reflected the times and influenced the minds of the American public in the areas of short story, poetry, and drama. GEN ED: H Prerequisite: EN-102

EN-221: Short Story (3.00 cr.)
This course offers a historical and/or thematic approach to the study of selected short stories, with emphasis on form, theory, and interpretation. Short stories are studied as a unique genre; students engage in advanced critical thinking and practice advanced writing skills initiated in EN 102. GEN ED: H Prerequisite: EN-102

EN-222: Drama (3.00 cr.)
Offers reading and discussion of plays selected for a historical survey of drama or for an in-depth examination of a particular period, movement, or playwright. Students are able to practice advanced writing and critical thinking skills initiated in EN 102. GEN ED: H Student must successfully complete EN-102 prior to registering for this course.

EN-223: Poetry (3.00 cr.)
Offers a historical or thematic approach to the study of selected poems with emphasis on forms, theories and interpretations. GEN ED: H Prerequisite: EN-102

EN-225: Intro to Latino Literature (3.00 cr.)
Designed to introduce students to a particular and important genre. The course intends to have the student survey and gain an appreciation of Latino novels, plays, poetry, and short stories by reading works that are timeless and important. Gen Ed.: H/D Prerequisite: EN-102

ENGLISH AS A SECOND LANGUAGE

EL-010: Listening & Speaking I (3.00 cr.)
This introductory level course provides instruction in basic academic listening and speaking skills. Students practice listening for main ideas and specific information, identifying stressed words and reductions, getting meaning from context, and speaking in many simple role-playing situations. (Students must possess a basic understanding of English to enter this course).

EL-015: Reading & Writing I (3.00 cr.)
This course provides instruction in basic academic reading and writing skills. Students practice identifying simple main ideas, classifying and organizing primary information, preparing short summaries, and using context clues to identify vocabulary meaning. Students will also practice writing simple topic sentences, placing written information in a logical order, using brainstorming and free-writing techniques to generate ideas, and creating short written outlines. (Students must possess a basic understanding of English to enter this course). Lecture (45.00)

EL-020: Listening & Speaking II (3.00 cr.)
This low-intermediate to intermediate level course builds on the listening and speaking skills introduced in EL 010. Students practice listening to academic lectures, taking effective notes, using intonation to understand meaning, distinguishing between vocabulary words with similar pronunciation, and communicating through debate and discussion. Prerequisite: EL-010

EL-025: Reading & Writing II (3.00 cr.)
Reading and writing skills. Students practice scanning written material for important information, skimming for main ideas, predicting reading content, understanding conclusions, making inferences, distinguishing facts from opinions, and reviewing vocabulary meaning. Students will also practice writing topic sentences of increased complexity, arranging written ideas in order of importance, editing and proofreading text for clarity, writing concluding sentences, adding details to a paragraph, and making comparisons. Completion of EL 015, and/or appropriate score on the placement test. Lecture (45.00) Completion of EL 025, and/or appropriate score on the placement test.

EL-030: Listening & Speaking III (3.00 cr.)
This high-intermediate level course builds upon the listening and speaking skills presented in EL 020. Students practice accurately pronouncing English words, using various spoken expressions and phrases, discussing main ideas in conversations, using “tag” questions to ask for information, and inferring meaning from spoken context clues. Prerequisite: EL-020
EL-035: Reading & Writing III  (3.00 cr.)
This high-intermediate level course provides continued instruction in reading and writing skills. It focuses on identifying main ideas; skimming and scanning written materials for information; defining vocabulary through the identification of word parts, such as synonyms, antonyms, and context clues; identifying supporting details; predicting events in a reading passage; identifying relationships between and within sentences and paragraphs; and understanding figurative language. The course also emphasizes developing proficiency with the variety of styles found in academic writing. Students will practice creating effective topic sentences; editing paragraphs and essays for coherence, unity, and organization; writing about cause/effect and comparison/contrast relationships; using quotations, paraphrasing, and sensory details to support opinions; and editing for coherence. Completion of EL 025, and/or appropriate score on the placement test. Lecture (45.00) Completion of EL 025, and/or appropriate score on the placement test.

EL-040: Listening & Speaking IV  (3.00 cr.)
This advanced level course is the culmination of the ESL listening and speaking curriculum. Successful completion of this course enables students to better comprehend college-level listening and speaking tasks. Students practice participating in discussions and debates, making speeches, using idiomatic expressions, and utilizing voice intonation and inflection. Prerequisite: EL-030

EL-045: Reading & Writing IV  (3.00 cr.)
This Advanced level course is the culmination of the ESL reading and writing curriculum. Successful completion of this course enables students to better complete college-level reading and writing tasks. Students practice composing paragraphs and essays, identifying grammatical structures in sentences, analyzing effective punctuation, and recalling appropriate vocabulary. Completion of EL 035, and/or appropriate score on the placement test Lecture (45.00) Completion of EL 035, and/or appropriate score on the placement test.

FRENCH

FR-101: Elementary French I  (3.00 cr.)
Offers students with no previous knowledge of French an introduction to the French language and culture, including practice in listening, speaking, reading and writing. This course uses the “French in Action” program, which is comprised of ½ hour video programs to present each lesson, followed by intensive work in a laboratory manual with audio cassettes and extended interaction in the classroom. GEN ED: H Prerequisite: RD-100 and EN-100 or EN-060

FR-102: Elementary French II  (3.00 cr.)
Continues introducing the basics of the French language and culture. The course stresses practice in listening, speaking, reading and writing. Students increase their cultural awareness effortlessly by watching the authentic videos that accompany each lesson. GEN ED: H Prerequisite: FR-101

FRESHMAN SEMINAR

FS-101: College and Career Planning  (1.00 cr.)
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.

FS-102: Career Development  (3.00 cr.)
Designed to provide students with an awareness of career issues, personal values, objectives and an informative realistic approach to obtaining work.

FS-103: Learning Strategies  (3.00 cr.)
Designed to provide students with the skills needed to increase their chances of having a successful college experience.

FS-104: STEM Seminar  (1.00 cr.)
STEM seminar provides incoming students the opportunity to acquire academic survival skills, develop analytical and critical thinking skills, and develop an awareness of STEM related issues and career options in a variety of STEM/Health majors.

FS-110: Freshman Seminar  (3.00 cr.)
Prepares students to utilize academic survival skills, discover and affirm individual values and career goals and assists students in becoming organized, self-aware, motivated and success oriented. This seminar provides a uniquely personal and interactive component wherein students become involved in participatory structured activities as a hands-on approach and application of the principles set forth in lectures, presentations and reading materials.

FS-111: Freshman Seminar - Svc Learn  (3.00 cr.)
This course will advance student academic and personal success by developing an understanding and self-awareness of the characteristics of effective leadership. The class is designed to provide an understanding of the definition, traits, styles, and characteristics of leadership, with an emphasis on leaders as community change agents. In this seminar learning will Prerequisite: place through a service learning component as well as interactive lectures, presentation and reading materials.

GEOGRAPHY

GE-101: World Geography  (3.00 cr.)
A geographical analysis of the major cultural regions of the world, emphasizing the political, religious and environmental properties of each region. GEN ED: S/D Prerequisite: EN-060

GE-102: Cultural Geography  (3.00 cr.)
An analysis of the spatial patterning of humans and their activities, focusing on population movements through time and the development of different cultural regions. GEN ED: S/D Prerequisite: EN-060

GE-110: Geography of N. America  (3.00 cr.)
An analysis of the spatial patterning of humans and their activities, focusing on population movements and the political, religious and environmental properties of the major cultural regions of North America. GEN ED: D Prerequisite: EN-060

GEOLOGY

GL-101: Physical Geology  (4.00 cr.)
Covers the nature and origin of the land and water features of the earth, including studies available concerning the oceans and their floors, with a view to providing an understanding of why our land looks as it does and the conflicts between natural change and man's use of the land and seas. Field trips are also part of this course. Gen Ed: B Prerequisite: RD-100 and EN-100 or EN-060 and MA-091 or MA-094

GL-102: Historical Geology  (4.00 cr.)
Covers the prehistoric development of the earth and living things, examines the relationships between land and sea positions and the subsequent development of life forms using physical geology concepts and the study of fossil forms, of plants and animals. Field trips are a part of the course. GEN ED: B Prerequisite: EN-050 and MA-091 | Prerequisite: EN-060 (Required, Previous or concurrent).

