

Cumberland Campus

Academic Catalog

2024

2025



FLAGSHIP PARTNER



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. Rowan College of South Jersey staff and advisors assist students on their pathway from RCSJ to Rowan University by providing application, advisement and transfer assistance to current students and alumni.

Rowan University transfer advisors are embedded in the RCSJ community and available on site at RCSJ Cumberland and Gloucester campus to provide transfer support and advisement.

From their very first day of classes, RCSJ 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 first time, full time freshmen in all majors.



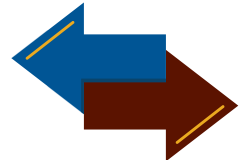
2+2 PROGRAM

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.



Academic Calendar 2024-2025

Fall Semester 2024

9/2	M	Labor Day College Holiday
9/3	T	First Day of Weekday Classes 15, 7A, 5A
9/7	S	First Day of Saturday Classes
10/4	F	End of 5A Classes
10/7	M	Start 10 and 5B Classes
10/16	W	Professional Development Day, no classes before 4 p.m.
10/18	F	End 7A Classes
10/28	M	Start 7B Classes
11/8	F	End 5B Classes
11/11	M	Start 5C Classes
11/27	W	No classes after 4 p.m.
11/28	H	Thanksgiving College Holiday
11/29	F	College Holiday
11/30	S	No classes
12/7	S	End of Saturday Classes
12/13	F	End of Weekday 15, 10, 7B, 5C

Winter Semester 2025

12/9	M	First Day of Winter Session A
12/16	M	First Day of Winter Session B
12/25-1/1		College closed
1/10	F	End of Winter Session A
1/14	T	End of Winter Session B
1/15	W	Professional Development Day

Spring Semester 2025

12/21	T	First Day of Weekday Classes 15, 7A, 5A
1/25	S	First Day of Saturday Classes
2/21	F	End of 5A Classes
2/24	M	Start 10 and 5B classes
3/7	F	End 7A Classes
3/17-3/21		Spring Break
3/24	M	Start 7B classes
4/4	F	End 5B classes
4/7	M	Start 5C classes
4/18	F	College Holiday
4/19	S	College closed
5/3	S	Saturday Classes End
5/8	H	Last Day of Classes 15, 10, 7B, 5C
5/15	H	Commencement – <i>Cumberland campus</i>
5/16	F	Commencement – <i>Gloucester campus</i>

Summer Semester 2025

5/19	M	Start of Summer Classes 15, 7A, 5A
5/26	M	Memorial Day Holiday
6/19	H	Juneteenth Holiday College closed & End of 5A classes
6/23	M	Start 10 & 5B classes
7/3	H	End 7A classes
7/4	F	Independence Day
7/14	M	Start 7B classes
7/24	H	End 5B classes
7/28	M	Start 5C classes
8/27	W	Last Day of Summer Classes 15, 7B, 5C

Welcome to Rowan College of South Jersey



Frederick Keating, Ed.D.
President

It is with great pleasure that I welcome you to Rowan College of South Jersey (RCSJ). Whether you are a returning student or joining our community for the first time, I extend my warmest greetings to you.

I am honored to be part of an institution that prides itself on academic excellence, community engagement, and student success. At RCSJ, we are committed to providing you with not only a quality education at an affordable price but also a supportive environment where you can thrive and achieve your goals.

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'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 your RCSJ experience. Students pursuing a bachelor's degree can take advantage of unique academic and tuition-saving programs like 3+1, 2+2 and Traditional Transfer. 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 students through tuition employee discounts, scholarship opportunities, and employment pathway and retention.

As you navigate through your courses and engage in various activities on campus, I encourage you to take advantage of the resources available to you. RCSJ supports you through free tutoring, advising, mental health services, and academic cohorts in addition to providing over \$1 million in scholarship opportunities, financial aid assistance, and convenient payment plans. As a student athlete, you have 16 sports programs to choose from as well as taking pride in our two nationally and regionally ranked athletic teams. Whether it's participating in student clubs and organizations, accessing academic support services, competing in sports, or utilizing our state-of-the-art facilities, RCSJ offers a wealth of opportunities to enhance your college experience.

In addition to academics, RCSJ values diversity, inclusivity, and respect for all individuals. We celebrate the unique perspectives and backgrounds that each of you brings to our community. By embracing diversity, we foster an environment where everyone feels valued and empowered to succeed. We are proud to partner with Lincoln University (Pennsylvania), Delaware State University, Rutgers-Newark, and Saint Peter's University to provide our students transfer partnership agreements with these prestigious HBCU and HSI institutions.

As you settle into your classes and begin to forge new friendships, remember that RCSJ is not just a place to earn a degree but also a place to create lasting memories and lifelong connections. Get involved, explore your interests, and make the most of your college experience.

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

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 Jim Jefferson, *Deputy Director*
 Nicholas DeSilvio
 Denice DiCarlo
 Joann Gattinelli, *Education Liaison*
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Cumberland County

Board of County Commissioners

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Rowan College of South Jersey

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 Frederick Keating, Ed.D., *ex officio*

List as of April 22, 2024

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

The Rowan College of South Jersey faculty and staff directory is available at [RCSJ.edu/Personnel](https://www.rcsj.edu/Personnel) or can be found in the Student Handbook publication found at [RCSJ.edu/Publications](https://www.rcsj.edu/Publications).

Information in the 2024-25 Rowan College of South Jersey Cumberland Academic Catalog is accurate at the date of publication in September 2024 and is subject to change.

Core Values

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

Commitment to Students

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

Commitment to Excellence in Education

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

Contribution to Community

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

Commitment to Access and Diversity

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

Quality Campus Environment

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

Social Responsibility

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

Civic Duty/Commitment

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

Core Competencies

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

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

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

— June 2020

— Fall 2018

Accreditation

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

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

- The Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs, 9355 – 113th St. N., #7709, Seminole, FL 33775, phone: 727-210-2350, email: mail@caahep.org, in collaboration with Joint Review Committee on Education in Diagnostic Medical Sonography, 6021 University Boulevard, Suite 500, Ellicott City, MD 21043, phone: 443-973-3251, email: mail@jrcdms.org.
- The Nuclear Medicine Technology program is accredited by Bureau of X-ray Compliance, New Jersey Department of Environmental Protection, Division of Air Quality and Radiation Protection, 25 Arctic Parkway, P.O. Box 420, Mail Code: 25-01, Trenton, New Jersey 08625-0420.
- 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. Questions may be addressed to the Board of Nursing and the ACEN at their respective address.
- The Paralegal (Gloucester campus) degree and certificate programs are approved by the American Bar Association (ABA) – ABA Standing Committee on Paralegals, 321 N. Clark Street, Chicago, IL 60654-7598, americanbar.org/groups/paralegals.
- The Physical Therapist Assistant program at Rowan College of South Jersey is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 3030 Potomac Avenue, Suite 100, Alexandria, VA 22305-3085, phone: 703-706-3245, email: accreditation@apta.org, website: http://www.capteonline.org. If needing to contact the program directly, please call 856-415-2188 or email edoyle@rcsj.edu.
- The Practical Nursing (Cumberland campus) certificate program is accredited by the New Jersey Division of Consumer Affairs, New Jersey Board of Nursing, 124 Halsey Street, P.O. Box 45010, Newark, NJ 07101, phone: 973-504-6430, https://www.njconsumeraffairs.gov/nur
- The Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606, phone: 312-704-5300, jrcert.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 along with the following COAs, Accounting, Business Software Tools, Digital Marketing, Management are accredited by the Accreditation Council for Business Schools and Programs (ACBSP), 11520 West 119th Street, Overland Park, KS 66213, phone: (913) 339-9356, acbsp.org.
- The Dental Assisting program is pending accreditation through the Commission on Dental Accreditation (CODA) 211 East Chicago Avenue, Chicago, IL 60611 phone: 800-232-6108, https://coda.ada.org/ and the New Jersey Board of Dentistry, 124 Halsey Street, P.O. Box 45010, Newark, NJ 07101, phone: 973-504-6405, https://www.njconsumeraffairs.gov/den/Pages/default.aspx. Questions may be addressed to the Board of Dentistry and CODA at their respective address.

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, Vice President, Chief Diversity Officer, Diversity and Equity, Title IX and Compliance at 856-415-2154 or ajones@rcsj.edu; Nathaniel Alridge Jr, J.D.,-Cumberland Campus, Executive Director, Threat Assessment Management, Title IX, Diversity and Judicial Affairs at 856-498-9948 or nalridge@rcsj.edu. For disabilities, contact Carol Weinhardt-Gloucester Campus, Director Department of Special Services, ADA/504 Officer at 856-415-2247 or cweinhar@rcsj.edu, Meredith Vicente-Cumberland Campus, Senior Director, Accessibility and Support Services 856-200-4688 or 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 July 1, 2024.

TUITION	
Gloucester and Cumberland County residents	\$126 per credit
Out-of-county residents ¹	\$154 per credit
High School Option (HSOP)	\$75 per credit (<i>No limit on number of courses</i>)
High School Dual Option	\$50 per credit (<i>Classes taken at High school; if taken at RCSJ, pay HSOP rate</i>)
Partnership Agreements	33-50% Discount (<i>Applies only to tuition and per credit fees</i>)
Senior Citizen Discount	100% Discount (<i>On tuition only</i>)
Out -of-County Veterans	Charged in-county rate
REQUIRED FEES	
General Service Fee	\$42.00 per credit
Capital Construction Fee	\$2.00 per credit
Admin System Fee	\$2.00 per credit
Laptop	\$600-\$800 ☐
PROGRAM FEES	
For students enrolled in Nursing and Health Professions Program and Radiography	\$1,750 Fee is applied per semester
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	40.00
C. Materials Fee – Science	95.00
D. Applied Music	230.00
E. Foreign Language (per credit)	10.00
F. First Day/Digital Books	43.75-129.00 [§] per course
G. Lab Fee – 1 Contact	126.00 ^x
H. Lab Fee – 2 Contacts	252.00 ^x
I. Lab Fee – 3 Contacts	378.00 ^x
K. Curriculum Review Fee	425.00
O. Online Technology Fee	75.00
P. Materials Fee – BI 203 Microbiology	150.00 ^x
Q. Materials Fee – BI 221 Cell & Molecular Biology	150.00 ^x

ADDITIONAL FEES	
Graduation Petition Fee	65.00
Payment Plan Fee	40.00
Transcripts (processing options)	\$5 plus ☐ Per standard (3-5 business days) \$10 plus ☐ Per expedited (next business day) \$25 (same day)
Replacement Diploma Fee	35.00
LEXIS-NEXIS Annual Fee [°]	☐
CCMA, Phlebotomy, EKG and Medical Assistant Fees [°]	☐
Selective Admissions Entrance Exam	☐ plus 30.00
Selective Admissions Late Registration/Reschedule Fee	15.00
Other Standardized Test Fees	☐ plus 30.00
Accuplacer Challenge Fee	10.00 per section
Stop &/or Reissue Check Fee	☐ plus 30.00
Returned Check Fee	☐ plus 30.00
ID card Replacement Fee	10.00
Liability Insurance (Nursing and Health Professions Students only)	☐
Portfolio Assessment for Prior Learning	125.00

[°] 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.

^a 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.

+ The NET is NOT required for applicants to Rowan College's Nursing program. Rowan College is a NET testing site for other Nursing programs.

** County borrowers from communities not participating in the GOLD System.

* These course fees are in accordance with programs listed in the Academic Catalog.

(Reference Board Policy 6011)

PAYMENT POLICY

Tuition and fees are payable at the time of registration, or by the payment deadline if the student is enrolled prior to open registration. It is the student’s responsibility to make any arrangements for alternate payment solutions, such as a payment plan, financial aid, scholarships, student loans or a third party payment arrangement.

A student is expected to meet or to make arrangements to meet all financial obligations as they occur at the College. Any student with outstanding financial obligations to the College will not be permitted to register for courses, receive transcripts or a diploma, or have transcripts sent on his/her behalf until any financial obligation is satisfied. The College also reserves the right to cancel previously-registered courses of students who do not meet the payment deadline.

Please note that non-refundable tuition deposits, e.g. Nursing, 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

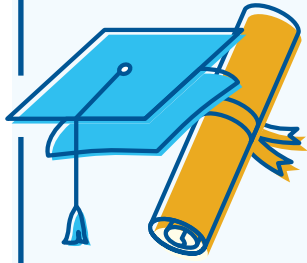
•COURSE SECTION NUMBERS

- 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

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

•BUILDING CODES

- | Main Campus | Satellite Locations |
|---------------------------------|-------------------------------------------|
| ACAD – Arpino Center | CLAY – Clay College |
| ADM – Administration | CMI –Cumberland Mutual Insurance Co. |
| CEC – Luciano Conference Center | FCI – Federal Correctional Instit. |
| FPA – Guaracini Arts Center | MAIC – Millville Arts & Innovation Center |
| LIB – Library | SCOT – Scott Hall Stem Center - Glo. |
| MILL – Mill Building | BHS – Bridgeton High School |
| SCI – Alampi Science Building | CTEC – Cumberland Tech Ctr. |
| STDT – Student Center | MHS – Millville High School |
| UNIV – University Center | SAP – St. Augustine Prep |
| WHT – Navone Healthcare | VHS – Vineland High School |
| | CRHS – Cumberland Regional High School |



A Better Bachelor's Degree Option

Save even more when you earn your bachelor's degree through the Rowan "3+1" program. Complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor's degree in select majors for less than \$30,000!

- | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Applied Professional Communications ^(GC) • Computing & Informatics ^(CC) • Data Analytics ^(GC) | <ul style="list-style-type: none"> • Emergency Management • Fitness Management ^(GC) • Global Business & Leadership • Inclusive Education ^(GC) | <ul style="list-style-type: none"> • Law & Justice Studies • Nursing • Psychology • Radio/Television/Film |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|

^(GC) Gloucester campus only ^(CC) Cumberland campus only

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](https://www.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.

Online 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?"

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

Fully online programs at RCSJ on both campuses:

- Accounting
- A.S. Arts & Sciences
- Business Administration
- Computer Graphic Arts: Game/Interactive Design Option
- Computer Graphic Arts: Print Design Option
- Computer Information Systems
- Digital Marketing
- Entrepreneurship
- Human Resource Management
- Psychology
- Technical Studies

Fully online programs at RCSJ Cumberland only:

- Liberal Arts
- Liberal Arts: Social Science Option
- Network Management

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:

Homework Assignments	<ul style="list-style-type: none">• Open Computer Labs in Library• Academic Support Center in the Learning Commons (LC)
Internet Access	<ul style="list-style-type: none">• Open Computer Labs in Library • LC
Placement/Makeup Testing	<ul style="list-style-type: none">• LC• Academic Testing Center
Internship and Career Planning	<ul style="list-style-type: none">• College Center, second floor Room 212
eLearning/ Distance Education	<ul style="list-style-type: none">• Open Computer Labs in Library • LC
Report Writing	<ul style="list-style-type: none">• Open Computer Labs in Library • LC
Research	<ul style="list-style-type: none">• Library
Academic Support Center	<ul style="list-style-type: none">• LC (Room 603)
Computer Graphic Arts	<ul style="list-style-type: none">• Open Computer Labs in Library

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 DEGREE

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

	A.A.	A.S.*	A.A.S.*
General Education**	33	30	20
Electives	27	30	30
Total	60	60	60

* 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 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.



DIVISION OF Behavioral Science 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

Grace Corson, Social Services



4 academic delivery methods:



In-Person



Live Online



Hybrid



Traditional Online

Find Your Program

From Child Advocacy to Criminal Justice, Psychology to Emergency Management, Social Service 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's Division of Behavioral Science and Law & Social Justice 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.



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

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](https://www.rcsj.edu/enroll) and complete the interest form.

Alcohol & Drug Counseling, A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> SO 201 Introductory Sociology	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> HI 103 World History & Culture I or HI 104 World History & Culture II	3
<input type="checkbox"/> CS 110 Technology Literacy	2
	14

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> LS 101 Elementary Spanish I or LS 102 Elementary Spanish II	3
<input type="checkbox"/> SO 207 Social Minorities & Intergroup Relations	3
<input type="checkbox"/> SO 217 Human Behavior in the Social Environment I	3
<input type="checkbox"/> BI 108 Human Biology	4
	16

SECOND YEAR - Fall Semester

<input type="checkbox"/> MA 205 Statistics	3
<input type="checkbox"/> PY 202 Understanding Addictive Behavior	3
<input type="checkbox"/> PY 209 Abnormal Psychology	3
<input type="checkbox"/> PY 212 Social Psychological Counseling	3
<input type="checkbox"/> SO 219 Human Behavior in the Social Environment II	3
	15

Spring Semester

<input type="checkbox"/> PY 205 Psychopharmacology	3
<input type="checkbox"/> SO 225 Addictions Counseling	3
<input type="checkbox"/> SO 226 Addictions Recovery	3
<input type="checkbox"/> SO 227 Core Functions and Global Criteria	3
<input type="checkbox"/> SO 223 Alcohol & Drug Field Work	3
	15

TOTAL CREDITS: 60



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](https://www.rcsj.edu/enroll)
and complete the interest
form.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
<input type="checkbox"/> PY 101 General Psychology	3
	<hr/> 9

Spring Semester

<input type="checkbox"/> CS 101 OR CS 102 Introduction to Microcomputers or Applications on the Microcomputer	3
<input type="checkbox"/> PY 202 Understanding Addictive Behavior	3
<input type="checkbox"/> PY 212 Social Psychological Counseling	3
<input type="checkbox"/> SO 217 Human Behavior & the Social Environment I	3
	<hr/> 12

SECOND YEAR - Fall Semester

<input type="checkbox"/> CJ 213 Criminal Psychopathology	3
<input type="checkbox"/> PY 205 Psychopharmacology	3
<input type="checkbox"/> SO 220 Introduction to Social Welfare & Social Work	3
<input type="checkbox"/> SO 223 Alcohol & Drug Field Work	3
	<hr/> 12

TOTAL CREDITS: 33



[ART.THERAPY.AA with CIP 24.0101]

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 [RCSJ.edu/Enroll](https://www.rcsj.edu/enroll) and complete the interest form.

Art Therapy, A.A.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Information Technology	2-3
<input type="checkbox"/> AR 110 Fundamentals of Drawing	3
<input type="checkbox"/> SO 201 Introduction to Sociology	3
<input type="checkbox"/> HS 103 World History & Culture I or HS 104 World History & Culture II	<u>3</u>
	14-15

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> AR 107 Art History I	3
<input type="checkbox"/> CR 101 Ceramics I	3
<input type="checkbox"/> MA 205 Statistics	3
<input type="checkbox"/> PY 101 General Psychology	<u>3</u>
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> AR 103 Introduction to Art Therapy and Methods	3
<input type="checkbox"/> SO 207 Social Minorities and Intergroup Relations	3
<input type="checkbox"/> SO 217 Human Behavior and the Social Environment I	3
<input type="checkbox"/> SP 203 Speech	3
<input type="checkbox"/> BI 108 Human Biology	<u>4</u>
	16

Spring Semester

<input type="checkbox"/> AR 104 Introduction to Art Therapy in Practice	3
<input type="checkbox"/> AR 200 Two-Dimensional Design	3
<input type="checkbox"/> LS 101 Introduction to Spanish I (or higher)	3
<input type="checkbox"/> SO 212 Social Psychological Counseling	3
<input type="checkbox"/> SO 219 Human Behavior and the Social Environment II	<u>3</u>
	15

TOTAL MINIMUM CREDITS: 60



[CHILD.ADV.AA; CIP Code 13.1011]

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.

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.

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

Child Advocacy, A.A.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> CA 101 Introduction to Child Advocacy	3
<input type="checkbox"/> SO 201 Introduction to Sociology	3
<input type="checkbox"/> CA 102 The Ecological System and the Developing Child	3
<input type="checkbox"/> CS 110 Technology Literacy	2
	14

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> CA 103 Cultural Competencies in Child Welfare	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics Elective (excluding MA115)	3
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> HI 101 Western Civilization or HI 102 Western Civilization II	3
<input type="checkbox"/> BI 108 Human Biology	4
<input type="checkbox"/> CA 104 Children and Justice	3
<input type="checkbox"/> MA 205 Statistics I	3
	16

Spring Semester

<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> General Education Diversity Elective (GE 101 World Geography or GE 102 Cultural Geography suggested)	3
<input type="checkbox"/> HI 201 US History I or US History II	3
<input type="checkbox"/> General Education Humanities Elective (AR101 recommended)	3
<input type="checkbox"/> CA 105 Child Advocacy Field Work	3
	15

TOTAL CREDITS: 60



[JS.CJ.AS; CIP Code 43.0107]

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

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.

This program encourages comprehensive understanding of the nature of crime and the goals of the criminal justice system. Students are introduced to organizations, occupations and regulations that govern the criminal justice system. The program prepares students to enter a specific criminal justice field or continue their studies at a four-year college/university. Two themes are critical throughout the program: leadership and ethics.

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](https://www.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

<input type="checkbox"/> CJ 106 Introduction to Criminal Justice	3
<input type="checkbox"/> MA 109 Principles of Mathematics	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> SO 202 Contemporary Social Problems	3
	15

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> CJ 207 The Administration of Justice	3
<input type="checkbox"/> CJ 104 Criminal Law	3
<input type="checkbox"/> SP 203 Oral Communication	3
<input type="checkbox"/> MA 205 Statistics	3
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> PI 241 Forensics I	4
<input type="checkbox"/> CJ 102 Introduction to Criminology	3
<input type="checkbox"/> Criminal Justice Elective	3
<input type="checkbox"/> HS 106 Healthcare Provider Emergency Response with BLS Certification	1
<input type="checkbox"/> PH 102 Ethics	3
	14

Spring Semester

<input type="checkbox"/> PI 242 Forensics II	4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> CJ 111 Constitutional Issues in Criminal Justice	3
<input type="checkbox"/> SO 228 Sociology of the Juvenile Delinquency	3
<input type="checkbox"/> Criminal Justice Elective	3
	16

TOTAL CREDITS: 60

***Program Electives:**

Any Criminal Justice course, or CS 241 Computer Forensics (3 cr)



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

<input type="checkbox"/> CJ 301 Drugs and Crime in America	3
<input type="checkbox"/> CJ 305 Counseling and Guidance of the Offender	3
<input type="checkbox"/> AR 101 Art Appreciation or MU 101 Music Appreciation	3
<input type="checkbox"/> Rowan Core Literacy Competency	3
<input type="checkbox"/> CJ 205 Criminal Investigation	3
	<hr/>
	15



Spring Semester

<input type="checkbox"/> CJ 308 Theories of Crime and Criminality	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> PS 201 American Federal Government	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
	<hr/>
	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:
Stephen Sweeney, 3+1 Assistant Director,
ssweene1@rcsj.edu

[RCSJ.edu/3plus1](https://rcsj.edu/3plus1)



Criminal Justice, CERT

[JS.CJ.AC; CIP Code 43.0107]

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](https://www.rcsj.edu/enroll)
and complete the interest
form.

FIRST YEAR - Fall Semester

<input type="checkbox"/> CJ 106 Introductory to Criminal Justice	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 109 Principles of Mathematics	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> SO 201 Introductory Sociology or SO 202 Contemporary Social Problems	<u>3</u>
	15

Spring Semester

<input type="checkbox"/> CJ 102 Introductory to Criminology	3
<input type="checkbox"/> CJ 104 Criminal law	3
<input type="checkbox"/> CJ 207 Administration of Justice	3
<input type="checkbox"/> CJ 115 Diversity Issues in Criminal Justice	3
<input type="checkbox"/> SP 203 Oral Communication	<u>3</u>
	15

TOTAL CREDITS: 30

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



[JS.CORR.AS; CIP Code 43.0107]

Associate in Science (A.S.) – Transfer

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.

This program encourages comprehensive understanding of the nature of crime and the goals of the criminal justice system. Students are introduced to organizations, occupations and regulations that govern the criminal justice system. The program prepares students to enter a specific criminal justice field or continue their studies at a four-year college/university. Two themes are critical throughout the program: leadership and ethics.

This program is designed for students who are interested in law enforcement and corrections or want to continue their studies at a four-year college/university. Students are introduced to organizations, occupations and regulations that govern the criminal justice system and a range of job opportunities that awaits graduates as America becomes a more security-conscious society.

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

Criminal Justice/ Corrections, A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> CJ 106 Introduction to Criminal Justice	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 109 Principles of Mathematics	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
<input type="checkbox"/> PY 101 General Psychology	3
	15

Spring Semester

<input type="checkbox"/> CJ 102 Introductory to Criminology	3
<input type="checkbox"/> CJ 104 Criminal law	3
<input type="checkbox"/> CJ 207 The Administration of Justice	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> SP 203 Oral Communication	3
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> CJ 211 Institutional Treatment of the Offender	3
<input type="checkbox"/> CJ 212 Principles of Corrections Operations	3
<input type="checkbox"/> PI 241 Forensics I	3
<input type="checkbox"/> HS 106 Healthcare Provider Emergency Response with BLS Certification	1
<input type="checkbox"/> MA 205 Statistics I	3
	14

Spring Semester

<input type="checkbox"/> CJ 214 Correctional Counseling & Interviewing	3
<input type="checkbox"/> CJ 111 Constitutional Issues in Criminal Justice	3
<input type="checkbox"/> PI 242 Forensics II	4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> PH 102 Ethics	3
	16

TOTAL CREDITS: 60

Program Learning Outcomes

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

- Illustrate cause and effect relationships within the continuum and how they impact, both positively and negatively, the outcomes desired by the community as a whole.
- 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.



[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

Criminal Justice/ Emergency Management Option, A.S.

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 109 Principles of Mathematics	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> CJ 107 Introduction to Emergency Management and Homeland Security	3
<input type="checkbox"/> SP 203 Oral Communication	3
	15

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 205 Statistics I	3
<input type="checkbox"/> SO 202 Contemporary Social Problems	3
<input type="checkbox"/> CJ 108 Planning for Emergencies	3
<input type="checkbox"/> PS 201 American Federal Government	3
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> PI 241 Forensic Science I	4
<input type="checkbox"/> CJ 205 Criminal Investigation	3
<input type="checkbox"/> CJ 222 Incident Command: Theory and Practice	3
<input type="checkbox"/> HS 106 Healthcare Provider Emergency Response with BLS Certification	1
<input type="checkbox"/> CJ 103 Introduction to Private Security	3
	14

Spring Semester

<input type="checkbox"/> GL 115 Introduction to Geographic Information Systems	3
<input type="checkbox"/> PH 102 Ethics	3
<input type="checkbox"/> PI 242 Forensics II	4
<input type="checkbox"/> CJ 102 Introduction to Criminology	3
<input type="checkbox"/> CJ 223 Global Catastrophes	3
	16

TOTAL CREDITS: 60

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



After completing the Criminal Justice/Emergency Management Option, A.S., students may choose to continue with the bachelor's degree pathway at RCSJ.

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

Disaster Preparedness & Emergency Management

THIRD Year – Fall Semester

<input type="checkbox"/> EC 101 Principles of Economics I	3
<input type="checkbox"/> AR 101 Art Appreciation or MU 101 Music Appreciation	3
<input type="checkbox"/> CJ 300 Critical Infrastructure	3
<input type="checkbox"/> SCIL Elective	3
<input type="checkbox"/> Free Elective	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> CJ 309 Emergency Operations and Business Continuity	3
<input type="checkbox"/> CJ 304 Natural and Technological Hazards: Mitigation and Response	3
<input type="checkbox"/> LIT Elective	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
	<hr/> 15



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



Industry & Employment Opportunities

Bachelor's

Director of Emergency Management,
Logistics Management, Public Safety Officer

Master's

College Professor

Questions?

About 3+1:

Stephen Sweeney, 3+1 Assistant Director,
ssweene1@rcsj.edu

[RCSJ.edu/3plus1](https://www.rcsj.edu/3plus1)



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

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.

Emergency Management, CERT

FIRST YEAR - Fall Semester

<input type="checkbox"/> CJ 107 Introduction to Emergency Management and Homeland Security	3
<input type="checkbox"/> CJ 222 Incident Command: Theory and Practice	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PI 241 Forensic Science I	4
<input type="checkbox"/> CJ 103 Introduction to Security	3
	16

Spring Semester

<input type="checkbox"/> GL 115 Introduction to Geographic Information Systems	3
<input type="checkbox"/> PI 242 Forensics II	4
<input type="checkbox"/> CJ 108 Planning for Emergencies	3
<input type="checkbox"/> CJ 223 Global Catastrophes	3
<input type="checkbox"/> SP 203 Oral Communication	3
<input type="checkbox"/> 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.

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



[JS.FOREN.TECH.AS; CIP Code 43.0107]

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

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.

This program encourages comprehensive understanding of the nature of crime and the goals of the criminal justice system. Students are introduced to organizations, occupations and regulations that govern the criminal justice system. The program prepares students to enter a specific criminal justice field or continue their studies at a four-year college/university. Two themes are critical throughout the program: leadership and ethics.

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](https://www.rcsj.edu/enroll) and complete the interest form.

Criminal Justice/ Forensics & Technology, A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> CJ 106 Introduction to Criminal Justice	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> SO 201 Introduction to Sociology	3
	15

Spring Semester

<input type="checkbox"/> CJ 207 The Administration of Justice	3
<input type="checkbox"/> CJ 104 Criminal law	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 109 Principles of Mathematics	3
<input type="checkbox"/> SP 203 Oral Communication	3
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> CJ 120 Cybercrime or CS 241 Computer Forensics	3
<input type="checkbox"/> CJ 102 Introduction to Criminology	3
<input type="checkbox"/> PH 102 Ethics	3
<input type="checkbox"/> HS 106 Healthcare Provider Emergency Response with BLS Certification	1
<input type="checkbox"/> PI 241 Forensics I	4
	14

Spring Semester

<input type="checkbox"/> CJ 215 Criminal Justice Fieldwork or Criminal Justice Elective	3
<input type="checkbox"/> CJ 216 Crime Analysis & Mapping	3
<input type="checkbox"/> CJ 111 Constitutional Issues in Criminal Justice	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> PI 242 Forensics II	4
	16

TOTAL CREDITS: 60



[JS.CJ.AS; CIP Code 43.0107]

Associate in Science (A.S.) – Transfer

This program encourages comprehensive understanding of the nature of crime and the goals of the criminal justice system. Students are introduced to organizations, occupations and regulations that govern the criminal justice system. The program prepares students to enter a specific criminal justice field or continue their studies at a four-year college/university. Two themes are critical throughout the program: leadership and ethics.

Program Learning Outcome

Students who have completed the program will 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](https://www.rcsj.edu/enroll) and complete the interest form.