GL-115: Intro to Geographic Info. Sys.  (3.00 cr.)
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. Student must have successfully passed EN 060 - Introduction to College Reading and English II or have college-level English proficiency.
HI-101: Western Civilization I  (3.00 cr.) A survey of the major movements and ideas in western history through the 1500's. GEN ED: Y Prerequisite: Rd-100 and En-100 or En-060

HI-102: Western Civilization II  (3.00 cr.) A survey of the major movements and ideas in western history from the 1500's through the contemporary era. GEN ED: Y Prerequisite: Rd-100 and En-100 or En-060

HI-103: World History and Culture I  (3.00 cr.) An interdisciplinary and comparative study of major non-European civilizations from the earliest times to 1800. GEN ED: Y/D Prerequisite: Rd-100 and En-100 or En-060

HI-104: World History & Culture II  (3.00 cr.) An interdisciplinary and comparative study of major non-European civilizations from the 1800's to the present. GEN ED: Y/D Prerequisite: Rd-100 and En-100 or En-060

HI-113: Latin American History  (3.00 cr.) This course will examine the history of Latin America beginning with the rise of its ancient, indigenous civilizations through the contemporary democratic period. The class is designed to provide an analysis of the institutions, events and ideas that shaped the nations of the region. Current events will also be discussed on a frequent basis. GEN ED: Y/D Prerequisite: Rd-100 and En-100 or En-060

HI-115: Intro to Genocide Studies  (3.00 cr.) An analysis of the concept of genocide in its modern application and a survey of several examples. Included are historical and current circumstances, rationales and myths, the role of the state and strategies for preventing genocide. Prerequisite: Rd-100 and En-100 or En-060

HI-116: Holocaust  (3.00 cr.) This course will examine the constellation of forces that created the conditions culminating in the Holocaust. Particular attention will be given to the historical development of anti-Semitism, the components of Nazi ideology, the nature of totalitarianism and the significance of myths. Finally, this course will evaluate the role of Bystanders, Collaborators and Rescuers. Prerequisite: Rd-100 and En-100 or En-060

HI-201: United States History I  (3.00 cr.) A survey of the political, economic, intellectual, social, and cultural history of the United States through the Civil War. GEN ED: Y Prerequisite: Rd-100 and En-100 or Prerequisite: En-060 or Prerequisite: En-070

HI-202: United States History II  (3.00 cr.) A survey of the political, economic, intellectual, social and cultural history of the United States from the Reconstruction period to the present. GEN ED: Y Prerequisite: Rd-100 and En-100 or En-060

HI-208: African American History  (3.00 cr.) A survey of the political, economic, social and cultural history of African-Americans from the 17th century to the present. GEN ED: Y/D Prerequisite: En-100 Rd-100; Prerequisite: En-060(3285)

HEALTH SCIENCE

HS-101: Health Care Careers  (3.00 cr.) This course will introduce a broad variety of health care professions. This program will expose students of all levels to the following health occupation clusters: administrative, diagnostic, environmental service, information service/technical, and therapeutic. Elements of Health Care 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.

HS 102: Medical Terminology  (3.00 cr.) This course is designed to assist in mastery of 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 departments. Prerequisites: En 101 or En 060

HS-104: Intro to Health Information  (3.00 cr.) Introduces the student to the aspects of taking health data and presenting it as information. Focus will be on the concepts of health data that include data elements, data sets, data dictionaries, data quality management and the usages of health data. Governmental requirements for data reporting will be reviewed. Data analysis that results in application of information will be emphasized. Basics of health records, format, and documentation will also be discussed. Students will receive instruction on qualitative and quantitative analysis and abstraction with the opportunity to practice from actual health records in the lab. Chart management software will be incorporated into this course for the student to use in the lab.

HS-115: Basic Nutrition  (3.00 cr.) Provides an introduction to the science of nutrition as it relates to cellular metabolism digestion, absorption and assimilation of nutrients.

HS-140: Legal & Ethical Issues in HC  (3.00 cr.) This course will provide an overview of the legal and ethical principles needed for health care workers to give competent and compassionate care to clients. Legal and Ethical Issues in Health Care will allow students to develop skills and information literacy through critical-thinking activities, teamwork, collaboration, and a hands-on approach to learning.

HS-141: Biomedical Ethics  (3.00 cr.) 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. Prerequisites: En 101

HS-145: Exercise Science I  (3.00 cr.) This course provides the student with a foundation of exercise science. This foundation includes the following: history and philosophy, careers, professional organizations, certifications, sub-disciplines, research methods, and professional issues. Prerequisite: Rd-100 and En-100 or En-060 and ma-091 or ma-094

HS-218: Prev & Care of Athletic Injury  (3.00 cr.) This class provides an examination of current practices and procedures in the basic pathology, prevention and care of athletic injuries. The laboratory experience exposes students to wound care, padding, and the art and science of athletic injury taping. An observational clinical field experience will be required. Prerequisite: Bi-106

HS-245: Exercise Science II  (3.00 cr.) In this course the student will learn the basic principles of exercise science. The following areas will be examined: human adaptations to strength and cardiovascular training, muscular development, skeletal and neural components of force production, as well as the acute variables of resistance and cardiovascular training program design. Prerequisite: hs-145

HORTICULTURE

OH-106: Plant Materials  (3.00 cr.) Emphasizes identification and characteristics of many of the native and cultivated plants used in landscape designs. Prerequisite: En-060
OH-109: Internship (1.00 cr.)
Students will apply knowledge they gained in class work to "real world" situations. The student is expected to present a journal of their work experience for grading.

OH-130: Identification Interior Plants (3.00 cr.)
Acquaints the student with the identification of foliage and tropical plants. Students explore the usage of foliage plants in interior design layouts and become familiar with the maintenance requirements for successful growth of these plants. Prerequisite: EN-060

OH-204: Greenhouse Management (4.00 cr.)
Covers all aspects of the greenhouse business including construction, heating, cooling, and ventilation of a modern greenhouse facility. Prerequisite: EN-060

OH-208: Nursery Production (3.00 cr.)
This course is designed to introduce students to the principles and practices of nursery production. Students will be exposed to the wide array of propagation facilities available for the success of producing woody plants from seed, cutting, layering, grafting, and micro propagation. Students will also study the economic aspects of operating a commercial nursery. Prerequisite: OH-106

IC-211: Internship Career Connections (3.00 cr.)
This program is designed for students who aspire to gain career-related experience while completing their degree. The Internship Career Connections consists of an academic experience and a supervised work experience. Students will interview for available positions and, if selected for the program, will register for the class and attend a mandatory orientation. The program is also open to those students who are already working in a career-related position, given their participation in the academic component of the course and the willingness of their employer to structure the job as an Internship Career Connections work experience.

IN-104: Insurance Ethics (3.00 cr.)
This course follows the curriculum of the insurance industry's professional certification organization "The Institutes" and, as such, qualifies students to Prerequisite: their examination. The following topics are covered: professionalism; ethics including ethical responsibility to groups, ethical theories and decision-making tools, and barriers to ethical decision-making; the CPCU code of conduct including the nine CPCU cannons; disciplinary rules and procedures; and several types of ethical dilemmas.

IN-105: Property & Liability Ins Princ (3.00 cr.)
This course follows the curriculum of the insurance industry's professional certification organization "The Institutes" and, as such, qualifies students to Prerequisite: their examination. The following topics are covered: understanding insurance; insurers and how they are regulated; insurer financial performance; marketing; underwriting and rate making; claims, risk management and loss exposures; insurance policies.

IN-106: Claim Handling (3.00 cr.)
This course follows the curriculum of the insurance industry's professional certification organization "The Institutes" and, as such, qualifies students to Prerequisite: the examination. The following topics are covered: the claim function and professional ethics; the claim handling process; setting case reserves; investigating and documenting, negotiating and litigating claims; effective communication; dealing with fraud; good faith claim handling.

IN-107: Property Claim Practices (3.00 cr.)
This course follows the curriculum of the insurance industry's professional certification organization "The Institutes" and, as such, qualifies students to Prerequisite: their examination. The following topics are covered: property insurance basics including valuation, limits, conditions; the loss judgement process; loss investigation including good-faith investigation and coverage defenses; fraud investigations; fundamentals of estimating; fundamentals of residential construction; merchandise, business income and specialty losses.

IN-108: Liability Claim Practices (3.00 cr.)
This course follows the insurance industry's professional certification organization "The Institutes" and, as such, qualifies the student to Prerequisite: their examination. The following topics are covered: overview of liability claims; coverage issues with homeowners and commercial liability policies; determination of legal liability; premises and product liability; investigating liability claims including coverage disputes, evaluating and valuing liability claims, settling liability claims and managing litigation.