Justice Studies, A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> CJ 207 Administration of Justice	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> CS 110 Technology Literacy	2
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PA 101 Public Administration	3
	14

Spring Semester

<input type="checkbox"/> CJ 102 Criminology & Penology	3
<input type="checkbox"/> CJ 104 Criminal Law	3
<input type="checkbox"/> CJ 115 Diversity Issues in Criminal Justice	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> CS 241 Computer Forensics or PY 209 Abnormal Psychology	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> Criminal Justice Program Elective*	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Mathematics Elective (excluding MA 115)	3
	15

Spring Semester

<input type="checkbox"/> CJ 215 Criminal Justice Fieldwork	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> PS 201 American Federal Government or PS 203 State & Local Government	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Science Elective with lab	4
	16

TOTAL CREDITS: 60

*Program Electives:

Any Criminal Justice course, or CS 241 Computer Forensics (3 cr)



[PSYCH.AA; CIP Code 42.0101]

Associate in Arts (A.A.)

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

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

Psychology, A.A.

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Mathematics Elective	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> FS 101 Freshman Seminar	1
<input type="checkbox"/> HI 101 Western Civilization I	3
	13

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 205 Statistics I	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
<input type="checkbox"/> HI 102 Western Civilization II	3
<input type="checkbox"/> Psychology Elective	3
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> BI 108 Human Biology	4
<input type="checkbox"/> General Education Literature Elective	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> AR 101 Art Appreciation or MU 101 Music Appreciation	3
<input type="checkbox"/> Psychology Elective	3
	16

Spring Semester

<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> PH 101 Introduction to Philosophy	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> Psychology Elective	3
	16

TOTAL CREDITS: 60



After completing the Psychology A. A., students may choose to continue with the bachelor's degree pathway at RCSJ.

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

Psychology 3+1

THIRD YEAR — Fall Semester

<input type="checkbox"/> PY 305 Psychology of Scientific Thinking	3
<input type="checkbox"/> PY 240 Social Psychology	3
<input type="checkbox"/> RL 102 World Religions	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
	15



Spring Semester

<input type="checkbox"/> PY 310 Psychology as a Profession and Practice	3
<input type="checkbox"/> PY 209 Abnormal Psychology	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> 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's

Registered Behavioral Technician, Mental Health Associate, Therapeutic Technician

Master's

College Professor, Clinical Psychologist, Behavioral Analyst

Questions?

About 3+1:

Stephen Sweeney, 3+1 Assistant Director,
ssweene1@rcsj.edu

[RCSJ.edu/3plus1](https://rcsj.edu/3plus1)



[SOC.SERV.AS; CIP Code 44.0701]

Associate in Science (A.S.) – Transfer

In today's fast-paced, complex society, there's a vital need for compassionate, professional social workers. This program taps into 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 U.S. Department of Labor indicates that social worker jobs will be particularly abundant during the next decade. This will be especially true in New Jersey due to the state's older-than-average population and its growing popularity as a retirement area.

This program allows students to tap into their natural ability to interact with others, and that capacity is refined into a valuable skill with rewarding professional opportunities.

Students receive the practical and theoretical education necessary for success, professionally or at a four-year college.

Program Learning 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](https://www.rcsj.edu/enroll) and complete the interest form.

Social Service, A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Technology Literacy	2-3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> HI 103 World History and Culture I or HI 104 World History and Culture II	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
<input type="checkbox"/> General Education Foreign Language Elective	3
	14-15

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 205 Statistics I	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> SO 202 Contemporary Social Problems	3
<input type="checkbox"/> SP 203 Effective Speech	3
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> BI 108 Human Biology	4
<input type="checkbox"/> PA 101 Public Administration	3
<input type="checkbox"/> SO 207 Social Minorities & Intergroup Relations	3
<input type="checkbox"/> SO 217 Human Behavior in the Social Environment I	3
<input type="checkbox"/> SO 221 Social Service Fieldwork I	3
	16

Spring Semester

<input type="checkbox"/> SO 212 Social Psychological Counseling	3
<input type="checkbox"/> SO 219 Human Behavior in the Social Environment II	3
<input type="checkbox"/> SO 220 Introduction to Social Welfare & Social Work	3
<input type="checkbox"/> SO 222 Social Service Field Work II	3
<input type="checkbox"/> 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



DIVISION OF Business Studies

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

RCSJ.edu/Business

Jasmine Kobeissi, Accounting



4 academic delivery methods:



In-Person



Live Online



Hybrid



Traditional Online

Find Your Program

From Accounting to Digital Marketing, Business Administration 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 offers exclusive benefits through its premier partnership with Rastelli Foods Group and is home to the Alpha Beta Gamma national business honor society.

Find Your Opportunity

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



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.

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> AC 103 Accounting I	4
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 113 Introduction to Computers	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 105 Intermediate Algebra	4
	18

FIRST YEAR - Spring Semester

<input type="checkbox"/> AC 104 Accounting II	4
<input type="checkbox"/> CS 119 Spreadsheets - EXCEL	4
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> EN 204 Business Communications	3
<input type="checkbox"/> MA 205 Statistics	3
	17

SECOND YEAR - Fall Semester

<input type="checkbox"/> AC 221 Managerial Accounting	3
<input type="checkbox"/> AC 231 Federal Income Taxes	3
<input type="checkbox"/> BU 109 Business Law I	3
<input type="checkbox"/> BU 123 Personal and Professional Branding	1
<input type="checkbox"/> EC__ Economics Elective	3
	13

Spring Semester

<input type="checkbox"/> AC 207 Accounting Information Systems	3
<input type="checkbox"/> BU 110 Business Law II	3
<input type="checkbox"/> CS 207 Management Information Systems	3
<input type="checkbox"/> IC 211 Internship Career Connections	3
	12

TOTAL CREDITS: 60



Accounting, COA

[ACCT.COA; CIP Code 52.0302]

Certificate of Achievement



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

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.

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



Business Administration, A.S.

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

[BUS.ADM.AS; CIP Code 52.0201]

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](https://www.rcsj.edu/enroll) and complete the interest form.

FIRST YEAR - Fall Semester

<input type="checkbox"/> AC 103 Accounting I	4
<input type="checkbox"/> CS 113 Introduction to Computers	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 122 Business Calculus	4
	15

Spring Semester

<input type="checkbox"/> AC 104 Accounting II	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Humanities Elective	3
	13

SECOND YEAR - Fall Semester

<input type="checkbox"/> BU 106 Principles of Management* or AC 221 Managerial Accounting or PY 101 General Psychology or SO 201 Introduction to Sociology	3
<input type="checkbox"/> BU 109 Business Law I	3
<input type="checkbox"/> BU 207 Principles of Marketing	3
<input type="checkbox"/> EC 201 Principles of Economics I	3
<input type="checkbox"/> MA 205 Statistics I	3
	15

Spring Semester

<input type="checkbox"/> BU 110 Business Law II	3
<input type="checkbox"/> CS 114 Fundamentals of Programming** or General Education Elective	4
<input type="checkbox"/> CS 207 Management Information Systems	3
<input type="checkbox"/> EC 202 Principles of Economics II	3
<input type="checkbox"/> General Education Science Elective with lab	4
	17

TOTAL CREDITS: 60

* 3+1 students should take PY101.
If transferring to Rowan University,
choose PY 101 or SO 201.
If transferring to Rutgers–Camden,
choose AC 221.

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



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

<input type="checkbox"/> BU 310 Business Logistics	3
<input type="checkbox"/> BU 300 Applied Organizational Behavior	3
<input type="checkbox"/> World Language 101 Level Elective	3
<input type="checkbox"/> International Course Elective	3
<input type="checkbox"/> Free Elective	3
	<hr/>
	15



Spring Semester

<input type="checkbox"/> BU 304 Issues in Business: Directed Research	3
<input type="checkbox"/> BU 308 Applied Human Resource Management II	3
<input type="checkbox"/> IC 211 Internship Career Connections	3
<input type="checkbox"/> World Language 102 Level Elective	3
<input type="checkbox"/> EN ____ Literature Course Elective	3
	<hr/>
	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

Business Consultant, Global Project Manager,
International Marketing Director

Questions?

About 3+1:

Stephen Sweeney, 3+1 Assistant Director,
ssweene1@rcsj.edu

About the program:

Danielle Morganti, Associate Professor,
dmorganti@rcsj.edu

[RCSJ.edu/3plus1](https://rcsj.edu/3plus1)



Business Software Tools, COA

- | | |
|-----------------------------------------------------------------------------------------|---|
| <input type="checkbox"/> CS 113 Introduction to Computers | 4 |
| <input type="checkbox"/> CS 119 Spreadsheets - EXCEL | 4 |
| <input type="checkbox"/> CS 211 Relational Databases | 4 |
| <input type="checkbox"/> AC 207 Accounting Information Systems or
CS ___ CS Elective | 3 |
| <input type="checkbox"/> BU 123 Personal & Professional Branding | 1 |

TOTAL CREDITS: 16

[BUSS.COA; CIP Code 11.0201]
Certificate of Achievement



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

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](https://www.rcsj.edu/enroll)
and complete the interest
form. ✦



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

[CGA.GAME.DSGN.AAS; CIP Code 11.0803]

Associate in Applied Science - Career

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

Jennifer Riggio, Program Coordinator
jriggio1@rcsj.edu

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> AR 131 Introduction to Digital Photography	3
<input type="checkbox"/> CG 106 Design, Color and Type	3
<input type="checkbox"/> CG 115 Foundations of Computer Graphic Arts	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 109 Principles of Mathematics	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> CG 118 Introduction to Animation	3
<input type="checkbox"/> CG 121 Intro to Electronic Publishing and Typography	3
<input type="checkbox"/> CG 130 Video and Audio Editing	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Elective	3
	<hr/> 15

SECOND YEAR - Fall Semester

<input type="checkbox"/> CG 212 Screen Graphics	3
<input type="checkbox"/> CG 215 Electronic Illustration I	3
<input type="checkbox"/> CG 217 Electronic Image Processing	3
<input type="checkbox"/> EN 204 Business Communications or IC 211 Internship Career Connections	3
<input type="checkbox"/> Social Science Elective	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> AR 231 Intermediate Digital Photography	3
<input type="checkbox"/> CG 219 Web Design	3
<input type="checkbox"/> CG 218 Game and Interactive Authoring	3
<input type="checkbox"/> General Education Elective	3
<input type="checkbox"/> General Education Elective	3
	<hr/> 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

<input type="checkbox"/> CG 106 Design, Color and Type	3
<input type="checkbox"/> CG 118 Introduction to Animation	3
<input type="checkbox"/> CG 130 Video and Audio Editing	3
<input type="checkbox"/> CG 212 Screen Graphics	3
<input type="checkbox"/> CG 218 Game and Interactive Authoring	3
<input type="checkbox"/> 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.

[CGAG.COA; CIP Code 11.0803]

Certificate of Achievement

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

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



Computer Graphic Arts — Print Design Option, A.A.S.

[CGA.PRNT.DSGN.AAS; CIP Code 11.0803]

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

Program Contact

Jennifer Riggio, Program Coordinator
jriggio1@rcsj.edu

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> CG 106 Design, Color and Type	3
<input type="checkbox"/> CG 115 Foundations of Computer Graphic Arts	3
<input type="checkbox"/> AR 110 Fundamentals of Drawing	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 109 Principles of Mathematics	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> AR 131 Intro to Digital Photography	3
<input type="checkbox"/> CG 130 Video and Audio Editing	3
<input type="checkbox"/> CG 121 Introduction to Electronic Publishing and Typography	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education Elective	3
	<hr/> 15

SECOND YEAR - Fall Semester

<input type="checkbox"/> CG 220 Advanced Electronic Publishing	3
<input type="checkbox"/> CG 215 Electronic Illustration I	3
<input type="checkbox"/> CG 217 Electronic Image Processing	3
<input type="checkbox"/> EN 204 Business Communications or IC 211 Internship	3
<input type="checkbox"/> General Education Social Science Elective	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> CG 219 Web Design	3
<input type="checkbox"/> AR 107 Art History I	3
<input type="checkbox"/> General Education Elective	3
<input type="checkbox"/> General Education Elective	3
<input type="checkbox"/> AR 231 Intermediate Digital Photography	3
	<hr/> 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 - Print Design, COA

[CGAP.COA; CIP Code 11.0803]

Certificate of Achievement

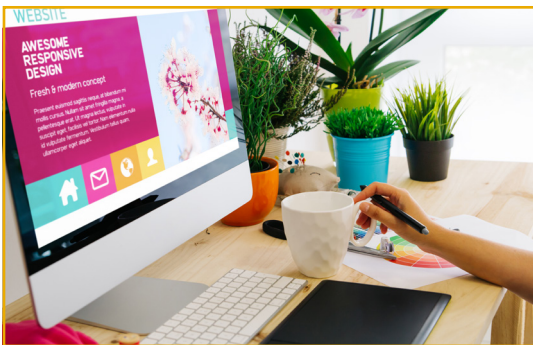
The goal of this certificate program is designed to provide entry-level knowledge of job skills necessary in the graphic arts industry. The program includes principles of design, elements of design, designing for print, illustrations and photo processing. A Certificate of Achievement also allows working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

<input type="checkbox"/> CG 106 Design, Color and Type	3
<input type="checkbox"/> CG 121 Introduction to Electronic Publishing and Typography	3
<input type="checkbox"/> CG 220 Advanced Electronic Publishing	3
<input type="checkbox"/> CG 215 Electronic Illustration I	3
<input type="checkbox"/> CG 217 Electronic Image Processing	3
<input type="checkbox"/> 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](https://www.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.

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

Computer Information Systems, A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 205 Statistics I	3
<input type="checkbox"/> CS 113 Introduction to Computers	4
<input type="checkbox"/> CS 156 Web Development - HTML/CSS	4
	14

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> CS 114 Fundamentals of Programming	4
<input type="checkbox"/> CS 119 Spreadsheets - EXCEL	4
<input type="checkbox"/> CS 157 Advanced Web Development	3
	14

SECOND YEAR - Spring Semester

<input type="checkbox"/> EC 201 Principles of Economics I	3
<input type="checkbox"/> CS 211 Relational Databases	4
<input type="checkbox"/> CS 256 Web Programming	3
<input type="checkbox"/> Humanities Elective	3
<input type="checkbox"/> Business Elective*	3-4
	16-17

Spring Semester

<input type="checkbox"/> EC 202 Principles of Economics II	3
<input type="checkbox"/> CS 207 Management Information Systems	3
<input type="checkbox"/> CS 264 Database Application Development	3
<input type="checkbox"/> Program Elective**	3
<input type="checkbox"/> Lab Science Elective	4
	16

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.

[DIG.MKT.AAS; CIP Code 52.1401]

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



The goal of this career program is to provide the basic knowledge and skills necessary for success in the fields of marketing in our digital world. This program prepares students with tools to develop and implement contemporary marketing initiatives within any type of organization. This program has additional globally recognized accreditation through the Accreditation Council for Business Schools and Programs (ACBSP).

Program Learning Outcomes

Students who have completed the program will be able to:

- Understand, apply and integrate digital marketing strategies
- Communicate effectively and professionally with a variety of audiences
- Utilize technology to capture, present and analyze information that supports general business, and especially marketing processes

Program 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.