IN-109: Property and Liability (3.00 cr.)
This course follows the insurance industry's professional certification organization "The Institutes" and, as such, qualifies students to Prerequisite: their examination. This course provides an overview of the risk management decision-making process: identifying loss exposures and determining how to handle each exposure based on available techniques. Prerequisites: IN 104

IN 209 Risk in an Evolving World (3.00 cr.)
This course follows the curriculum of the insurance industry’s professional certification organization The Institutes and, as such, qualifies students to take their examination. This course provides an overview of the risk management decision-making process: identifying loss exposures and determining how to handle each exposure based on available techniques. Prerequisites: IN 104

IN 210 Holistically Assessing Risk (3.00 cr.)
This course follows the curriculum of the insurance industry’s professional certification organization The Institutes and, as such, qualifies students to take their examination. Develop the skills you need to holistically assess existing risks and anticipate emerging ones. Course topics include identifying and analyzing risk, leveraging risk models, data-driven decision making, preparing for hazards, cyber risk's hidden threats, uncovering operational risks, preserving reputation in the digital age, the risks behind the numbers, and protecting the supply chain.

IN 212 Risk Treatment (3.00 cr.)
This course follows the curriculum of the insurance industry’s professional certification organization The Institutes and, as such, qualifies students to take their examination. Discover effective strategies for holistically treating risks. Course topics include risk treatment basics, the role of insurance in risk treatment, alternative risk financing strategies, protecting intellectual property, risks on the move, navigating legal and regulatory risk, internal controls and operational risks, protecting capital, and optimizing risk for strategic advantage. Prerequisites: IN 104

IT-101: Elementary Italian I (3.00 cr.)
Offers students with no previous knowledge of Italian an introduction to Italian language and culture. Introductory speaking, listening, reading and writing skills as well as basic grammatical structures will be introduced. Additionally, students will develop an understanding and appreciation of Italian customs and culture, geography and history. Gen Ed: H Prerequisite: EN-060
LI-102: Elementary Italian II (3.00 cr.)
Students will continue to develop the skills acquired through Italian I. Students will further their exploration of Italian customs and culture. In addition, students will be introduced to Italian literature through selected readings. Gen Ed: H Prerequisite: LI-101

MATHEMATICS

MA-004: Module 4 Completion (1.00 cr.)
This course is designed for non-STEM student who completed modules 0-3 in MA 091 and only need to complete module 4. (This course in not intended for STEM/Health students who need to complete MA 094.) Permission by Developmental Math Coordinator is required.

MA-009: Module 9 Completion (1.00 cr.)
This course is designed for students who completed modules 5-8 in MA 094 and need to complete module 9. Permission of the Developmental Math Coordinator is required.

MA-060: Fund. of Algebra Workshop (1.00 cr.)
Fundamentals of Algebra Workshop is linked to MA-094 Fundamentals of Algebra and is designed to enhance the course for students who need support based on Accuplacer score (53-68) or completion of MA 091 (with Instructor or Advisor recommendation). The combined Fundamentals of Algebra Workshop and Fundamentals of Algebra course allow students to work on assignments with guidance and support. This one credit class meets for three hours per week in a lab setting. This course emphasizes adding, subtracting, multiplying, and dividing real numbers, polynomials, rational expressions, and radical expressions; solving first degree equations, simple inequalities, literal equations, quadratic equations, rational equations, systems of equations, and radical equations; factoring polynomials; graphing linear equations and systems of equations. This course cannot be used for graduation credit. Prerequisite: MA 091 or appropriate score on placement test. Prerequisite: MA-091 or MA-092

MA-070: Mathematics Workshop (1.00 cr.)
Mathematics Workshop provides just-in-time conceptual skill development necessary for college-level readiness. The Workshop engages students in problem solving investigations which utilizes a hands-on, activity-based approach with a focus on problem-solving strategies to help students build an understanding of basic and necessary algebraic mathematics concepts. Topics from the associated college-level course and the Mathematics Workshop are interwoven to feel like one math class. The combined mathematics course pair will meet five hours a week in a classroom setting and is taught by one instructor. Student must Prerequisite: matching MA-109, MA-115 or MA-205, if required. (Required, Concurrent).

MA-091: Introductory College Math (3.00 cr.)
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.

MA-094: Fundamentals of Algebra (3.00 cr.)
A continuation of MA 091. Topics include: adding, subtracting, multiplying, and dividing real numbers, polynomials, rational expressions, and radical expressions; solving first degree equations, literal equations, simple inequalities, quadratic equations, rational equations, and systems of equations; factoring polynomials; graphing linear equations and systems of equations. This course cannot be used for graduation credit. Prerequisite: MA-091 or MA-092

MA-105: Intermediate Algebra (4.00 cr.)
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, solution of linear and quadratic equations, rational expressions, absolute values, inequalities, graphing, radicals, exponents, and functions. Student must test into college-level Mathematics or have successfully completed MA-094 or MA-099 prior to registering for this course. | Student must test into college-level English in order to be eligible to register for this course.

MA-109: Principles of Mathematics (3.00 cr.)
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. Prerequisite: MA094 - Fundamentals of Algebra or equivalent only or Pre or Co-Requisite: MA094 - Fundamentals of Algebra or equivalent only

MA-110: College Algebra (3.00 cr.)
Topics include polynomial, rational, other algebraic functions; complex number system; exponential and logarithmic functions; and properties and graphs of functions. This course is designed for students who may continue in math, science, technology or business related fields. GEN ED: M Student must successfully complete MA-105 Intermediate Algebra prior to registering for this course.

MA-115: Math Structures & Algorithms (3.00 cr.)
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. Student must either test into college level math or Prerequisite: MA-094 prior to registering for this course. | If student has not successfully completed MA-094 prior to registering for this course, student must Prerequisite: MA-070 concurrently with this course. (Required, Concurrent).

MA-119: Structures of Mathematics II (3.00 cr.)
This course is designed primarily for elementary education majors. The course will require students to investigate problems in order to deepen their conceptual and procedural understanding in the areas of algebra, data analysis, probability, geometry, measurement, and systematic listing and counting. Student must successfully complete MA-115 Mathematical Structures and Algorithms prior to registering for this course.

MA-120: College Trigonometry (3.00 cr.)
A continuation of MA 110. Topics include angular measure, trigonometric functions, identities and equations, curve sketching, inverse trigonometric functions, applications on right triangles, oblique triangles, vectors, complex numbers, polar coordinates, and conic sections. This course is designed for students who may continue in math, science, technology or business related fields. GEN ED: M Student must have successfully completed MA-110 in order to be eligible to register for this course.

MA-121: Precalculus Mathematics (4.00 cr.)
Topics include polynomial, rational, exponential, logarithmic and trigonometric functions, the complex number system, and conic sections. Precalculus is designed to prepare students for Calculus I. MA 121 is equivalent to MA 110 and MA 120. GEN ED: M Student must successfully complete MA-105 or MA-110 in order to be eligible to register for this class.
MA-122: Business Calculus  (4.00 cr.)
Pre-Requisite: Placement into Pre-Calculus MA 121 via a CLM score of 60 or greater, or successful completion of College Algebra MA 110 with a "C" or higher. An introduction to the basic concepts of differential and integral calculus for the business and social sciences. Emphasis is placed on practical applications of limits, derivatives and integrals with business applications highlighted. This course also provides experience with and information about the significance and specific uses of calculus in today's world. This course is not intended for students in mathematical and physical sciences, engineering, or computer science. It is not equivalent to MA-130 and will not transfer as Calculus I. Successful completion of MA-110 with minimum grade of "C" or higher.

MA-125: Calculus Fundamentals I  (3.00 cr.)
Intended for students who are not in Science or Engineering. An introduction to differential and integral calculus of a single variable. Student must have successfully completed MA-120 or MA-121 in order to register for this course.

MA-130: Calculus I  (4.00 cr.)
Topics include limits; continuity; and differentiation techniques for algebraic, trigonometric, and transcendental functions. The definite integral and the antiderivative are linked by the Fundamental Theorem of Calculus. Numerical methods such as Newton's method as well as trapezoidal and Simpson's rule. Theory is augmented by applications from a variety of disciplines. GEN ED: M Prerequisite: ma-130

MA-140: Calculus II  (4.00 cr.)
A continuation of MA 130. Topics include a further development of exponential and logarithmic functions, inverse trigonometric functions, hyperbolic and inverse hyperbolic functions; integration techniques; indeterminate forms, L'Hopital's rule and improper integrals; and infinite sequence and series. Theory is augmented by applications from a variety of disciplines. GEN ED: M Prerequisite: ma-130

MA-149: Mathematics for Management  (4.00 cr.)
This is a study of those applications of algebra necessary for business analysis. Topics include functions, equations and inequalities, matrix operations, linear programming, sequences and mathematics of finance as they apply to the management sciences. Student must successfully complete MAT 105 or equivalent prior to registering for this course.

MA-205: Statistics I  (3.00 cr.)
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. Prerequisite MA094 - Fundamentals of Algebra or equivalent only or Pre or Co-Requisite MA070 - Mathematics Workshop only

MA-206: Statistics II  (3.00 cr.)
Provides additional statistical research tools and techniques. Topics include testing the difference between means, variances, and proportions; f-test; chi-squared test; ANOVA; linear and multiple regression; correlation; and non-parametric tests. Statistical tests will be presented in the context of basic research techniques. GEN ED: M Prerequisite: MA-205

MA-207: Linear Algebra Lab for Engineers  (1.00 cr.)
This is a linear algebra lab designed to prepare engineering students for their Differential Equations course. Topics include vector operations, matrix row operations, matrix operations, determinants, vector spaces and subspaces, eigenvalues and eigenvectors, diagonalization and spectral decomposition, various applications, and numerical methods. Students will be introduced to new concepts in a lecture format and will then experiment with those concepts in a lab setting using mathematical software. Complete MA-140

MA-210: Calculus III  (4.00 cr.)
A continuation of MA 140. Topics include a review of infinite series, conic sections, parametric equations, polar coordinate system and equations, vector valued functions, functions of several variables, partial and directional derivatives, and multiple integration. Theory is augmented by applications from a variety of disciplines. Prerequisite: ma-140

MA-211: Discrete Mathematics  (3.00 cr.)
This course is directed toward computer science and mathematics majors. Topics include sets, relations, functions, logic, induction, combinations, Boolean algebra, recurrence relations, digraphs and trees. Emphasis is on the solution of problems. Student must successfully pass MA-121 Precalculus prior to registering for this course.

MA-212: Linear Algebra  (3.00 cr.)
This course is an in-depth study of mathematical proofs and linear algebra. Topics will include specific skills and abstract approaches for mathematical proofs and basic computational techniques, practical applications and theoretical results of linear algebra. Student must successfully complete MA-130 Calculus I or MA-140 Calculus II prior to registering for this course.

MA-220: Differential Equations  (4.00 cr.)
Topics include first-order differential equations, higher order linear equations with constant and variable coefficients, solutions by infinite series, Laplace transforms and numerical methods. Other topics include existence and uniqueness theorems, phase plane and equilibrium points as well as modeling real world problems by using differential equations. Prerequisite: ma-210

MUSIC

MU-101: Music Appreciation  (3.00 cr.)
Offers a survey of the literature, historical period, elements and forms of music with emphasis on listening and the relationship of music to general cultural development. Students will be expected to go on a field trip at their own expense. GEN ED: H Prerequisite: EN-050 (Required, Previous or concurrent).

MU-114: History of Music  (3.00 cr.)
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. Students will be expected to go on a field trip to a musical concert at their own expense. GEN ED: H Prerequisite: RD-100 and EN-100 or EN-060

MU-115: History of Jazz & Pop Music  (3.00 cr.)
A survey of jazz in the 20th century with emphasis upon the major styles and the major artists. Popular song styles of the 20th century from a variety of idioms: Tin Pan Alley, jazz, blues, Latin, folk, country, pop, rock, film, etc. Music literature is approached through recordings, live performance and appropriate reading. Students will be expected to go on a field trip to a musical concert at their own expense. GEN ED: D

MU-146: Music of the Theatre  (3.00 cr.)
Covers a variety of musical styles through a historical perspective, focusing on music in theatre productions and its psychological effects, both subliminal and intended, on audiences.

NURSING

NURS 102 Dosage Calculations for Nurses  (1.00 cr.)
This course will include a review of essential math concepts for dosage calculation including fractions, percentages, ratios, measurements and conversions. Practice and assessment tests will include problems featuring medication administration, including oral, intravenous and parenteral routes. Accreditation standards of medication administration will be emphasized. Prerequisites: MA 091 or appropriate score on placement test.
NURS 105 Intro to Nursing Informatics (1.00 cr.)
This course will introduce the student to important informatics tools that are currently being utilized in health care to ensure safe and quality care. Electronic Health Records (EHR), telehealth, personal references management software, Evidence-Based Practice (EBP) and HIPAA will be emphasized. Prerequisites: EN 060

NURS 107: Pharmacology for Health Professionals (3.00 cr.)
This course introduces students to the principles of pharmacotherapy. Origins and classifications of drugs are presented. Safe administration of drugs is stressed, including food and drug interactions and dosage calculation. Selection of alternative therapies are discussed. Legal and ethical aspects of drug use are also emphasized. Prerequisite: BI 107

NURS 122 Pharmacology for Health Professionals (3.00 cr.)
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. Prerequisites: BI 106

NURS-110: Nursing I (6.00 cr.)
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. Co-requisites and Prerequisites: BI 106, PY 101, EN 101 Co-requisite: NURS 111

NURS 111: Nursing I Lab (1.00 cr.)
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. Co-requisites and Prerequisites: BI 106, PY 101, EN 101 Co-requisite: NURS 110.

NURS-115: LPN-To-RN Track (3.00 cr.)
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. Prerequisites – Acceptance into the Nursing Program. AND BI 106, PY 101, EN 101

NURS-120: Nursing II (9.00 cr.)
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. Prerequisites: NURS 110 & NURS 111 Co-requisites and Prerequisites: BI 107, EN 102 Co-requisite: NURS 121.

NURS 121: Nursing II Lab (1.00 cr.)
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. Prerequisites: NURS 110 & NURS 111 Co-requisites and Prerequisites: BI 107, EN 102 Co-requisite: NURS 120

NURS-126: Nursing Reflections (2.00 cr.)
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 Prerequisite: place on the College campus. Completion of at least one semester of nursing education or permission of the Dean of Nursing and Health Professions required.

NURS-210: Nursing Global Issues & Trends (2.00 cr.)
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. Prerequisites: NURS 120, NURS 121, BI 107, EN 102

NURS-230: Nursing III (8.00 cr.)
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. Co-requisite and Prerequisite: BI 203 Co-requisite: NURS 231 – Nursing III Lab

NURS-231: Nursing III Lab (1.00 cr.)
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. Co-requisite and Prerequisite: BI 203 Co-requisite: NURS 230 – Nursing III

NURS-240: Nursing IV (7.00 cr.)
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. Prerequisites: NURS 230, NURS 231

NURS-245: Transition to Practice (4.00 cr.)
This course focuses on integration of knowledge, continued development of clinical judgement 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. Prerequisites: NURS 240

PHILOSOPHY

PH-101: Philosophy (3.00 cr.)
Aims, functions, and methods of philosophy are examined. Topics include appearance and reality, concepts and judgements, and language, words and meaning. Selected readings from the great philosophers are assigned to acquaint students with systematic approaches to logic, ethics, and aesthetics. Prerequisites: EN 060
PH-102: Introduction to Ethics (3.00 cr.)
This course 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, evil, duty, and virtue. The course applies ethics with special references to the dignity of and respect for the person. GEN ED: H Prerequisites: EN 060

PHYSICS

PI-104: Energy Environ & Society (3.00 cr.)
This course provides an overview of the ways modern society utilizes and converts energy in its quest for technological and economic advancement. The course covers important topics such as energy (fundamental units, concepts, history of development and current problems) and its impact on the global environment. An overview of the current unsustainable (coal, oil, natural gas, nuclear) as well as sustainable technologies (solar, wind, wave, biomass, geothermal, tidal, hydropower) is provided. In addition, the student is made aware of the important role energy conversion and utilization by industrialized and industrializing countries presently plays in global climate change. The course forms the foundation for student knowledge of energy and its relationship to economic prosperity.

PI-109: Physics of Musical Sound (4.00 cr.)
This course explores the physics of sound as generated by stringed musical instruments. Students will learn how the components of stringed instruments contribute to the production of audible sound in a manner that allows musical expression. Gen Ed: B Prerequisite: EN 050 and MA 091

PI-110: Principles of Science (4.00 cr.)
Introduces the non-science major to selected topics in geology, astronomy, physics and chemistry. Among the topics discussed will be atoms, molecules, chemical change, the solar system, the planet earth, igneous rocks, sedimentary rocks and metamorphic rocks. The laboratory section will provide experiments in selected topics in geology, astronomy, physics and chemistry to support the lecture section. Gen Ed: B Prerequisite: MA-091 and EN-060

PI-115: Astronomy (4.00 cr.)
An introductory course in astronomy for non-science majors. The basic concepts in astronomy will be presented with emphasis on the solar system. Universal law of gravitation will be discussed as it pertains to the formation and evolution of stars and other astronomical structures. Asteroids, Comets, pulsars, Neutron Stars, and black holes are among the topics of discussion. Students will be exposed to some basic techniques used to gather and analyze experimental astronomical data. Lab activities will include measurement of angular position of Polaris and change in angle of ecliptic, and observation and interpretation of the phases of the moon. Gen Ed: B Prerequisite: MA-091

PI-123: Fundamentals of Physics I (4.00 cr.)
An algebra-based physics course. The fundamentals of physics provide exposure to the laws of mechanics, heat, thermodynamics, waves and oscillation. The course, in addition to PI-124, satisfies physics requirements for many disciplines in science including but not limited to pre-medicine and physical therapy. GEN ED: B Student must have successfully completed MA-094 in order to be eligible to register for this course.