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 113 Introduction to Computers	4
<input type="checkbox"/> CS 156 Web Development - HTML/CSS	4
<input type="checkbox"/> MA 205 Statistics I	3
	<hr/> 17

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> BU 207 Principles of Marketing	3
<input type="checkbox"/> CS 157 Advanced Web Development	3
<input type="checkbox"/> Program Elective*	3-4
<input type="checkbox"/> General Education Elective	3
	<hr/> 15-16

SECOND YEAR - Fall Semester

<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> AC 103 Accounting I	4
<input type="checkbox"/> BU 216 Social Media Marketing and Web Analytics	3
<input type="checkbox"/> BU 106 Principles of Management	3
<input type="checkbox"/> EN 204 Business Communication	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> Humanities or Social Science Elective	3
<input type="checkbox"/> CS 207 Management Information Systems	3
<input type="checkbox"/> BU 117 Principles of Advertising	3
<input type="checkbox"/> IC 211 Internship Career Connections	3
	<hr/> 12

TOTAL MINIMUM CREDITS: 60

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



Digital Marketing, COA

Core Courses

<input type="checkbox"/> BU 207 Principles of Marketing	3
<input type="checkbox"/> BU 216 Social Media Marketing and Web Analytics	3
<input type="checkbox"/> BU 117 Principles of Advertising	3
<input type="checkbox"/> CS 156 Web Development – HTML/CSS	4
<input type="checkbox"/> CS 157 Advanced Web Development	3

TOTAL CREDITS: 16

[DIMK.COA; CIP Code 52.1401]

Certificate of Achievement

This certificate program is designed to provide an understanding of the use of digital marketing in today's organizations. A Certificate of Achievement also allows working professionals the opportunity to obtain additional knowledge and skills while earning college credits.



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

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



Entrepreneurship, A.A.S.

[ENTR.AAS; CIP Code 52.0701]

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 written and oral business presentations.
 - Develop a business plan and identify areas of improvement.
 - Demonstrate an understanding of financial accounting concepts and risk assessment in the context of an entrepreneurial venture.
 - Demonstrate an understanding of the competencies required to successfully start-up and manage an entrepreneurial venture.

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> AC 103 Accounting I	4
<input type="checkbox"/> BU 109 Business Law I	3
<input type="checkbox"/> BU 122 Introduction to Entrepreneurship	3
<input type="checkbox"/> EN 101 English Composition I	3
	<hr/> 13

Spring Semester

<input type="checkbox"/> BU 106 Principles of Management	3
<input type="checkbox"/> BU 207 Principles of Marketing	3
<input type="checkbox"/> CS 113 Introduction to Computers	3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing	3
<input type="checkbox"/> SP 203 Effective Speech	3
	<hr/> 16

SECOND YEAR - Fall Semester

<input type="checkbox"/> BU 117 Principles of Advertising	3
<input type="checkbox"/> BU 212 Human Resource Management	3
<input type="checkbox"/> CS 119 Spreadsheets - EXCEL	3
<input type="checkbox"/> EC 202 Principles of Economics II	3
<input type="checkbox"/> General Education Mathematics Elective (MA 109 or higher, excluding MA 115)	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> AC 207 Accounting Information Systems	3
<input type="checkbox"/> BU 209 Small Business Management	3
<input type="checkbox"/> BU 216 Social Media Marketing and Web Analytics	3
<input type="checkbox"/> BU 249 Introduction to International Business or EN 204 Business Communications	3
<input type="checkbox"/> General Education Humanities Elective	3
	<hr/> 15

TOTAL CREDITS: 60



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](https://www.rcsj.edu/enroll)
and complete the interest
form.



[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

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

Human Resource Management, A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> AC 103 Accounting I	4
<input type="checkbox"/> BU 123 Personal and Professional Branding	1
<input type="checkbox"/> CS 113 Introduction to Computers	4
<input type="checkbox"/> EN 101 English Composition I	3
	12

Spring Semester

<input type="checkbox"/> AC 104 Accounting II	4
<input type="checkbox"/> BU 106 Principles of Management	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 149 Mathematics for Management	4
<input type="checkbox"/> PY 101 General Psychology	3
	17

SECOND YEAR - Fall Semester

<input type="checkbox"/> BU 210 Organizational Behavior	3
<input type="checkbox"/> BU 212 Human Resource Management	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Science Elective	3
	16

Spring Semester

<input type="checkbox"/> BU 121 Business Ethics	3
<input type="checkbox"/> BU 207 Principles of Marketing	3
<input type="checkbox"/> BU 239 Organizational Development	3
<input type="checkbox"/> IC 211 Internship Career Connections	3
<input type="checkbox"/> EC 201 Principles of Economics I	3
	15

TOTAL CREDITS: 60



Management, COA

[BUSNM.COA; CIP Code 52.1401]

Certificate of Achievement

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

Core Courses

<input type="checkbox"/> BU 106 Principles of Management	3
<input type="checkbox"/> BU 212 Human Resource Management	3
<input type="checkbox"/> BU 210 Organizational Behavior	3
<input type="checkbox"/> BU 239 Organizational Development	3
<input type="checkbox"/> BU 121 Business Ethics	3
<input type="checkbox"/> BU 123 Personal and Professional Branding	1

TOTAL CREDITS: 16

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

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



Network Management, A.A.S.

[NET.MGT.AAS; CIP Code 11.0901]

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.

FIRST YEAR - Fall Semester

<input type="checkbox"/> CS 170 PC Services & Support / A+ Certification	4
<input type="checkbox"/> CS 175 Core Client Operating Systems	3
<input type="checkbox"/> CS 217 Introduction to Networks	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> FS 101 Freshman Seminar	1
	<hr/> 15

Spring Semester

<input type="checkbox"/> CS 229 Linux Installation and Configuration	3
<input type="checkbox"/> CS 233 Routing and Switching Essentials	4
<input type="checkbox"/> CS 275 Core Server Operating Systems	4
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech	3
<input type="checkbox"/> General Education Diversity Elective	3
	<hr/> 17

SECOND YEAR - Spring Semester

<input type="checkbox"/> CS 226 Network Infrastructure Implementation	4
<input type="checkbox"/> CS 228 Active Directory Design and Implementation	4
<input type="checkbox"/> CS 234 Scaling Networks	4
<input type="checkbox"/> General Education Mathematics Elective (excluding MA 115)	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> CS 236 Cloud+	4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics Elective (excluding MA 115)	3-4
	<hr/> 13-14

TOTAL MINIMUM CREDITS: 60

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



Technology Help Desk Support, COA

Core Courses

<input type="checkbox"/> CS 113 Introduction to Computers	4
<input type="checkbox"/> CS 119 Spreadsheets - EXCEL	4
<input type="checkbox"/> CS 211 Relational Databases	4
<input type="checkbox"/> CS 224 IT Help Desk/Technical Support	3
<input type="checkbox"/> CS ___ Elective or IC 211 Internship & Career Connections	3

TOTAL CREDITS: 18

[THDS.COA; CIP Code 11.0201]

Certificate of Achievement

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

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](https://www.rcsj.edu/enroll)
and complete the interest
form.



Website Development, COA

[CISYW.COA; CIP 11.0801]

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.

Core Courses

<input type="checkbox"/> CS 156 Web Development - HTML/CSS	4
<input type="checkbox"/> CS 157 Advanced Web Development	3
<input type="checkbox"/> CG 212 Screen Graphics	3
<input type="checkbox"/> CS 114 Fundamentals of Programming	4
<input type="checkbox"/> CS 256 Web Programming	3

TOTAL CREDITS: 17

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](https://www.rcsj.edu/enroll)
and complete the interest
form.



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Shaniel Brown, Global Wind Organization Basic Technical Training



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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.



[DENT-AC; CIP Code 51.0601]

Academic Certificate Program

This academic certificate program prepares students for an expanded functions licensure in one of the fastest growing health care fields with a curriculum introducing them to the profession of dentistry. They will learn all areas of clinical dental assisting and receive training in the professional skills required to function as a dental assistant in a dental practice. Through lecture, laboratory sessions, and clinical rotations, they learn the roles and responsibilities of the dental assistant. Skill development includes policies and guidelines, oral and dental anatomy, infection control, dental radiology, instrument identification and use, and expanded functions. Students must obtain a minimum grade of 'C' in all Dental courses.

This program prepares students to sit for the three components of the Dental Assisting National Board Exams (DANB): Radiation and Safety Examination (RHS); Infection Control (ICE); and General Chairside (GC) which are the three components of the nationally recognized Certified Dental Assistant (CDA) certification. The DANB exams are administered at Pearson Vue Centers and are not included as part of the cost of this program. In addition to the CDA certification, students will be eligible to apply for their New Jersey Dental Radiology Technologist licensure, and expanded-functions licensure in the State of New Jersey as a Registered Dental Assistant (RDA).

Program Contact

Jaci Klepadlo, BSDH, CDA
Executive Director of Dental Programs
jklepadl@rcsj.edu

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

Dental Assisting, AC

First Semester - Summer

<input type="checkbox"/> EN 101 *English Composition I	3
<input type="checkbox"/> SP 101 *Effective Speech or PY 101 *General Psychology	3
<input type="checkbox"/> DENT 101 Dental Science I	1
	7

Second Semester - Fall

<input type="checkbox"/> DENT 102 Dental Science II	2
<input type="checkbox"/> DENT 105 Chairside Assisting & Expanded Functions I	4
<input type="checkbox"/> DENT 107 Dental Infection Control & Biomedical Science	3
<input type="checkbox"/> DENT 110 Dental Radiology	4
	13

Third Semester - Spring

<input type="checkbox"/> DENT 205 Chairside Assisting & Expanded Functions II	4
<input type="checkbox"/> DENT 120 Dental Patient & Practice Management	2
<input type="checkbox"/> DENT 125 Dental Materials	2
<input type="checkbox"/> DENT 210 Dental Externship	7
	15

TOTAL MINIMUM CREDITS: 35

Program Notes

* General education courses are transferrable



[HIT.AAS; CIP Code 51.0706]

Associate in Applied Science - Career

This degree is designed for the student who is seeking a professional career based in the healthcare arena. The field of Health Information Technology deals with the gathering, storage, and abstraction of health data. This data can be transformed into meaningful and useful information that can be utilized by various professionals for a variety of purposes. Students educated in the field of Health Information Technology can perform various job duties and are employed in a variety of settings. Acute care hospitals, long-term care facilities, rehabilitation facilities, insurance agencies, and pharmaceutical companies are just a sampling of employers. This field has a national professional organization, the American Health Information Management Association (AHIMA). Students seeking current information on the growth of the field, salary information, and types of employers should access the national organization via www.ahima.org.

Upon successful graduation from the program at Camden County College, graduates are eligible to take the Registered Health Information Technician (RHIT) examination offered by the professional association, the American Health Information Management Association (AHIMA). Once achieved, certification is an important hallmark for professionals in the field of Health Information Management.

Program Contact

Michael Goonan, M.S.Ed., Assistant Dean
mgoonan@rcsj.edu

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

Health Information Technology, A.A.S.

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

FIRST YEAR - RCSJ

Fall Semester

<input type="checkbox"/> BI 106 Anatomy and Physiology I	4
<input type="checkbox"/> CS 101 Introduction to Microcomputers	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> HS 103 Medical Terminology	2
<input type="checkbox"/> MA 205 Statistics I	3
	<hr/>
	15

Spring Semester

<input type="checkbox"/> BI 107 Anatomy and Physiology II	4
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> HS 140 Legal and Ethical Issues in Healthcare	3
<input type="checkbox"/> General Education Diversity Elective or General Education Social Science	3
<input type="checkbox"/> HS 104 Introduction to Health Information	3
	<hr/>
	16

SECOND YEAR - Camden County College online

Summer Semester

<input type="checkbox"/> HIT 132 Pharmacology	3
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Fall Semester

<input type="checkbox"/> HIT 110 Health Informatics	4
<input type="checkbox"/> HIT 115 Healthcare Reimbursement	3
<input type="checkbox"/> HIT 130 Introduction to Ambulatory Coding	3
<input type="checkbox"/> HIT 134 Basic Pathophysiology	3
<input type="checkbox"/> HIT 140 Diagnostic and Procedural Coding I	3
<input type="checkbox"/> HIT 150 Technical Practice Experience	1
	<hr/>
	17

Spring Semester

<input type="checkbox"/> HIT 202 Statistical Methods for Health Information	3
<input type="checkbox"/> HIT 215 Advanced Ambulatory Coding	3
<input type="checkbox"/> HIT 235 Organizational Resources, QI and PI	4
<input type="checkbox"/> HIT 220 Professional Practice Experience	2
<input type="checkbox"/> HIT 240 Diagnostic and Procedural Coding II	4
	<hr/>
	16

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)



[HIT.MDC.AC; CIP Code 51.0707]

Certificate Program

This certificate program will prepare the student to work in many areas requiring coding expertise. The coding courses follow the prerequisites Medical Terminology and Human Biology, which expose the student to terms and anatomy necessary for learning medical coding. This program can be completed as a full-time or part-time student. The program at Camden County College is approved by the American Health Information Management Association (AHIMA).

Medical coders provide an essential part of managing health information that allows hospitals and physician offices to receive payment for services. Each diagnosis or treatment is assigned a code for which payment may be received. Code assignments are based on coding classification guidelines, federal regulations and sometimes state regulations. In the United States healthcare can be complex and has many components including the clinical side, administrative elements, and governmental oversight. Adequately trained personnel are essential for proper reporting of information to ensure correct reimbursement. Area medical facilities currently seek trained staff with the coding skills necessary to efficaciously meet the financial needs of these institutions. Theory and lab experience will provide the learner with job-readiness skills.

Program Contact

Michael Goonan, M.S.Ed., Assistant Dean
mgoonan@rcsj.edu

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

Medical Coding, CERT

A joint certificate program with Camden County College

FIRST YEAR - Fall Semester @ RCSJ

<input type="checkbox"/> BI 108 Human Biology	4
<input type="checkbox"/> CS 101 Introduction to Microcomputers	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> HS 103 Medical Terminology	2
<input type="checkbox"/> HS 104 Introduction to Health Information	3
	15

Spring Semester @ Camden County College online

<input type="checkbox"/> HIT 115 Healthcare Reimbursement	3
<input type="checkbox"/> HIT 130 Introduction to Ambulatory Coding	3
<input type="checkbox"/> HIT 134 Basic Pathophysiology	3
<input type="checkbox"/> HIT 140 Diagnostic and Procedural Coding I	3
	12

SECOND YEAR - Fall Semester @ Camden County College online

<input type="checkbox"/> HIT 132 Basic Pharmacology	3
<input type="checkbox"/> HIT 135 Medical Coding Internship	2
<input type="checkbox"/> HIT 215 Advanced Ambulatory Coding	3
<input type="checkbox"/> HIT 240 Diagnostic and Procedural Coding II	4
	12

TOTAL CREDITS: 39

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.



Risk Management and Insurance, A.A.S.

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.

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 Canons, 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.

Program Contact

Michael Goonan, M.S.Ed., Assistant Dean
mgoonan@rcsj.edu

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> IN 104 Ethics and Professional Conduct	3
<input type="checkbox"/> IN 105 Property and Liability Insurance Principles	3
<input type="checkbox"/> IN 106 Claim Handling Principles and Practices	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> BU 109 Business Law	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> IN 107 Property Claims Practices	3
<input type="checkbox"/> IN 108 Liability Claim Practices	3
<input type="checkbox"/> IN 109 Property and Liability Coverages	3
<input type="checkbox"/> MA 109 Principles of Mathematics or MA 110 College Algebra	3
<input type="checkbox"/> General Education Elective	3
	<hr/> 15

SECOND YEAR - Fall Semester

<input type="checkbox"/> EN 102 English Composition II* or EN 103 Technical Writing	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> MA 205 Statistics I	3
<input type="checkbox"/> IN 209 Risk in an Evolving World	3
<input type="checkbox"/> PY 101 General Psychology	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> IN 210 Holistically Assessing Risk	3
<input type="checkbox"/> IN 212 Risk Treatment	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers	3
<input type="checkbox"/> BU 247 Leadership	3
<input type="checkbox"/> General Education Diversity Elective	3
	<hr/> 15

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.