PI-124: Fundamentals of Physics II (4.00 cr.)
This is an algebra based Physics course. The fundamentals of physics II provides the students exposure to the laws of electricity, magnetism, geometrical and wave optics, power generation and consumption as well as electrostatics. The course, in addition to PI-123, satisfies the physics requirements for many disciplines in science including but not limited to pre-medicine, physical therapy and biomedical research. PI-123 does not have to be taken before this course. GEN ED : B Prerequisite: MA094

PI-141: Gen Physics I (4.00 cr.)
A calculus based course in general physics providing exposure to mechanics, heat, oscillations and waves, and thermodynamics. Among the topics of discussion are kinematics, laws of motion, and conservation laws. Weekly laboratory experiments are designed to provide the students with a deep understanding of the laws of mechanics. Prerequisite or Corequisite: MA 130 or permission of instructor. GEN ED: B Prerequisite: MA-130 (Required, Previous or concurrent).

PI-142: Gen Physics II (4.00 cr.)
A continuation of general physics I, this calculus based course provides the students an exposure to the basic concepts in electricity, magnetism, light, and modern physics. Principles of electrostatics, magnetic induction, geometric and wave optics, and special theory of relativity are among the topics discussed in this course. A series of laboratory experiments complement the course. Prerequisite: PI 141 or permission of instructor. GEN ED: B Prerequisite: PI141

PI-241: Forensic Science I (4.00 cr.)
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. Criminal Justice majors are expected to successfully complete CJ-106 Introduction to Criminal Justice prior to registering for this class. All other students must have successfully passed EN 060 - Introduction to College Reading and English II or have attained college-level English proficiency prior to registering for this class.

PI-242: Forensic Science II (4.00 cr.)
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. Student must successfully complete PI-241 Forensic Science I in order to be eligible to register for this course.

PRACTICAL NURSING

PN-101: Practical Nursing (7.00 cr.)
Foundations of Practical Nursing Practice include an introduction to nursing theory, legal and ethical concepts, cultural influences on health care, technical skills and clinical components. Concurrent lab and clinical experiences facilitate the application of theory to the principles of client assessment and management of care. Using the concepts of professionalism, holism, nursing process, optimal functioning and community based practice, students will provide basic care to selected adults clients who require nursing support. Co requisites: Prerequisite: EN 101, BI 106

PN-102: Med Surg Practical Nursing (7.00 cr.)
Medical Surgical Practical Nursing builds on PN 101 to include application of human Biology into the concepts of pathophysiology, technical skills and clinical components. Concurrent lab and clinical experiences facilitate the application of theory to the principles of client assessment and management of care. Using the concepts of professionalism, holism, nursing process, optimal functioning and community based practice, students will provide medical surgical care to selected adult clients in long term care and acute care facilities. Course Prerequisites: EN-101, BI-106, PN-101 Corequisites: HS-115, PY-101
### POLITICAL SCIENCE

**PS-201: American Federal Government**
- (3.00 cr.)
- A study of the basic principles of government at the national level: the Constitution, the structure and function of the various branches of government, political parties, interest groups, civil liberties, civil rights, and responsibilities of citizenship. Gen Ed: S Prerequisite: EN-060

**PS-203: State & Local Government**
- (3.00 cr.)
- A study of the basic principles and functions of government at the state and local level, with special attention to New Jersey. Gen Ed: S Prerequisite: EN-060

### PSYCHOLOGY

**PY-101: General Psychology**
- (3.00 cr.)
- An introduction to the study of behavior including the principles of learning, thinking, and perceiving; emotion; motivation and personality development; and the biological basis of behavior. Gen Ed: S Prerequisite: EN-060

**PY-102: Child Psychology**
- (3.00 cr.)
- A survey of the psychological and social development of the child with emphasis placed upon the formation of attitudes, group processes and structure, and the relationship of the developing individual to sociocultural systems. GEN ED: S Prerequisite: PY-101

**PY-115: Child Development & Learning**
- (3.00 cr.)
- An overview of child development from birth through age eight. Examines the work of major theorists and the relationship between development, learning, and educating young children. Prerequisite: EN-060 (Recommended, Previous). Prerequisite: ED-106 (Recommended, Previous or concurrent).

**PY-202: Addictive Behavior**
- (3.00 cr.)
- An exploration of the signs, symptoms, and causes of addictive behavior. The focus is on addiction as a disease and its effects on the individual and family, in addition to a discussion of the support systems for those affected by addictions. Prerequisite: EN-060 and PY-101 and SO-201

**PY-204: Psychology of Adolescence**
- (3.00 cr.)
- A study of the physical, social and emotional growth of the adolescent. Prerequisite: PY-101

**PY-205: Psychopharmacology**
- (3.00 cr.)
- 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 their effect on the human body will be examined. Prerequisite: PY-101

**PY-207: Human Growth & Development**
- (3.00 cr.)
- A study of the major milestones in human development from infancy through the aging process as these stages are defined in our society. GEN ED: S Prerequisite: PY-101

**PY-209: Abnormal Psychology**
- (3.00 cr.)
- This course focuses on causes of abnormal behavior and their effect. Students will learn to select and calculate appropriate procedures to analyze both quantitative and qualitative data. Prerequisite: PY-101

**PY-213: Educational Psychology**
- (3.00 cr.)
- Applies the principles of psychology to the teaching and learning process. Topics include human development, individual and cultural differences, learning theories, motivation and assessment. Prerequisite: PY-101 and ED-101

**PY-214: Human Exceptionality**
- (3.00 cr.)
- Designed to develop students’ awareness and understanding of individuals with exceptional needs. Particular attention is given to the evolving field of special education. Prerequisite: PY-101

**PY-217: Psychology of Aging**
- (3.00 cr.)
- 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. Students are required to pass EN-101 English Composition I and PY-101 General Psychology prior to registering for this course.

**PY-231: Abuse & Violence in the Family**
- (3.00 cr.)
- 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. Students must successfully complete EN-101 and PY-101 prior to registering for this class.

**PY-240: Social Psychology**
- (3.00 cr.)
- This is an introduction to the concepts of group behavior, their empirical foundations and their implications for the individual in interpersonal relationships. Student must have successfully completed EN-101 and PY-101 prior to registering for this course. Prerequisite: SO-201 when registering for this course.

**PY-305: Psychology of Scientific Think**
- (3.00 cr.)
- 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. Students must successfully complete PY-101 Intro to Psychology in order to register for this class.

**PY-306: Statistics in Psychology**
- (3.00 cr.)
- 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. Pre or Corequisite PY 305
### RADIOGRAPHY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT-100: Rt Theory/Clinical Remediation</td>
<td>(2.00 cr.)</td>
<td>Provides individualized classroom and laboratory instruction. The course is available to students who have been unable to successfully complete Radiography Program course corequisites.</td>
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</tr>
<tr>
<td>RT-101: Intro Rt Science</td>
<td>(3.00 cr.)</td>
<td>Students are oriented to the organization of hospitals and introduced to the role of the radiographer within the organizational structure. The course includes an introduction to medical terminology, film processing, professional ethics, legal responsibilities and Radiography professionalism. Provides basic concepts of Patient Care. Routine and emergency patient procedures and infection control will be described. The role of the radiographer in patient education will be identified. The role of human diversity in understanding patients and personnel is discussed. Prerequisite: BI-106</td>
<td>Prerequisite: RT-102, RT-103, RT-104 and BI-106 (Required, Previous or concurrent).</td>
</tr>
<tr>
<td>RT-102: Rad Procedures</td>
<td>(3.00 cr.)</td>
<td>Using lectures and audiovisuals, basic radiographic positioning, anatomy, and terminology used for procedures of the chest, abdomen, and extremities are presented. Laboratory sessions are used for demonstration and for student participation in the simulation of the procedures. Prerequisite: BI-106</td>
<td>Prerequisite: RT-101, RT-103, RT-104 and BI-106 (Required, Previous or concurrent).</td>
</tr>
<tr>
<td>RT-103: Clin Prac Film I</td>
<td>(2.00 cr.)</td>
<td>Students are assigned to the Radiology Department of a clinical education center for practical application of the information presented in the corequisite courses. Prerequisite: BI-106</td>
<td>Prerequisite: RT-101, RT-102, RT-104 and BI-106 (Required, Previous or concurrent).</td>
</tr>
<tr>
<td>RT-104: Radiographic Exposure I</td>
<td>(2.00 cr.)</td>
<td>Introduces the student radiographer to the principles of x-ray production and the evolution of medical imaging. Emphasis will be placed on the primary factors needed to produce a radiograph and their effect on image quality. Prerequisite: BI-106</td>
<td>Prerequisite: RT-101, RT-102, RT-103 and BI-106 (Required, Previous or concurrent).</td>
</tr>
<tr>
<td>RT-106: Radiographic Exposure II</td>
<td>(2.00 cr.)</td>
<td>This course will concentrate on the equipment in use within a Radiology Department and its relationship to the photographic and geometric properties of an image. Co-requisite: RT 107, RT 110, RT 121, BI 107 Prerequisite: RT-101 and RT-102 and RT-103 and RT-104 and BI-106</td>
<td></td>
</tr>
<tr>
<td>RT-107: Radiographic Procedures II</td>
<td>(3.00 cr.)</td>
<td>Basic radiographic positioning, anatomy, and terminology used for procedures of the vertebral column, bony thorax, urinary and digestive system are presented. This course also focuses on contrast media and its use in radiography of the body systems.</td>
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</tr>
<tr>
<td>RT-110: Clinical Pract &amp; Film Eval II</td>
<td>(2.00 cr.)</td>
<td>Students are assigned to the Radiology Department of a clinical education center for practical application of the information presented in the prerequisite courses.</td>
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</tr>
<tr>
<td>RT-111: Clin Pract Film III</td>
<td>(2.00 cr.)</td>
<td>Students are assigned to the Radiology Department of a clinical education center for practical application of the information presented in the prerequisite courses. Prerequisites: RT-106, RT-107, RT-110, RT-121, BI-107 Corequisite: BI-107</td>
<td>Prerequisite: RT-106 RT-107 RT-110 RT-121 BI-107.</td>
</tr>
<tr>
<td>RT-121: Rad Protect Bio</td>
<td>(3.00 cr.)</td>
<td>This course provides an overview of the principles of the interaction of Radiation with living systems. Factors affecting biological response are discussed as well as the responsibilities of the radiographer for patient personnel and public safety. Radiation Health and Safety requirements are incorporated.</td>
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</tr>
<tr>
<td>RT-200: Clinical Pract IV</td>
<td>(2.00 cr.)</td>
<td>Students are assigned to the Radiology Department of a clinical education center for practical experience. Prerequisite: RT 106, RT 107, RT 110, RT 111, RT 121, BI 107. Clinical (360.00)</td>
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</tr>
<tr>
<td>RT-201: Rad Procedures III</td>
<td>(3.00 cr.)</td>
<td>The course content will focus on the projections and positioning used for radiography of the cranium. Laboratory sessions are designed to demonstrate the basic positions and technical factors for procedures as they are described in lectures and audiovisals. Prerequisite: RT-111</td>
<td>Prerequisite: RT-202 and RT-220 (Required, Previous or concurrent).</td>
</tr>
<tr>
<td>RT-202: Clinical Pract V</td>
<td>(3.00 cr.)</td>
<td>Students are assigned to the Radiology Department of a clinical education center for practical experience. Prerequisite: RT-111</td>
<td>Prerequisite: RT-201 and RT-220 (Required, Previous or concurrent).</td>
</tr>
<tr>
<td>RT-205: Radiographic Procedures IV</td>
<td>(3.00 cr.)</td>
<td>Using lecture, radiographs, and audiovisuals, the basic procedures and equipment used for pediatric patients, mammography, vascular, and neurological imaging are presented. Students are introduced to the imaging and therapeutic modalities of computerized tomography, nuclear medicine, ultrasound, radiation therapy, and magnetic resonance. Prerequisite: RT-201 and RT-202 and RT-220</td>
<td>Prerequisite: RT-206 and RT-221 (Required, Previous or concurrent).</td>
</tr>
<tr>
<td>RT-206: Clinical Pract VI</td>
<td>(3.00 cr.)</td>
<td>Students are assigned to the Radiology Department of a clinical education center for practical application of the information presented in the prerequisite and corequisite courses. Students will observe and assist in angiographic and interventional procedures under direct supervision of a qualified radiographer. Prerequisite: RT-201 and RT-202 and RT-220</td>
<td>Prerequisite: RT-205 and RT-221 (Required, Previous or concurrent).</td>
</tr>
<tr>
<td>RT-220: Equi Op Main I</td>
<td>(2.00 cr.)</td>
<td>This course will provide the student with a review of atomic structure and an understanding of electricity as it applies to radiographic equipment and the production of x-rays. The interactions between x-ray and matter and the relationship between x-radiation, the patient and image formation will be stressed. Prerequisite: RT-111</td>
<td>Prerequisite: RT-201 and RT-202 (Required, Previous or concurrent).</td>
</tr>
</tbody>
</table>
RT-221: Equi Op Main II (2.00 cr.)
The content of this course is designed to establish a knowledge base in Radiographic, Fluoroscopic, Mobile, Tomographic and Electronic imaging equipment. The content will also provide a basic knowledge of Quality Control. Prerequisite: RT-201 and RT-202 and RT-220 | Prerequisite: RT-205 and RT-206 (Required, Previous or concurrent).

READING

RD-070: Adv. College Reading Workshop (1.00 cr.)
Reading Workshop I is a standalone course designed to build skills for students who need support in reading. This one-credit class meets for two hours each week: one hour with an instructor and one hour in a computer room working in MySkillsLab with advanced reading content. These skills are reinforced with writing assignments and challenged and extended in One Book One College participation. Completion of EN 050 or EN 060, and/or appropriate score on placement test.

REAL ESTATE

RE-101: Real Estate (5.00 cr.)
Designed to provide the student with the necessary information to sit for the New Jersey Real Estate Salesperson licensure exam. Topics include property rights, contracts, leases, deeds and title transfer, mortgages, settlement procedures, appraising, and administrative regulations. This course will satisfy the state requirements for course work in real estate. Prereq: Must be 18 Years of age or older, High School Diploma or equivalency and no criminal history background.

RELIGION

RL-101: Perspectives on Religion (3.00 cr.)
Explains the functions of religion and describes the fundamental nature of diverse religious systems. Specific topics considered include sacredness, symbolization, myth, evil and salvation. Gen Ed: H Prerequisite: EN-101

RL-102: World Religions (3.00 cr.)
Presents an intro to the major religions of the world. Utilizing both a description and interpretative approach, the origin and historical development of each religion is examined with particular attention given to the impact of beliefs and practices in the daily life of the ordinary believer. The survey includes Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity and Islam. Gen Ed: H/D Prerequisite: EN-101

RL-103: Intro. to Asian Religions (3.00 cr.)
Introduction to the major Asian religious, philosophical and cultural traditions (Hinduism, Buddhism, Confucianism, Taoism, Shinto) with emphasis on the cultural roots of each religious tradition, the analysis of its principal teachings and practices, and the major cultural expressions. Gen Ed: H/D Prerequisite: EN-101

RESPIRATORY

RS-210: Fund Respiator (5.00 cr.)
UMDNJ - Respiratory Therapy Professional Course. Will be transferred in from UMDNJ to complete A.A.S. Respiratory Therapy joint degree. Relates to RSTS-2100

RS-212: Cardio Pharmaco (2.00 cr.)
UMDNJ - Respiratory Therapy Professional Course. Will be transferred in from UMDNJ to complete A.A.S. Respiratory Therapy joint degree. Relates to RSTS-2120

RS-213: Cardio Physiolo (3.00 cr.)
UMDNJ - Respiratory Therapy Professional Course. Will be transferred in from UMDNJ to complete A.A.S. Respiratory Therapy joint degree - relates to RSTS 2130

RS-219: Clinical Prac I (2.00 cr.)
UMDNJ - Respiratory Therapy Professional Course. Will be transferred in from UMDNJ to complete A.A.S. Respiratory Therapy joint degree - relates to RSTS 2199

RS-225: Meh Ventilation (4.00 cr.)
UMDNJ - Respiratory Therapy Professional Course. Will be transferred in from UMDNJ to complete A.A.S. Respiratory Therapy joint degree - relates to RSTS-2250