[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

Program Contact

Michael Goonan, M.S.Ed., Assistant Dean
mgoonan@rcsj.edu

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

Technical Studies, A.A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Mathematics Elective or General Education Science Elective or General Education Technology Elective	3-4
<input type="checkbox"/> General Education Elective	3-4
<input type="checkbox"/> Technical Electives*	3-4
	12-15

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education Social Science Elective or General Education Humanities Elective	3
<input type="checkbox"/> Technical Elective*	3-4
<input type="checkbox"/> Technical Electives*	3-4
	12-14

SECOND YEAR - Fall Semester

<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Elective	3-4
<input type="checkbox"/> Technical Elective*	3-4
	9-12

Spring Semester

<input type="checkbox"/> Technical Elective*	3-4
	3-4

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

TOTAL MINIMUM CREDITS: 60

* **Technical electives** may be selected from any of the following areas:

- Business Studies—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.



DIVISION OF Communication and Creative & Performing Arts

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

RCSJ.edu/CCPA

Alysa Serrano, Communication



4 academic delivery methods:



In-Person



Live Online



Hybrid



Traditional Online

Find Your Program

From Communication to Art, Ceramics 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.



[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](https://www.rcsj.edu/Enroll) and complete the interest form.

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

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA General Education Mathematics Elective	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> HI 101 Western Civilization I	3
<input type="checkbox"/> CO 217 Applied Media Aesthetics	3
<input type="checkbox"/> FS101 Freshman Seminar	1
	16

First Year, Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education Math Elective	3
<input type="checkbox"/> AR 101 Art Appreciation or MU 101: Music Appreciation	3
<input type="checkbox"/> HI 102 Western Civilization II	3
<input type="checkbox"/> CO 216 Foundations of Media Production	3
	15

Second Year, Fall Semester

<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Science Elective (with lab)	4
<input type="checkbox"/> SO 201 Introductory Sociology	3
<input type="checkbox"/> General Diversity Elective	3
<input type="checkbox"/> CO 212 TV History and Appreciation	3
	16

Second Year, Spring Semester

<input type="checkbox"/> PH 101 Introduction to Philosophy	3
<input type="checkbox"/> General Education Science Elective (with lab)	4
<input type="checkbox"/> General Education Humanities Elective (Broad-based HUP)	3
<input type="checkbox"/> CO 210 Film History and Appreciation	3
	13

TOTAL CREDITS: 60



After completing the LA/Radio, Television and Film Option, A.A., students may choose to continue with the bachelor's degree pathway at RCSJ.

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

Radio, Television and Film 3+1

THIRD YEAR — Fall Semester

<input type="checkbox"/> CO 310 TV Production I	3
<input type="checkbox"/> CO 319 Screenwriting I	3
<input type="checkbox"/> Free Elective (Literature Required)	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
	<hr/>
	15

Spring Semester

<input type="checkbox"/> CO 312 Film Production I	3
<input type="checkbox"/> CO 317 The Movie Industry	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
	<hr/>
	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.



Industry & Employment Opportunities

Bachelor

Producer, Director, Journalist, Editor

Questions?

About 3+1:

Stephen Sweeney, 3+1 Assistant Director,
ssweene1@rcsj.edu

About the Program.

Nathaniel Clark, nclark4@rcsj.edu
856-200-4604

[RCSJ.edu/3plus1](https://rcsj.edu/3plus1)



Ceramics Technology, CERT

[CERAM.AC; CIP Code 50.0711]

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](https://www.rcsj.edu/enroll)
and complete the interest
form.

FIRST YEAR - Fall Semester

<input type="checkbox"/> AR 110 Fundamentals of Drawing	3
<input type="checkbox"/> CR 101 Ceramics I	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Humanities Elective	3
	<hr/> 12

Spring Semester

<input type="checkbox"/> AR 205 3-Dimensional Design	3
<input type="checkbox"/> CR 102 Ceramics II	3
<input type="checkbox"/> CR 105 Sculptural Ceramics	3
<input type="checkbox"/> CR 106 Ceramic Technologies	3
	<hr/> 12

SECOND YEAR - Fall Semester

<input type="checkbox"/> CR 103 Ceramics III	3
<input type="checkbox"/> CR 107 Clay Co-Op Experience - Gallery or CR 108 Clay Co-Op Experience - Studio	3
<input type="checkbox"/> CR 109 Craft Business Practice	3
	<hr/> 9

TOTAL CREDITS: 33



[ENT.TECH.AC; CIP Code 50.0599]

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](https://www.rcsj.edu/enroll)
and complete the interest
form.

Entertainment Technology, CERT

FIRST YEAR - Fall Semester

<input type="checkbox"/> CO 101 Mass Media Influence	3
<input type="checkbox"/> CO 114 Digital Media I	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> TH 150 Stagecraft	3
<input type="checkbox"/> General Education Elective	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> CO 118 Introduction to Audio Production	3
<input type="checkbox"/> CO 214 Digital Media II	3
<input type="checkbox"/> CO 240 Broadcast Media Internship	3
<input type="checkbox"/> TH 170 Fundamentals of Stage Lighting	3
<input type="checkbox"/> TH 128 Acting for Television	3
	<hr/> 15

TOTAL CREDITS: 30



Fine Arts, A.F.A.

[FA.AFA; CIP Code 50.0702]

Associate in Fine Arts - Transfer

For students who want to concentrate on fine arts courses and take fewer liberal arts electives than students in the Fine and Performing Arts Associate in Arts degree programs. RCSJ's Associate in Fine Arts program prepares you to transfer as a junior in a fine arts bachelor's degree program at an art college.

You can specialize in ceramics, painting, drawing or sculpture. You'll get a solid foundation in drawing and design along with the time to specialize in your chosen art medium. You'll learn critical and creative thinking skills, and the techniques of artistic practice. You'll compile a strong art portfolio, which is necessary for applying to four-year colleges and jobs.

Program Contact

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

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> AR 110 Fundamentals of Drawing	3
<input type="checkbox"/> AR 115 Painting I	3
<input type="checkbox"/> CR 101 Ceramics I	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Math or Science Elective	3-4
	<hr/> 15-16

Spring Semester

<input type="checkbox"/> AR 107 Art History I	3
<input type="checkbox"/> AR 113 Fundamentals of Drawing II	3
<input type="checkbox"/> AR 120 Printmaking I	3
<input type="checkbox"/> AR 200 Two Dimensional Design	3
<input type="checkbox"/> EN 102 English Composition II	3
	<hr/> 15

SECOND YEAR - Fall Semester

<input type="checkbox"/> AR 108 Art History II	3
<input type="checkbox"/> AR 140 Sculpture I	3
<input type="checkbox"/> AR 213 Life Drawing	3
<input type="checkbox"/> AR 131 Digital Photography	3
<input type="checkbox"/> General Education Diversity Elective	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> AR 202 Color Theory and Practice	3
<input type="checkbox"/> AR 205 3-Dimensional Design	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Program Elective*	3
<input type="checkbox"/> Program Elective*	3
	<hr/> 15

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.



[CERAM.AA; CIP Code 24.0101]

Associate in Arts - Transfer

This program prepares the student for transfer into a four-year institution with a ceramic specialization within the art department or art school. The student will have a strong background in studio ceramics and technology.

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](https://www.rcsj.edu/enroll) and complete the interest form.

Liberal Arts/Ceramics, A.A.

FIRST YEAR - Fall Semester

<input type="checkbox"/> AR 110 Fundamentals of Drawing	3
<input type="checkbox"/> CR 101 Ceramics I	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Information Technology	2-3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Mathematics Elective	<u>3-4</u>
	14-16

Spring Semester

<input type="checkbox"/> AR 107 Art History I	3
<input type="checkbox"/> CR 102 Ceramics II	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	<u>3</u>
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> AR 108 Art History II	3
<input type="checkbox"/> CR 105 Sculptural Ceramics or CR 106 Ceramic Technologies	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> General Education Social Science Elective	<u>3</u>
	16

Spring Semester

<input type="checkbox"/> AR 205 3-Dimensional Design	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Math or Science Elective	3-4
<input type="checkbox"/> General Education Social Science Elective	<u>3</u>
	15-16

TOTAL MINIMUM CREDITS: 60



Liberal Arts/ Design/Fine Arts, A.A.

[DSGN.FA.AA; CIP Code 24.0101]

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

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> AR 110 Fundamentals of Drawing	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Information Technology	2-3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Math Elective	3-4
	<hr/> 14-16

Spring Semester

<input type="checkbox"/> AR 113 Fundamentals of Drawing I	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> AR 107 Art History I	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Science Elective	4
	<hr/> 16

SECOND YEAR - Fall Semester

<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Math or Science Elective	3-4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> General Education Diversity Elective	3
	<hr/> 15-16

Spring Semester

<input type="checkbox"/> AR 200 Two-Dimensional Design	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> Program Elective*	3
	<hr/> 15

TOTAL MINIMUM CREDITS: 60

*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



[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

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

Liberal Arts: Strategic and Digital Communications Option, A.A.

FIRST YEAR - Fall Semester

<input type="checkbox"/> CO 102 Introduction to Communication	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Information Technology	2-3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> CG 106 Design, Type & Color or CG 115 Foundations of Computer Graphic Arts	3
<input type="checkbox"/> General Education Mathematics Elective	3
	14-15

Spring Semester

<input type="checkbox"/> CO 101 Mass Media Influence	3
<input type="checkbox"/> CO 104 Writing for Electronic Media	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Social Science Elective	3-4
	15-16

SECOND YEAR - Fall Semester

<input type="checkbox"/> EN 103 Technical Writing	3
<input type="checkbox"/> General Education Humanities Elective (Foreign Lang. Recommended)	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Business Elective*	3
	16

Spring Semester

<input type="checkbox"/> EN 204 Business Communication	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Social Science Elective	3
	15

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/EducationHumanities

Marisol Perez Cruz, Early Childhood Education



4 academic delivery methods:



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.



[ECE.AAS; CIP Code 13.0101]

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.

Program Contact

Dr. Kathleen Felice
kfelice@rcsj.edu

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

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> ED 106 Principles of Early Childhood Education	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PY 115 Child Development and Learning	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
<input type="checkbox"/> CS 110 Information Technology	2
	14

Spring Semester

<input type="checkbox"/> ED 105 Introduction to Special Education	3
<input type="checkbox"/> ED 203 Language Dev. and Emergent Literacy	3
<input type="checkbox"/> ED 209 Child Health, Safety and Nutrition	3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech	3
<input type="checkbox"/> PY 101 General Psychology	3
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> ED 201 Math, Science and Technology in Early Childhood	3
<input type="checkbox"/> ED 205 Preschool Classroom Management	3
<input type="checkbox"/> MA 109 Principles of Mathematics or MA 115 Mathematical Structures and Algorithms	3
<input type="checkbox"/> PY 102 Child Psychology	3
<input type="checkbox"/> Early Childhood Education Elective*	3
	15

Spring Semester

<input type="checkbox"/> ED 212 Books and Storytelling in Early Childhood Education	3
<input type="checkbox"/> ED 290 The Early Childhood Professional	3
<input type="checkbox"/> PI 110 Principles of Science	4
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> 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



Early Childhood Education, CERT

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

Program Contact

Dr. Kathleen Felice
kfelice@rcsj.edu

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> ED 106 Principles of Early Childhood Education	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PY 115 Child Development and Learning	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
	15

Spring Semester

<input type="checkbox"/> ED 203 Language Dev. and Emergent Literacy	3
<input type="checkbox"/> ED 204 Creative Learning Experiences in Early Childhood Ed.	3
<input type="checkbox"/> ED 209 Child Health, Safety and Nutrition	3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing	3
<input type="checkbox"/> PY 101 General Psychology	3
	15

TOTAL CREDITS: 30

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



Infant/Toddler, COA

[ECE.INF.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.

Program Contact

Dr. Kathleen Felice
kfelice@rcsj.edu

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

<input type="checkbox"/> ED 106: Principles of Early Childhood Education	3
<input type="checkbox"/> PY 115: Child Development and Learning	3
<input type="checkbox"/> ED 103: Infant/Toddler Curriculum and Development	3
<input type="checkbox"/> ED 110: Infant/Toddler Mental Health	3
<input type="checkbox"/> ED 219: Infant Toddler Field Experience	3
	<hr/> 15

TOTAL CREDITS: 15



Liberal Arts, A.A.

[LIB.ARTS.GEN.AA; CIP Code 24.0101]

Associate in Arts - Transfer

This program is designed for students who wish to transfer to a four-year college after completing the first two years of undergraduate coursework. The Liberal Arts program is not designed for specific majors, but allows graduating students to advance to many different areas of study. As the Liberal Arts program allows considerable course options, students should research the degree requirements of the four-year colleges of interest.

Program Learning Outcomes

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

- Demonstrate effective communication skills by expressing ideas and sharing knowledge in a clear, focused and organized manner.
- Demonstrate mathematical and statistical concepts and operations to interpret data and to solve problems.
- Demonstrate scientific method of inquiry, through the acquisition of scientific knowledge.
- Apply computer systems or other appropriate forms of technology to achieve educational and personal goals.
- Apply social science theories and concepts to analyze human behavior, social and political systems, and to act as responsible citizens.
- Analyze works in the fields of art, music, theater, literature, philosophy and/or religious studies and gain competence in the use of a foreign language.
- Evaluate historical events and movements in World, Western, non-Western or American societies and assess their subsequent significance.
- Analyze the importance of global perspectives and culturally diverse peoples.
- Evaluate ethical issues and situations.
- Locate, retrieve and critically evaluate information and sources.

Program Contact

Dr. Lynn Lichtenberger
llichten@rcsj.edu

FIRST YEAR - Fall Semester

<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Information Technology	2-3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Mathematics Elective	3-4
<input type="checkbox"/> General Education Humanities Elective	3
	14-16

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Program Elective*	3
	16

SECOND YEAR - Fall Semester

<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics or Science Elective	3-4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Program Elective*	3
<input type="checkbox"/> Program Elective*	3
	15-16

Spring Semester

<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> Program Elective*	3
<input type="checkbox"/> 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.



[ART.EDU.AA; CIP Code 24.0101

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.

Program Contact

Dr. Kathleen Felice
kfelice@rcsj.edu

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

Liberal Arts/Art Education, A.A.

FIRST YEAR - Fall Semester

<input type="checkbox"/> AR 110 Fundamentals of Drawing	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Information Technology	2-3
<input type="checkbox"/> ED 101 Historical Foundations of Education	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 109 Principles of Math or MA 115 Mathematical Structures and Algorithms	3
	14-15

Spring Semester

<input type="checkbox"/> AR 107 Art History I	3
<input type="checkbox"/> CR 101 Ceramics I	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> General Education History Elective	3
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> PY 102 Child Psychology	3
<input type="checkbox"/> PY 214 Human Exceptionality or Program Elective*	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Science Elective	4
	16

Spring Semester

<input type="checkbox"/> PY 213 Educational Psychology	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Math or Science Elective	3-4
	15-16

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



[EDU.EL.SEC.LA.AA; CIP Code 24.0101]

Associate in Arts - Transfer

This program is designed for students who are planning to pursue a career in teaching at either the elementary or secondary level. Students gain the foundation courses and liberal arts background necessary to prepare for further study at a four-year college or university in the field of education.

Program Contact

Dr. Kathleen Felice
kfelice@rcsj.edu

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
	13

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
	16

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
	16

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
	15

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

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



[HIST.LA.AA; CIP Code 24.0101]

Associate in Arts - Transfer

This program is designed for students who wish to transfer to a four-year college after completing the first two years of undergraduate coursework at Cumberland as a History major.

Program Learning Outcomes

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

- Evaluate and summarize historical content.
- Demonstrate a factual knowledge of significant past events.
- Communicate effectively in writing and orally.
- Demonstrate an understanding of historical research involving primary and secondary texts.
- Demonstrate an ability to think critically about the causes and effects of historical events.

Program Contact

Dr. Lynn Lichtenberger
llichten@rcsj.edu

Liberal Arts/History, A.A.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PS 201 American Federal Government	3
<input type="checkbox"/> HI 201 United States History I	3
<input type="checkbox"/> General Education Mathematics Elective	3-4
<input type="checkbox"/> General Education Humanities Elective	3
	15-16

Spring Semester

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

SECOND YEAR - Fall Semester

<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> History Program Elective	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Program Option Elective*	3
	16

Spring Semester

<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> History Program Elective	3
	13

TOTAL MINIMUM CREDITS: 60

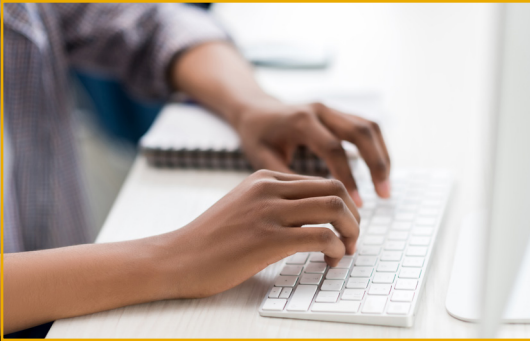
***Program Option Electives**

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](https://www.rcsj.edu/enroll)
and complete the interest
form.



Liberal Arts/Literature, A.A.

[LIT.LA.AA; CIP Code 24.0101]

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.

Program Contact

Dr. Lynn Lichtenberger
llichten@rcsj.edu

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Information Technology	2-3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Mathematics Elective	3-4
<input type="checkbox"/> General Education Humanities Elective (Foreign Language recommended for 6 Credits)	3
	14-16

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Humanities Elective (Foreign Language recommended for 6 Credits)	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> General Education Social Science Elective	3
	16

SECOND YEAR - Fall Semester

<input type="checkbox"/> General Education Math/Science Elective	3-4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> Literature Elective*	3
<input type="checkbox"/> Literature Elective*	3
<input type="checkbox"/> Program Elective**	3
	15-16

Spring Semester

<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Literature Elective	3
<input type="checkbox"/> Program Elective**	3
	15

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

Any Literature Course	3
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



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.

Program Contact

Dr. Lynn Lichtenberger
llichten@rcsj.edu

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Information Technology	2-3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> LS 101 Elementary Spanish I	3
<input type="checkbox"/> General Education Mathematics Elective	3-4
<input type="checkbox"/> General Education History Elective	3
	14/16

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> LS 102 Elementary Spanish II	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> General Education Science Elective	4
	16

SECOND YEAR - Fall Semester

<input type="checkbox"/> EN 225 Introduction to Latino Literature	3
<input type="checkbox"/> LS 104 Conversational Spanish I	3
<input type="checkbox"/> LS 201 Intermediate Spanish I	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Social Science Elective	3
	15

Spring Semester

<input type="checkbox"/> HI 113 Latin American History	3
<input type="checkbox"/> LS 202 Intermediate Spanish II	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics or Science Elective	3-4
	15-16

TOTAL MINIMUM CREDITS: 60



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

Joseph Fabrizio, Radiography



4 academic delivery methods:



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.



[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.

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

Biological Science/ Health Science, A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> BI 101 General Biology I	4
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> HS 101 Elements of Healthcare Careers	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> HS 103 Medical Terminology	2
	15

Spring Semester

<input type="checkbox"/> BI 106 Anatomy and Physiology I	4
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> PY 207 Human Growth and Development	3
<input type="checkbox"/> HS 115 Basic Nutrition	3
<input type="checkbox"/> HS 140 Legal & Ethical Issues in Healthcare	3
	16

SECOND YEAR - Spring Semester

<input type="checkbox"/> BI 107 Anatomy and Physiology II	4
<input type="checkbox"/> CH 101 General Chemistry I	4
<input type="checkbox"/> Program Electives	3-4
<input type="checkbox"/> Program Electives	3-4
	14-16

Spring Semester

<input type="checkbox"/> Humanities General Education Elective	3
<input type="checkbox"/> SO 201 Introduction to Sociology	3
<input type="checkbox"/> Mathematics General Education Elective	3-4
<input type="checkbox"/> Program Electives	3-4
<input type="checkbox"/> 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 HS 145 Exercise Science	4 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.



Health Science, CERT

[HSCI.AC; CIP Code 51.0000]

Certificate Program

The Academic Certificate program in Health Science is designed for individuals who completed, or are on track to complete, a post secondary accreditation or state licenses health education program.

This program provides a career and degree pathway for those individuals who are certified or are in the process of earning a certification in a health profession.

Individuals who are, or are in training, as pharmacy technicians, dental assistants, emergency medical technicians, LPNs, phlebotomists, medical assistants, radiographers, etc., and military trained health practitioners may consider this program. This program allows for the granting of four college credits for a current Home Health Aide (HHA), Certified Nurse's Aide (CNA) or other Healthcare credential with a positive employer review.

Students who have completed this Health Science Academic Certificate will receive an additional point toward the selective nursing admission criteria.

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 technology and terminology appropriate to the discipline of study.
- Locate, critically evaluate and make informed conclusions about scientific literature.

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> BI 101 General Biology I or CH 101 General Chemistry I	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> HS 115 Basic Nutrition	3
<input type="checkbox"/> SO 201 Into to Sociology	3
	16

Spring Semester

<input type="checkbox"/> BI 106 Anatomy and Physiology I	4
<input type="checkbox"/> HS 101 Elements of Healthcare Careers	3
<input type="checkbox"/> PY 207 Human Growth and Development	3
<input type="checkbox"/> 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.



Nursing (NURS), A.A.S.

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

[AAS-NURS; CIP Code 51.3801]

Nursing (NURS) Generic Program Associate in Applied Science (A.A.S.) – Transfer

This program combines general education with nursing courses to prepare students for entry-level nursing practice. Upon successful completion of the program, graduates are eligible to apply to take the National Council Licensing Examination (NCLEX-RN) and to apply to a Board of Nursing for licensure as a Registered Nurse. The Nursing program is accredited by the New Jersey Board of Nursing and the Accreditation Commission for Education in Nursing.

Program Information

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

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

Highlights

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

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> BI 106 Anatomy and Physiology I	4
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> NURS 110 Nursing I	6
<input type="checkbox"/> NURS 111 Nursing I Lab	1
	17

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> BI 107 Anatomy and Physiology II	4
<input type="checkbox"/> NURS 120 Nursing II	9
<input type="checkbox"/> NURS 121 Nursing II Lab	1
	17

SECOND YEAR - Fall Semester

<input type="checkbox"/> BI 203 Microbiology	4
<input type="checkbox"/> NURS 230 Nursing III	8
<input type="checkbox"/> NURS 231 Nursing Lab III	1
	13

Spring Semester

<input type="checkbox"/> NURS 240 Nursing IV	7
<input type="checkbox"/> NURS 245 Transition to Practice	4
<input type="checkbox"/> NURS 210 Nursing Global Issues and Trends	2
	13

TOTAL CREDITS: 60

Special Admission Requirements

- Nursing is a selective admission program. Students must be accepted to the program prior to registering for any NURS courses.
- Please contact the Enrollment Services Office for an admission packet.
- Clinical agencies require criminal history background checks (CHBC) for all individuals engaged in patient care. All students must undergo a CHBC upon acceptance into the Nursing Program. CHBC results are sent to the clinical agencies, who have the sole discretion to decide if the student may engage in patient care at the agency. If a student is denied the opportunity to participate in the clinical agency as a result of the findings of the CHBC, the student will be dismissed from the Nursing Program.
- Students must satisfactorily complete all 100-level nursing courses to progress to 200-level courses. Students who do not meet prerequisite and co-requisite course requirements, and/or grade requirements will not be able to progress in the Nursing program.
- Students must complete the Nursing program in three years from the start of the first Nursing course.
- Students who do not complete the program within three years must wait three years before reapplying to the Nursing program.
- A minimum grade of “C+” is required in all courses in the Nursing Program of Study including General Education and Science courses.

Employment Opportunities

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

Program Outcomes

Graduates of the Nursing program will:

- Apply principles of evidence-based practice to patient care
- Value inter professional and community partners collaboration
- Demonstrate ethical and professional nursing practice



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

THIRD YEAR — Fall Semester

<input type="checkbox"/> Fine Arts Elective	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> NURS 303 Comprehensive Health Assessment	3
<input type="checkbox"/> Broad-based Literature	3
<input type="checkbox"/> General Elective Option	3
	15

Spring Semester

<input type="checkbox"/> NURS 305 Nursing Informatics	3
<input type="checkbox"/> NURS 308 Topics in Healthcare Ethics	3
<input type="checkbox"/> Humanities/History/Language	3
<input type="checkbox"/> MA 205 Statistics I	3
<input type="checkbox"/> 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's

Registered Nurse, Health Information Specialist, Community Health Worker

Master's

Midwife, Healthcare Social Worker, Nurse Practitioner

Questions?

About 3+1:
Stephen Sweeney, 3+1 Assistant Director,
ssweene1@rcsj.edu

[RCSJ.edu/3plus1](https://rcsj.edu/3plus1)



[NUR.AAS; CIP Code 51.3801]

Associate in Applied Science - Career

The program combines general education with nursing courses to prepare currently Licensed Practical Nurses (LPN) for entry-level Registered Nursing (RN) practice. Upon successful completion of the Nursing program, students are eligible to apply for state licensure and sit for the National Council Licensure Examination for Registered Nurses (NCLEX-RN). The Nursing program is approved by The New Jersey Board of Nursing and accredited by (ACEN).

Program Learning Outcomes

Graduates of the Nursing program will:

- Apply principles of evidence-based practice to patient care
- Value interprofessional and community partners collaboration
- Demonstrate ethical and professional nursing practice

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

Nursing LPN-RN, A.A.S.

This program has selective admissions. To learn more about the program or attend an information session, please visit [RCSJ.edu/gc/SelectiveAdmissions](https://www.rcsj.edu/gc/SelectiveAdmissions).

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

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> BI 106 Anatomy and Physiology I	4
<input type="checkbox"/> PY 101 General Psychology	3
	10

Year 1, Winter Semester

<input type="checkbox"/> NURS 115 LPN to RN Track	3
<input type="checkbox"/> Program Learning Outcomes Upon Completion of NU 115, students will be awarded 4 credits for LPN license	4
	7

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> BI 107 Anatomy and Physiology II	4
<input type="checkbox"/> NURS 120 Nursing II	9
<input type="checkbox"/> NURS 121 Nursing II Lab	1
	17

SECOND YEAR - Fall Semester

<input type="checkbox"/> BI 203 Microbiology	4
<input type="checkbox"/> NURS 230 Nursing III	8
<input type="checkbox"/> NURS 231 Nursing Lab III	1
	13

Spring Semester

<input type="checkbox"/> NURS 240 Nursing IV	7
<input type="checkbox"/> NURS 245 Transition to Practice	4
<input type="checkbox"/> NURS 210 Nursing Global Issues and Trends	2
	13

TOTAL CREDITS: 60

Program Information

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

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

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.

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



[PN.AC; CIP Code 51.3901]

Academic Certificate Program

This program combines general education with practical nursing courses to prepare students for entry-level practice. Upon successful completion of the program, graduates are eligible to apply to take the National Council Licensing Examination (NCLEX-PN) and to apply to a Board of Nursing for licensure as a Licensed Practical Nurse. The Nursing program is accredited by the New Jersey Board of Nursing.

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 evidenced-based nursing practice.
- Technology use for research, information processing and communication using the correct use of information literacy.

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

Practical Nursing, CERT

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

First Semester – Fall

Part A: 7 weeks

<input type="checkbox"/> BI 106 Anatomy & Physiology I	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PN 110 Practical Nursing I	4
<input type="checkbox"/> PN 111 Practical Nursing Lab	1

Part B: 7 weeks

<input type="checkbox"/> PN 120 Practical Nursing II	3
	<hr/>
	15

Second Semester – Spring

Part A: 5 weeks

<input type="checkbox"/> PN 130 Practical Nursing III	3
-------------------------------------------------------	---

Part B: 10 weeks

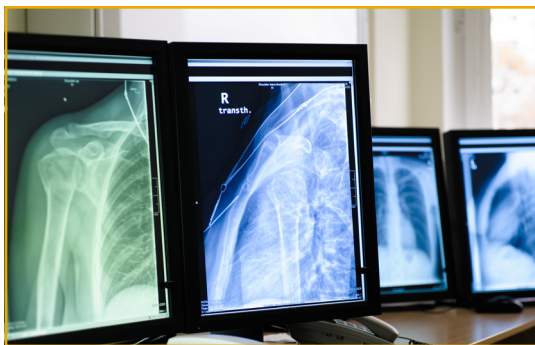
<input type="checkbox"/> BI 107 Anatomy & Physiology II	4
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> PN 140 Practical Nursing IV	5
	<hr/>
	15

TOTAL MINIMUM CREDITS: 30

Special Admission Requirements

- Practical Nursing is a selective admission program. Students must be accepted to the program prior to registering for any PRAC courses.
- Admission packets can be found on the College website.
- 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 Practical Nursing Program. CHBC results are sent to the clinical agencies, who have 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 Practical Nursing Program.
- Students who do not meet pre-requisite and co-requisite course requirements and/or grade requirements will not be able to progress in the Practical Nursing program.
- Students must complete the Practical Nursing program in two years from the start of the first Practical Nursing course.

PROGRAM GUIDE SHEET EFFECTIVE WITH CLASSES ENTERING 9/2025



Radiography, A.A.S.

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

[RAD.AAS; CIP Code 51.0907]

Associate in Applied Science - Career

This program combines courses in general education and radiography with supervised clinical experience in area hospitals and diagnostic imaging centers. Graduates are eligible to apply to take the American Registry of Radiologic Technologies Examination in Radiography and become nationally certified and also licensed by the State of New Jersey.

The program is approved by the Joint Review Committee on Education in Radiologic Technology and the Department of Environmental Protection/Bureau of X-Ray Compliance for the State of New Jersey.

Program Learning Outcomes

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

- Locate, retrieve, and critically evaluate information and information sources.
- Be competent when performing radiographic procedures.
- Demonstrate effective communication.
- Demonstrate problem solving/critical thinking skills.
- Display professional development and growth.
- Graduates will be employable and meet the needs of the healthcare community.