RS-226: Cardio Evaluati (3.00 cr.)
UMDNJ - Respiratory Therapy Professional Course. Will be transferred in from UMDNJ to complete A.A.S. Respiratory Therapy joint degree - relates to RSTS-2270

RS-227: Pedi/Natal Resp (2.00 cr.)
UMDNJ - Respiratory Therapy Professional Course. Will be transferred in from UMDNJ to complete A.A.S. Respiratory Therapy joint degree - relates to RSTS 2280

RS-228: Cardio DiSease (2.00 cr.)
UMDNJ - Respiratory Therapy Professional Course. Will be transferred in from UMDNJ to complete A.A.S. Respiratory Therapy joint degree - relates to RSTS 2299

RS-229: Clinical Prac II (2.00 cr.)
UMDNJ - Respiratory Therapy Professional Course. Will be transferred in from UMDNJ to complete A.A.S. Respiratory Therapy joint degree - relates to RSTS 2339

RS-237: Home/Rehab Care (3.00 cr.)
UMDNJ - Respiratory Therapy Professional Course. Will be transferred in from UMDNJ to complete A.A.S. Respiratory Therapy joint degree - relates to RSTS 2370

RS-239: Clinic Prac III (3.00 cr.)
UMDNJ - Respiratory Therapy Professional Course. Will be transferred in from UMDNJ to complete A.A.S. Respiratory Therapy joint degree - relates to RSTS 2399

SOCIOLOGY

SO-130: Society, Ethics & Technology (3.00 cr.)
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. Student must have successfully passed EN 060 - Introduction to College Reading and English II or have attained college-level English proficiency prior to registering for this class.

SO-201: Introductory Sociology (3.00 cr.)
An introduction to the study of society, including social groups, social institutions, and social change. Gen Ed: S Prerequisite: EN-060

SO-202: Contemporary Social Problems (3.00 cr.)
The identification and analysis of major societal problems such as population growth and urbanization, crime and delinquency, and social conflict. Student must successfully test into college-level English prior to registering for this course. Prerequisite: EN-060

SO-205: Intro to Gerontolgy (3.00 cr.)
A survey of the social, psychological and physiological issues associated with the aging process in the United States. Prerequisite: EN-060 and SO-201

SO-207: Soc. Minor. & Intergrp. Rel. (3.00 cr.)
A study of prejudice, discrimination, and the relations between and within different cultural and racial groups in the United States. Gen Ed: D Prerequisite: SO-201

SO-212: Social Psych. Counseling Tech. (3.00 cr.)
An introduction to interviewing and recording techniques within a social service context. Prerequisite: SO-201
SO-214: Intro. to Sports & Sociology (3.00 cr.)
This course studies the role of sport and the relationships between sport and society, both historically and in contemporary society. This course will examine how sport arises from and can contribute to community; how sport might be a reflection of society; and whether it can shape society sometimes toward a more level playing field. Prerequisite: SO-201

SO-215: Death and Dying (3.00 cr.)
A sociological and psychological exploration of issues surrounding death and bereavement such as grief, funerals, euthanasia, suicide and the dying patient. Prerequisite: SO-201

SO-216: Sociology of the Family (3.00 cr.)
An examination of the family as a social institution in U.S. society. Topics include the family's historical development and changing structure, child rearing practices, and marriage and divorce. Prerequisite: EN-060 and SO-201

SO-217: Hum Behavior in Soc. Env. I (3.00 cr.)
An introduction to biological and social science concepts about human development and social functioning necessary for the practice of social work. Prerequisite: SO-201

SO-219: Human Behavior II (3.00 cr.)
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. Prerequisite: SO-217

SO-220: Intro Soc. Work & Soc. Welfare (3.00 cr.)
This course provides an introduction to the social work profession and social welfare system. The student will explore the social welfare system, past and present to understand the social workers role and function. Prerequisite: SO-201 and SO-217

SO-221: Social Service Field Work I (3.00 cr.)
Lectures, workshops, and field work experiences in a community agency under the supervision of a trained practitioner. It is suggested that students find a placement for Field work (90 hours) prior to the course starting for the semester the student is registered. Prerequisite: SO-201 and SO-202

SO-222: Social Service Field Work II (3.00 cr.)
Continues the field work experience of SO 221. It is suggested that students find a placement for Field Work (90 hours) prior to the course starting for the semester the student is registered. Prerequisite: SO-221

SO-223: Alcohol & Drug Field Work I (3.00 cr.)
The field instruction is designed to give the student a veridical understanding of social work practice. Students are assigned to various alcohol and drug social service agencies. It is suggested that students find a placement for Field Work (90 hours) prior to the course starting for the semester the student is registered. Prerequisite: SO-201 and PY-202

SO-225: Addictions Counseling (3.00 cr.)
Students will be introduced to the techniques and approaches of addiction counseling that are grounded in research. This course includes a comprehensive and detailed study of application both in documentation and treatment of the 12 core functions. Emphasis will be on preparation for on-site practice and for eventual state and national licensure and certification. Students will recognize some core ethical dilemmas and general ways to approach them and develop approaches on working in difficult systems and how one's own model of addiction and understanding of influences impact the view of the addicted client. Student must successfully complete SO-202 Contemporary Social Problems prior to registering for this class.

SO-226: Addictions Recovery: Client Ed (3.00 cr.)
Students will examine the process of recovery and learn how to reduce the risk of relapse among clients with substance abuse. Students will learn about clinical strategies and tools to use in individual, group or family counseling sessions. Student must successfully complete SO-202 Contemporary Social Problems prior to registering for this course.

SO-227: Core Functions, Globl Criteria (3.00 cr.)
Core Functions, Global Criteria & Case Presentation Students will examine the requirements the counselor considers in a variety of factors before deciding whether or not to admit the potential client for treatment. It is imperative that the counselor use appropriate diagnostic criteria to determine whether the applicant's alcohol or drug use constitutes abuse. All counselors must be able to describe the criteria they use and demonstrate their competence by presenting specific examples of how the use of alcohol and other drugs has become dysfunctional to a particular client. The determination of a particular client's appropriateness for a particular program requires the counselor's judgment and skill and is influenced by the program's environment and modality (i.e. inpatient, outpatient, residential, pharmacotherapy, detoxification, or day care). Important factors include the nature of the substance abuse, the physical condition of the client, the psychological functioning of the client, outside support/resources, previous treatment efforts, motivation, and the philosophy of the program. The eligibility criteria are generally determined by focus, target population, and funding requirements of the counselor's program or agency. Many of the criteria are easily ascertained. These may include the client's age, gender, place of residence, legal status, veteran status, income level, and the referral source. Allusion to following agency policy is a minimally acceptable statement. If the client is found ineligible or inappropriate for the program, the counselor should be able to suggest an alternative. Student must successfully complete SO-202 Contemporary Social Problems prior to registering for this course.

SPANISH

LS-101: Elementary Spanish I (3.00 cr.)
Offers students with no previous knowledge of Spanish an introduction to the Spanish language and culture with an emphasis on oral proficiency in the language. The audio-visual program "Destinos" is used in all Spanish courses. Introductory speaking, listening, reading and writing skills as well as basic grammatical structures of the Spanish language will be introduced. GEN ED: H Prerequisite: RD-100 and EN-100 or EN-060

LS-102: Elementary Spanish II (3.00 cr.)
Offers students a continuation of the development of Spanish language skills covered in Spanish 101. Additional cultural information will be provided. Continued oral proficiency in Spanish will be emphasized. GEN ED: H Prerequisite: LS-101

LS-104: Conversational Spanish (3.00 cr.)
Offers students with no previous knowledge of Spanish an introduction to beginning conversational Spanish with practice in basic listening, speaking, reading and writing. Spanish culture will also be introduced. Prerequisite: RD-100 and EN-100 or EN-060

LS-201: Intermediate Spanish I (3.00 cr.)
Offers the development of greater facility in listening, speaking, reading and writing skills in the Spanish language. More complex grammatical structures will be introduced. Spanish culture will be emphasized. GEN ED: H/D Prerequisite: LS-102

LS-202: Intermediate Spanish II (3.00 cr.)
Offers a continuation of more complex Spanish language skills than were presented in Spanish 201. Additional cultural information will be provided. Further development of oral proficiency in the Spanish language will be emphasized. GEN ED: H/D Prerequisite: LS-201

SPEECH

SP-203: Effective Speech (3.00 cr.)
Covers the organization and oral presentation of ideas, along with voice control and personal poise. Stress is given to eye contact and the ability to prepare and deliver brief speeches for special occasions when preparation time is limited. Gen Ed: C Prerequisite: EN-101
THEATER

**TH-101: Theatre Appreciation**
(3.00 cr.)
Designed to introduce the student to the origin, history, and various styles of dramatic art, including different cultural types of theatre. Stress is given to a greater appreciation for theatre production when all the elements involved are presented in detail. Gen Ed: H Prerequisite: RD-100 and EN-100 or EN 060

**TH-104: Voice for the Actor I**
(3.00 cr.)
This course focuses on the techniques of effective voice and speech production and development of the student’s vocal technique and awareness of the vocal process through exercises in relaxation, body alignment, support of tone and placement of sound. Emphasis on freeing the vocal apparatus of tension, extending pitch range and developing greater responsiveness to language values will be explored throughout this course.