FIRST YEAR - Fall Semester

<input type="checkbox"/> BI 106 Anatomy and Physiology I	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> RT 101 Introduction to Radiography Science	3
<input type="checkbox"/> RT 102 Radiographic Procedures I	3
<input type="checkbox"/> RT 103 Clinical Practicum and Image Evaluation I	2
<input type="checkbox"/> RT 104 Radiographic Exposure I	2
	<hr/> 17

Spring Semester

<input type="checkbox"/> BI 107 Anatomy Physiology II	4
<input type="checkbox"/> CS 101 Introduction to Microcomputers or Computer Science Elective	3
<input type="checkbox"/> RT 106 Radiographic Exposure II	2
<input type="checkbox"/> RT 107 Radiographic Procedures II	3
<input type="checkbox"/> RT 110 Clinical Practicum and Image Evaluation II	2
<input type="checkbox"/> RT 121 Radiation Protection & Biology	3
	<hr/> 17

Summer Semester

<input type="checkbox"/> RT 111 Clinical Practicum and Image Evaluation III	2
<input type="checkbox"/> RT 200 Clinical Practicum and Image Evaluation IV	2
	<hr/> 4

SECOND YEAR - Fall Semester

<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> RT 201 Radiographic Procedures III	3
<input type="checkbox"/> RT 202 Clinical Practicum and Image Evaluation V	3
<input type="checkbox"/> RT 220 Equipment Operation & Maintenance I	2
<input type="checkbox"/> General Education Humanities Elective	3
	<hr/> 17

Spring Semester

<input type="checkbox"/> RT 205 Radiographic Procedures IV	3
<input type="checkbox"/> RT 206 Clinical Practicum and Image Evaluation VI	3
<input type="checkbox"/> RT 221 Equipment Operation & Maintenance II	2
<input type="checkbox"/> SO 201 Introduction to Sociology	3
<input type="checkbox"/> General Education Mathematics Elective (Excluding MA 109)	3-4
	<hr/> 14-15

TOTAL MINIMUM CREDITS: 69

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



DIVISION OF
**Science, Technology,
Engineering & Mathematics**



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

RCSJ.edu/STEM

Ryan Woody, Environmental Science

4 academic delivery methods:



In-Person



Live Online



Hybrid



Traditional Online

Find Your Program

From Engineering to Agribusiness, Physics to Mathematics, 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 Medicine, which let you bypass a bachelor's degree and proceed directly into a doctoral program; or take advantage of honors research programs, offered in cooperation with Rowan University and Princeton University.

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

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> AG 105 Introduction to Agricultural Science	3
<input type="checkbox"/> CH 101 General Chemistry I	4
<input type="checkbox"/> AG 209 Introduction to Soil Science	4
<input type="checkbox"/> General Education Diversity Elective	3
	<hr/> 14

Spring Semester

<input type="checkbox"/> AC 103 Accounting Principles I	4
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> Program Elective*	3-4
	<hr/> 16-17

SECOND YEAR - Fall Semester

<input type="checkbox"/> AG 106 Plant Science	4
<input type="checkbox"/> BI 101 General Biology I	4
<input type="checkbox"/> BU 207 Introduction to Marketing	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Social Science Elective	3
	<hr/> 17

Spring Semester

<input type="checkbox"/> AG 114 Internship	1
<input type="checkbox"/> BU 209 Business Law I	3
<input type="checkbox"/> Business (BU) Program Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics Elective	3
	<hr/> 13

TOTAL MINIMUM CREDITS: 60

*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



[AGRI.AS; CIP Code 01.0000]

Associate in Science (A.S.) – Transfer

The two-year transfer program in Agriculture is designed to provide the basic courses in general education and agriculture to students who plan to complete a bachelor's degree at a university. Agriculture scientists work in private and government industries in such fields as agricultural engineering, agronomy, animal breeding and genetics, forestry, nutrition, plant breeding, horticulture, soil science, and wildlife science.

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

Agriculture, A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> AG 105 Introduction to Agricultural Science	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> CH 101 General Chemistry I	4
<input type="checkbox"/> CS 110 Technology Literacy	2
<input type="checkbox"/> General Education History Elective	3
	15

Spring Semester

<input type="checkbox"/> BI 101 General Biology I	4
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> MA 110 College Algebra	3
<input type="checkbox"/> General Education Social Science Elective*	3
	16

SECOND YEAR - Fall Semester

<input type="checkbox"/> CH 102 General Chemistry II	4
<input type="checkbox"/> AG 106 Plant Science	4
<input type="checkbox"/> AG 209 Introduction to Soil Science	4
<input type="checkbox"/> General Education Social Science Elective or General Education Humanities Elective	3
	16

Spring Semester

<input type="checkbox"/> BI 102 General Biology II	4
<input type="checkbox"/> EC 202 Microeconomics	3
<input type="checkbox"/> AG Elective	3-4
<input type="checkbox"/> General Education Diversity Elective	3
	14-15

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.



[ASC.AS; CIP Code 24.0101]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

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

Arts and Sciences, A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> CS 111 Computer Science I	4
<input type="checkbox"/> MA 121 Pre-Calculus Mathematics	4
<input type="checkbox"/> Science Elective Pair I (first semester) ¹	4
	15

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 130 Calculus I	4
<input type="checkbox"/> STEM Elective ²	3-4
<input type="checkbox"/> Science Elective Pair I (second semester) ¹	4
<input type="checkbox"/> General Education Social Science or Humanities Elective	3
	17-18

SECOND YEAR - Fall Semester

<input type="checkbox"/> Science Elective Pair II (first semester) ¹	4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> 200 Level Science Elective ³	4
<input type="checkbox"/> Free Elective	3-4
	14-15

Spring Semester

<input type="checkbox"/> Science Elective Pair II (second semester) ¹	4
<input type="checkbox"/> 200 Level Science Elective ⁴	3
<input type="checkbox"/> Free Elective	3-4
<input type="checkbox"/> Free Elective	1-4
<input type="checkbox"/> General Education Social Science Elective	3
	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:	
If you take this course	you must take this to complete the pair
BI 101	BI 102
BI106	BI 107
CH 101	CH 102
CH 201	CH 202
PI 123	PI 124
PI 141	PI 142

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

2. One STEM Elective course must be selected from the following:

- BI 101, 122, 106, 108, 215, 203, 221
- CH 102, 201
- CS 112, 212, 216
- MA 140, 211, 212, 220, 210
- PI 123, 115, 141



Biological Science, A.S. Biology Track

[BIOMED.AS; CIP Code 26.0102]

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.

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> BI 101 General Biology	4
<input type="checkbox"/> CH 101 General Chemistry	4
<input type="checkbox"/> __ __ Math or Science General Education Elective	3-4
	<hr/> 14-15

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> BI 102 General Biology II	4
<input type="checkbox"/> CH 102 General Chemistry II	4
<input type="checkbox"/> MA 130 Calculus I	4
	<hr/> 15

SECOND YEAR - Fall Semester

<input type="checkbox"/> BI 221 Cell and Molecular Biology or BI 203 Microbiology	4
<input type="checkbox"/> __ __ Humanities General Education Elective	3
<input type="checkbox"/> __ __ Social Science General Education Elective	3
<input type="checkbox"/> CH 201 Organic Chemistry I	4
	<hr/> 14

Spring Semester

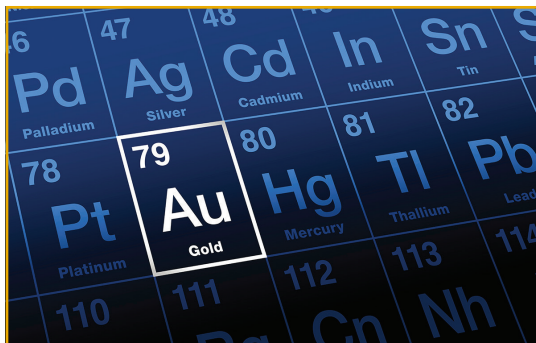
<input type="checkbox"/> BI 215 Ecology	4
<input type="checkbox"/> CH 202 Organic Chemistry II	4
<input type="checkbox"/> SP 203 Effective Speech or General Education Elective	3
<input type="checkbox"/> __ __ Humanities/Social Science General Education Elective	3
<input type="checkbox"/> EN 103 Technical Writing	3
	<hr/> 17

TOTAL CREDITS: 60

Program Notes

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

* Students planning on transferring to Rowan University should take BI 221 Cell and Molecular Biology.



[CHEM.AS; CIP Code 40.0501]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

- Students will demonstrate competency in fundamental inorganic and organic chemistry topics by applying critical thinking and problem solving skills to solving chemistry-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.

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

Chemistry, A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> BI 101 General Biology I	4
<input type="checkbox"/> MA 130 Calculus I	4
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> CH 101 General Chemistry I (Prog EI)	4
	<hr/> 15

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 140 Calculus II	4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> EN 103 Technical Writing	3
<input type="checkbox"/> CH 102 General Chemistry II (Prog EI)	4
	<hr/> 17-18

SECOND YEAR - Fall Semester

<input type="checkbox"/> PI 141 General Physics I	4
<input type="checkbox"/> Program Elective	3-4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> CH 201 Organic Chemistry I (Prog EI)	4
	<hr/> 14-15

Spring Semester

<input type="checkbox"/> PI 142 General Physics II	4
<input type="checkbox"/> General Education Social Science Elective or General Education Humanities	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> CH 202 Organic Chemistry II (Prog EI)	4
	<hr/> 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.



[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.

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

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> BI 101 General Biology I	4
<input type="checkbox"/> CH 101 General Chemistry I (Prog El)	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Elective	3-4
<input type="checkbox"/> Free Elective	1-3
	<hr/> 15-18

Spring Semester

<input type="checkbox"/> BI 102 General Biology II	3
<input type="checkbox"/> CH 102 General Chemistry II (Prog El)	4
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 130 Calculus I	4
<input type="checkbox"/> General Education Social Science Elective	3
	<hr/> 14

SECOND YEAR - Fall Semester

<input type="checkbox"/> BI 106 Anatomy & Physiology I	4
<input type="checkbox"/> BI 203 Microbiology	4
<input type="checkbox"/> CH 201 Organic Chemistry I (Prog El)	4
<input type="checkbox"/> PI 123 Fundamentals of Physics I	4
	<hr/> 16

Spring Semester

<input type="checkbox"/> BI 107 Anatomy and Physiology II	4
<input type="checkbox"/> CH 202 Organic Chemistry II	4
<input type="checkbox"/> PI 124 Fundamentals of Physics II	4
<input type="checkbox"/> General Education Social Science Elective or General Education Humanities Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
	<hr/> 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.



Computer Science, A.S.

[COMPSCI.AS; CIP Code 11.0101]

Associate in Science (A.S.) – Transfer

This program prepares students to continue their education at a four-year college or university in fields such as computer science, computer information sciences and information systems management. The program parallels the computer science offerings at four-year colleges and universities.

Program Learning Outcomes

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

- Apply critical thinking skills to design application programs within the context of a business system.
- Apply computing skills to develop application-based solutions within the context of a business system.
- Locate, retrieve, and critically evaluate information and information sources.
- Demonstrate competency and comprehension in selected categories of the Computer Science body of knowledge to align with current academic and professional best practices.

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

FIRST YEAR - Fall Semester

<input type="checkbox"/> CS 212 C++ Programming	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 130 Calculus I	4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Social Science Elective	3
	<hr/> 17

Spring Semester

<input type="checkbox"/> CS 112 Computer Science II	4
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 140 Calculus II	4
<input type="checkbox"/> PI 141 General Physics I	4
	<hr/> 15

SECOND YEAR - Fall Semester

<input type="checkbox"/> CS 203 Assembly Language and Computer Organization	4
<input type="checkbox"/> CS 216 Intermediate Java Programming	4
<input type="checkbox"/> MA__ Mathematics Elective MA 212 or MA 210*	4
<input type="checkbox"/> General Education Humanities/Social Science Elective	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> CS 232 Data Structures and Algorithms	4
<input type="checkbox"/> MA 211 Discrete Mathematics	3
<input type="checkbox"/> PI 142 General Physics II	4
<input type="checkbox"/> Free Elective	2-4
	<hr/> 13

TOTAL MINIMUM CREDITS: 60

Program 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.



[CYB.SEC.AS; CIP Code 43.0403]

Associate in Science (A.S.) – Transfer

The Cybersecurity field is listed as one of the fastest growing fields by the U.S. Department of Labor Statistics. This program is designed to be approachable, practical, and a good foundation for further study. The Associate in Science (AS) degree in Cybersecurity is designed to provide two academic years of college study for transfer to a four-year college or university.

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 least one industry-recognized certification, such as CEH Certified Ethical Hacker), CompTIA CSA (Cybersecurity Analyst), CompTIA A+ (Hardware repair).

Are you ready to get started at RCSJ? Visit [RCSJ.edu/Enroll](https://www.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

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 110 College Algebra	3
<input type="checkbox"/> CS 101 Introduction to the Microcomputer	3
<input type="checkbox"/> CS 217 Introduction to Networks	4
<input type="checkbox"/> General Education Humanities Elective	3
	16

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA205 Statistics I	3
<input type="checkbox"/> CS 229 Linux Installation and Configuration	3
<input type="checkbox"/> CS 242 Principles of Information Security	3
<input type="checkbox"/> General Education Elective	3
	15

SECOND YEAR - Fall Semester

<input type="checkbox"/> CS 226 Network Infrastructure Implementation	3
<input type="checkbox"/> CS 240 Security +	3
<input type="checkbox"/> CS 241 Computer Forensics	3
<input type="checkbox"/> General Education Lab Science Elective	4
<input type="checkbox"/> General Education Social Science Elective	3
	17

Spring Semester

<input type="checkbox"/> CS 212 Programming in C ++	4
<input type="checkbox"/> CS 265 Ethical Hacking	4
<input type="checkbox"/> IT 116 Workplace Ethics	1
<input type="checkbox"/> General Education Diversity Elective	3
	12

TOTAL CREDITS: 60

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.





After completing the Cybersecurity 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.

Computing and Informatics 3+1

THIRD YEAR — Fall Semester

<input type="checkbox"/> CS 112 Computer Science II	4
<input type="checkbox"/> CS 232 Data Structures and Algorithms	4
<input type="checkbox"/> EN 201 British Literature	3
<input type="checkbox"/> SP 203 Effective Speech	3
	<hr/>
	14



Spring Semester

<input type="checkbox"/> CS 337 Applied Database Technologies	3
<input type="checkbox"/> CS 216 Intermediate Java Programming	4
<input type="checkbox"/> MA 211 Discrete Math	4
<input type="checkbox"/> Elective	3
	<hr/>
	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.



Industry & Employment Opportunities

Bachelor

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

Master

Computer and Information Research Scientist

Questions?

About 3+1:

Stephen Sweeney, 3+1 Assistant Director,
ssweene1@rcsj.edu

[RCSJ.edu/3plus1](https://rcsj.edu/3plus1)



Electrical Engineering Technology, A.A.S.

[EET.AAS; CIP Code 15.0612]

Associate in Applied Science - Career

This program prepares students for entry-level employment in the fields of electronic, mechatronics, and manufacturing as well as transfer into baccalaureate programs leading to careers in fields in manufacturing, product development, management, and engineering technology across robotics, automotive, medical, and various industrial fields.

The flexibility offered by this program allows for entrance directly into the workforce or transfer into a BS in Engineering Technology program. Students should choose their electives deliberately with the transfer destination in mind.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> EG 101 Introduction to Engineering I	2
<input type="checkbox"/> IT 107 Circuits I	3
<input type="checkbox"/> MA 121 Precalculus Mathematics	4
<input type="checkbox"/> PI 123 Fundamentals of Physics I	4
	<hr/> 16

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 130 Calculus I	4
<input type="checkbox"/> EG 103 Introduction to Engineering Lab I	2
<input type="checkbox"/> PI 124 Fundamentals of Physics II	4
<input type="checkbox"/> CS 212 C++ Programming	4
	<hr/> 17

SECOND YEAR - Fall Semester

<input type="checkbox"/> EG 211 Introduction to Engineering II	1
<input type="checkbox"/> IT 205 Digital Electronics	3
<input type="checkbox"/> EC 201 Principles of Economics (Macro) or EC 202 Principles of Economics (Micro)	3
<input type="checkbox"/> IT 227 Circuits II	3
<input type="checkbox"/> IT 111 Electronics	4
	<hr/> 14

Spring Semester

<input type="checkbox"/> EG 212 Introduction to Engineering II Lab	1
<input type="checkbox"/> IT 241 Robotics and Motion Control	3
<input type="checkbox"/> IT 218 Programmable Logic Controllers	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> IT 244 Instrumentation & Measurement	3
	<hr/> 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

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



ENG.AS; CIP Code 14.0102

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.