**TH-105: Movement for the Actor I**
(3.00 cr.)
A basic movement course designed to introduce and explore the beginning techniques, styles and study of movement for the stage performer, in particular the actor and vocalist. This course is also recommended for directors and choreographers who desire supplementary study in acquiring techniques for working with the stage performer.

**TH-111: Production and Performance I**
(1.00 cr.)
This course is for theater majors only. It is designed to give theatre students a 45 hour internship experience for practicing their craft. Credit can be received for acting, tech work, stage managing or special projects.

**TH-120: Acting I**
(3.00 cr.)
A basic course that introduces students to acting techniques. Work includes body and vocal techniques as well as emotion and memory sense leading to basic character development. Must be at college level English, EN 101 or higher. (Required, Previous or concurrent).

**TH-123: Directing**
(3.00 cr.)
Students will work with the director on character and scene analysis. Students will be invited to discuss directorial choices and given the opportunity to assist in blocking a scene.

**TH-125: Music Th Dance**
(1.00 cr.)
Students will work with a choreographer on devising and implementing character driven choreography. Students will learn how choreographers use notation as part of their process.

**TH-128: Acting for Television**
(3.00 cr.)
This course offers instruction and practice in the basics of acting for the camera and will assist students in making the transition from the theater to the screen. It will introduce students to on-camera performance in various genres, and will address the technical requirements of TV and film acting such as playing to the camera, shooting out of sequence, blocking and other production considerations. The course includes significant on-camera scene work, character development, audition techniques, and script analysis. The assignments will include live taping of selected materials. In addition to learning basic on-camera acting techniques and script analysis, students will explore the process of finding work from agent to audition, casting director to callback, to getting the gig and getting on camera.

**TH-150: Stagecraft**
(3.00 cr.)
A basic course that introduces students to traditional stage construction techniques. Hands-on construction methods are explored, including the use of basic hand and power tools. Discussions also include stage lighting, costume, stage properties and makeup.

**TH-160: Fund. of Stage Design**
(3.00 cr.)
Takes the student through the design process from the formulation of a concept through final construction. Basic drawing, modeling and perspective work will be highlighted.

**TH-170: Fundamentals of Stage Light**
(3.00 cr.)
A basic course that introduces students to the qualities and properties of light and how light is used in a theatrical setting. Hands on work includes simple design and hanging techniques as well as the use of colors and patterns.

**TH-201: Theatre History**
(3.00 cr.)
Begins with the ancient origins of dramatic art and traces theatre history through Greek, Roman, Medieval, Renaissance and pre-modern periods. GEN ED:H

**TH-204: Singing for the Actor I**
(3.00 cr.)
This class is for the student who is interested in learning the art of performance in voice. It is strongly recommended for those interested in musical theater or performance. Class instruction focuses on the fundamentals of correct breathing, tone production and diction. This course introduces singing/acting techniques through practical application and repertoire study. Students study how to learn material and to develop a process to bring a song to performance level.

**TH-205: Movement for the Actor II**
(3.00 cr.)
This course is an intermediate level of study and continuation of skills and concepts learned in TH 105. This course is designed to further explore the techniques, styles and study of movement for the stage performer, in particular the actor and vocalist. Prerequisite: TH-105

**TH-206: Theatre Dance**
(3.00 cr.)
This course is a beginning level experience of technical training in stylized Jazz, Tap and Ballet combinations used in Broadway Musicals. Students are introduced to fundamental concepts and the historical background of Ballet, Tap and Jazz. Students have the opportunity to work on combinations and dance routines from various eras. Permission from Director of Theater Department is required.

**TH-207: Stage Makeup**
(3.00 cr.)
Students learn the basic principals and skills of theatrical make-up design and application. This course provides an introduction to research, design, and execution of make-up, including materials, application of straight, character, age and special effects make-up.

**TH-208: Children's Theatre**
(3.00 cr.)
This course is for theater majors only. This course is an introduction to the basic principals and techniques of producing theatre for young audiences. Emphasis is given to script evaluation and development, as well as the challenges associated with acting and directing for young audiences and working with child performers.

**TH-209: Singing for the Actor II**
(3.00 cr.)
This course is a continuation of vocal and performance techniques required to meet the demands of singing for the theatre. A practical course, students will be work on musicality through sight singing, singing harmonies, breathing techniques as well as learning how to analyze a song as dramatic form and sell it in audition or performance. Students will leave class prepared with three audition pieces for musical theatre. Students will master assigned material, developing a process to bring a song to performance level, and explore the musical theatre canon through sight-singing, work-shopping, and performing. Prerequisite: TH-204

**TH-212: Production and Performance II**
(1.00 cr.)
This course is designed to offer theater students a 45 hour internship to practice their craft. Credit can be received for acting, tech work, stage managing or special projects. Prerequisite: TH-111

**TH-213: Production and Performance III**
(1.00 cr.)
This course is designed to offer theater students a 45 hour internship experience for to practice their craft. Credit can be received for acting, tech work, stage managing or special projects. Prerequisite: TH-212

**TH-214: Production and Performance IV**
(1.00 cr.)
This course is designed to offer students a 45 hour internship experience to practice their craft. Credit can be received for acting, tech work, stage managing or special projects. Prerequisite: TH-213
TH-220: Acting II (3.00 cr.)
An advanced course that continues a student's exploration of acting techniques. Further work on character development includes advanced body and vocal techniques with exploration of stylization and different methods of acting. Prerequisite: TH-120. Must be a theater major. Permission of instructor required.

TH-221: Acting III (3.00 cr.)
Acting III is a continuation and extension of first-year work, with particular emphasis on characterization, text analysis, and advanced scene study. Acting techniques are applied to more complex dramatic forms, including genres in which language and characterization are particularly demanding. Theatre periods and style skills are developed which may include some or all of the following: Greek, Restoration and 19th Century playwrights. Prerequisite: TH-220

TH-222: Acting IV (3.00 cr.)
Acting IV is a continuation and extension of the work in Acting III, with particular emphasis on characterization, text analysis, and techniques of various stylistic demands. Development of theatre periods and style continue to be explored to include Ionesco, Beckett and Theatre of The Absurd. Career development is emphasized. Prerequisite: TH-221

TH-230: Readers Theatre (3.00 cr.)
Explores a presentational style that allows great works of literature to be presented without the formalities of a completely staged production. A workshop atmosphere is used to explore the works of major authors.

TH-250: Adv Independent Study Projects (3.00 cr.)
Allows a student to explore areas of special interest. Projects may include solo acting efforts, major scenic design, writing of a script or other semester long projects.
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.

This upper-division course focuses on the current issues and trends in 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).

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.

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.

This course 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. Student must have completed CO-210, CO-212, CO-217 and CO-219 or have permission of the instructor to register for this course.

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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.

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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.

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NU-303: Comprehensive Health Assessment (3.00 cr.)
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. Program Learning Outcomes 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. Prerequisites: Graduation from an accredited school of nursing. Registered Nurse license in good standing.

CJ-304: Natural & Technological Hazard (3.00 cr.)
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 mitigation 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. Student must successfully complete CJ-222 prior to registering for this course.

CJ-305: Counsel & Guidance of Offender (3.00 cr.)
This course is a survey of the basic principles and techniques of counseling offenders, including interviewing, case conferences, case histories, individual and group counseling, classification procedures, and team treatment participation. Student must have successfully completed EN-102 English Composition II prior to registering for this class.

CJ-308: Theories of Crime & Criminal (3.00 cr.)
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. Student must successfully pass CJ-222 prior to registering for this class.

CJ-309: Emergency Operations & Busn Cont (3.00 cr.)
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 3% 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. Student must successfully complete CJ-222 prior to registering for this course.

PSYCHOLOGY

PY-305: Psychology of Scientific Think (3.00 cr.)
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. Student must successfully complete PY-101 Intro to Psychology in order to register for this class.

PY-310: Psychology as a Profession (3.00 cr.)
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. Student must successfully pass PY-101 Introduction to Psychology prior to registering for this course.