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.

Engineering, A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EG 101 Introduction to Engineering I	2
<input type="checkbox"/> PI 141 General Physics I	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 130 Calculus I	4
<input type="checkbox"/> General Education Humanities Elective	3
	<hr/>
	16

Spring Semester

<input type="checkbox"/> EG 103 Introduction to Engineering I Lab	2
<input type="checkbox"/> PI 142 General Physics II	4
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 140 Calculus II	4
<input type="checkbox"/> General Education Social Science Elective or General Education Humanities Elective	3
<input type="checkbox"/> Program Elective*	3-4
	<hr/>
	19-20

SECOND YEAR - Fall Semester

<input type="checkbox"/> EG 211 Introduction to Engineering II	1
<input type="checkbox"/> MA 210 Calculus III	4
<input type="checkbox"/> CH 101 General Chemistry I	4
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> Program Elective*	3-4
	<hr/>
	15-16

Spring Semester

<input type="checkbox"/> CS 212 C++ Programming	4
<input type="checkbox"/> EG 212 Introduction to Engineering II Lab	1
<input type="checkbox"/> MA 220 Differential Equations	4
<input type="checkbox"/> MA 207 Linear Algebra for Engineers	1
<input type="checkbox"/> EC 201 Principles of Macroeconomics or EC 202 Principles of Microeconomics	3
<input type="checkbox"/> Program Elective*	3-4
	<hr/>
	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

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



[ENG.TECH.AC; CIP Code 15.0612]

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](https://www.rcsj.edu/enroll) and complete the interest form.

Engineering Technology, CERT

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> IT 102 Fundamentals of Engineering Technological Design	3
<input type="checkbox"/> IT 105 Blueprint Reading & Sketching	2
<input type="checkbox"/> IT 107 Circuits I	3
<input type="checkbox"/> IT 112 Introduction to Engineering Technology Lab	2
<input type="checkbox"/> General Education Business or Computer Science Elective	3
	16

Spring Semester

<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing	3
<input type="checkbox"/> IT 211 Advanced Engineering Technological Design	3
<input type="checkbox"/> MA 110 College Algebra	3
<input type="checkbox"/> Program Elective*	3
<input type="checkbox"/> Program Elective*	3
	15

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



Engineering Technology/ Electronics Technology, CERT

[ENG.TECH.ELEC.AC; CIP Code 15.0399]

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](https://www.rcsj.edu/enroll) and complete the interest form.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN101 English Composition I	3
<input type="checkbox"/> MA 110 College Algebra or MA 121 Pre-Calculus	3-4
<input type="checkbox"/> IT 218 Programmable Logic Controllers	3
<input type="checkbox"/> IT 107 Circuits I	3
<input type="checkbox"/> EG 101 Introduction to Engineering	2
	14-15

Spring Semester

<input type="checkbox"/> EN102 English Composition II or EN103 Technical Writing	3
<input type="checkbox"/> EG 103 Introduction to Engineering Laboratory	2
<input type="checkbox"/> IT 205 Digital Electronics	3
<input type="checkbox"/> Program Elective*	3-4
<input type="checkbox"/> 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



Engineering Technology/ Electronics Technology, COA

[ENG.TECH.ELEC.CC; CIP Code 15.1199]

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.

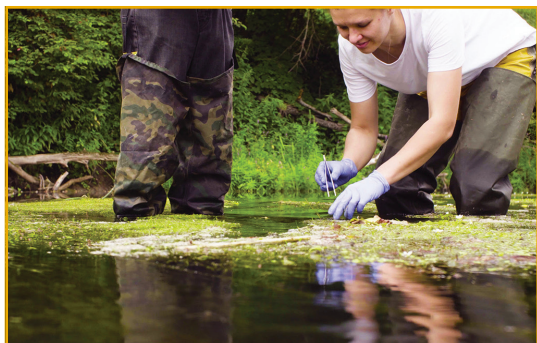
Are you ready to get started
at RCSJ? Visit [RCSJ.edu/Enroll](https://www.rcsj.edu/enroll)
and complete the interest
form.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EG 101 Introduction to Engineering	2
<input type="checkbox"/> IT 107 Circuits I	4
<input type="checkbox"/> IT 205 Digital Electronics	3
<input type="checkbox"/> IT 218 Programmable Logic Controllers	3
<input type="checkbox"/> MA 110 College Algebra or MA 121 Pre-Calculus	3-4
<input type="checkbox"/> Program Elective	1-4
	<hr/> 16-20

TOTAL MINIMUM CREDITS: 16

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



[ENVS.AS; CIP Code 03.0104]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

- Understand and apply basic scientific principles to the study of environmental issues overall including the use of resources in a sustainable manner.
- Develop and demonstrate the basic skill set, techniques and procedures required to conduct and analyze field and laboratory work in environmental sciences

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

Environmental Science A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> BI 101 General Biology I	4
<input type="checkbox"/> MA 121 Pre-Calculus or MA 130 Calculus 1 ¹	4
<input type="checkbox"/> BI 122 Environmental Science	4
	15

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> BI 102 General Biology II	4
<input type="checkbox"/> MA 205 Statistics	3
<input type="checkbox"/> GL 101 Physical Geology	4
	14

SECOND YEAR - Fall Semester

<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> BI 215 Ecology	4
<input type="checkbox"/> GL 115 Introduction to Geographic Information Systems	3
<input type="checkbox"/> ____ Program Elective ²	4
	16

Spring Semester

<input type="checkbox"/> BI 209 Research Methods & Data Analysis	4
<input type="checkbox"/> ____ Program Elective	4
<input type="checkbox"/> ____ Humanities General Education Elective	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
<input type="checkbox"/> EC 201 Principles of Economics I (Macro)	3
	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



[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 through a field experience.
- Locate, retrieve, and critically evaluate information and information sources.

Horticulture, A.A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> AG 105 Introduction to Agricultural Science	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> CH 101 Chemistry I	4
<input type="checkbox"/> OH 130 Identification of Interior Plants	3
<input type="checkbox"/> BU 219 Retailing	3
	16

Spring Semester

<input type="checkbox"/> AG 207 Agricultural Pest Control and Identification	4
<input type="checkbox"/> BI 101 General Biology I	4
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech	3
<input type="checkbox"/> General Education Mathematics Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
	17

SECOND YEAR - Fall Semester

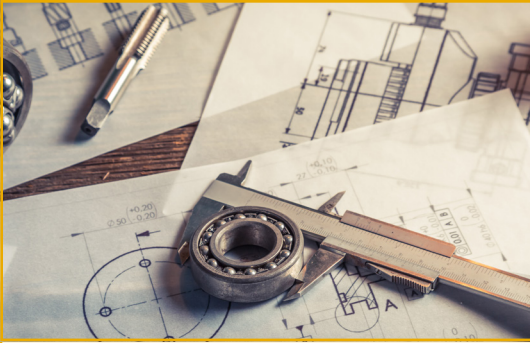
<input type="checkbox"/> AG 106 Plant Science	4
<input type="checkbox"/> AG 209 Introduction to Soil Science	4
<input type="checkbox"/> OH 106 Plant Materials	3
<input type="checkbox"/> General Education Social Science Elective	3
	14

Spring Semester

<input type="checkbox"/> AG 107 Plant Propagation	3
<input type="checkbox"/> AG 108 Herbaceous Plants	3
<input type="checkbox"/> OH 204 Greenhouse Management	4
<input type="checkbox"/> General Education Diversity Elective	3
	13

TOTAL CREDITS: 60

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



[MET.AAS; 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 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.

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

Mechanical Engineering Technology, A.A.S.

FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> EG 101 Introduction to Engineering I	2
<input type="checkbox"/> MA 121 Precalculus Mathematics	4
<input type="checkbox"/> PI 123 Fundamentals of Physics I	4
<input type="checkbox"/> EG 102 Graphics	3
	16

Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 130 Calculus I	4
<input type="checkbox"/> EG 103 Introduction to Engineering Lab I	2
<input type="checkbox"/> PI 124 Fundamentals of Physics II	4
<input type="checkbox"/> IT 107 Circuits I	3
	16

SECOND YEAR - Fall Semester

<input type="checkbox"/> EG 211 Introduction to Engineering II	1
<input type="checkbox"/> EG 201 Statics	3
<input type="checkbox"/> EC 201 Principles of Economics (Macro) or EC 202 Principles of Economics (Micro)	3
<input type="checkbox"/> CH 101 General Chemistry	4
<input type="checkbox"/> IT 160 CNC Programming	4
	15

Spring Semester

<input type="checkbox"/> EG 212 Introduction to Engineering II Lab	1
<input type="checkbox"/> EG 202 Engineering Dynamics	3
<input type="checkbox"/> IT 218 Programmable Logic Controllers	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> EG 200 Matlab Programming	3
	13

TOTAL CREDITS: 60

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

General Education Goal(s) addressed								Course Categories (Goal Categories)	AA credits	AS credits	AAS, AFA, AS Nursing credits	Certificate credits
1								Communication (Written and Oral Com.)	9	6	6	3
	2							Mathematics – Science – Technology <ul style="list-style-type: none"> • Mathematics 3-8 cr. (Quant. Knlg. & Skills) • Science 3-8 cr. (Sci. Knlg. & Rsng.) • Technological Competency 0-4 cr. 	6	9	3	3
		3										
			4									
				5				Social Science (Society and Human Behavior)	6	3	3	3
					6		Humanities (Humanistic Perspective)	6	3			
						7		History (Historical Perspective)	3			
							8	Diversity Courses (Global & Cult. Awns.)	3			
Unassigned general education credit										6	8	
General Education Foundation Total									33	30	20	6

Gen. Ed. Foundation Course Categories	NJCC Goal Categories*	Course Criteria: Below are brief descriptions of the course criteria for satisfying the requirements. For fuller descriptions see the NJCC GE Course Criteria (September 6, 2011).
1 Communication	1 Written and Oral Communication	An array of courses which prepare students to speak, read, and write effectively. At least two of these must be composition courses for A.A. and A.S. degrees. At least one of these must be a composition course for specialized degree programs and certificates.
2 Mathematics	2 Quantitative Knowledge and Skills	Any college level mathematics course including statistics, algebra, or calculus course(s). These courses should build upon a demonstrated proficiency in basic algebra.
3 Science	3 Scientific Knowledge and Reasoning	Any course(s) in the biological or physical sciences - including non-majors survey courses. At least one of these courses must have a laboratory component.
4 Technology	4 Technological Competency	Any course that emphasizes common computer technology skills (e.g. computer science, information technology) that helps students to access, process, and present information. This component is not required for students who can demonstrate competency.
5 Social Science	5 Society and Human Behavior	Any introductory course(s) from among anthropology, economics, geography, political science, psychology, or sociology.
6 Humanities	6 Humanistic Perspective	Any broad-based course(s) in the appreciation of art, music, or theater; literature: foreign language; history: philosophy and/or religious studies.
7 History	7 Historical Perspective	Any broad-based course(s) or sequence of courses in World, Western, non-Western, or American History.
8 Diversity Courses	8 Global and Cultural Awareness	Any course whose purpose is to expose students to a multicultural society or people, possibly within the context of non-introductory study of a foreign language. If this goal is integrated into one or more general education course(s), the three credits may be moved from this category to another general education category.
General Education Integrated Course Goal		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		This ethical reasoning and action goal may be infused in any of the above categories. These courses should include the ethical implications of issues and situations.
Information Literacy		These courses include the requirement for students to address an information need by locating, evaluating and effectively using in formation.
Note: This document should be used in conjunction with the NJCC GE Learning Goals & Suggested Individual College-Wide Learning Obj. (9-6-2011).		

Programs	Allocation Notes: The credit allocation below is consistent with the 1997 NJCC Gen. Ed. Foundation grid.
AA	The Associate in Arts (AA) degree requires 33 semester credits hours of general education coursework from among the indicated categories. Individual community colleges may choose to require general education and other credits* in excess of the minimum, and make their own determination about the distribution. (*E.g., Student Success, Studio Arts, Communication, Math-Science-Tech, Social Science, Humanities, History and/or Diversity courses)
AS	The Associate in Science (AS) degree requires a minimum of 30 semester credits hours from among the indicated categories, with minimum distributions as shown.
Specialized Associate AAS, AFA, & AS Nursing	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. Notwithstanding any articulation agreements, the general education courses should support career preparation. General education coursework in excess of the 12 credits listed should follow the AS distribution limits.
Certificate	The Certificate (or Academic Certificate) shall prepare students to read and write effectively. At least one other general education course is required. The Certificate of Achievement (COA) requires no general education courses beyond those that support career education. The Certificate of Completion (COC) is a noncredit certification program, which is not applicable within the general education context.

GENERAL EDUCATION ELECTIVES

1. Communication (Written & Oral Communication) C

EN 101 English Composition I
 EN 102 English Composition II
 EN 103 Technical Writing (AAS)
 SP 203 Effective Speech

2. Mathematics (Quantitative Knowledge & Skills) M

MA 105 Intermediate Algebra
 MA 109 Principles of Mathematics
 MA 110 College Algebra
 MA 115 Mathematical Structures
& Algorithms
 MA 119 Structure of Mathematics II
 MA 120 College Trigonometry
 MA 121 Precalculus Mathematics
 MA 122 Business Calculus
 MA 130 Calculus I
 MA 140 Calculus II
 MA 149 Mathematics for Management
 MA 205 Statistics I
 MA 206 Statistics II
 MA 211 Discrete Mathematics
 MA 212 Linear Algebra

3. Science (Scientific Knowledge & Reasoning) B

BI 101 General Biology I
 BI 102 General Biology II
 BI 108 Human Biology
 BI 106 Anatomy & Physiology I
 BI 107 Anatomy & Physiology II
 BI 117 Introduction to Biology
 BI 122 Environmental Science
 BI 203 Microbiology
 BI 221 Cell and Molecular Biology
 CH 101 General Chemistry I
 CH 102 General Chemistry II
 CH 107 Introductory Chemistry
 CH 201 Organic Chemistry I
 CH 202 Organic Chemistry II
 GL 101 Physical Geology
 GL 102 Historical Geology
 GL 117 Earth Science
 PI 105 Physical Science
 PI 108 Atmospheric Science Concepts
 PI 109 Physics of Musical Sound
 PI 110 Principles of Science I
 PI 115 Astronomy
 PI 123 Fundamentals of Physics 1
 PI 124 Fundamentals of Physics II
 PI 141 General Physics I
 PI 142 General Physics II
 PI 241 Forensic Science I

4. Technology (Technological Competency or Information Literacy) T

CS 101 Introduction to Microcomputers
 CS 102 Applications on the
Microcomputer
 CS 113 Introduction to Computers
 CS 114 Fundamentals of Programming

5. Social Sciences (Society & Human Behavior) S

AN 102 Cultural Anthropology
 EC 103 Introduction to Economics
 EC 201 Principles of Macroeconomics
 EC 202 Principles of Microeconomics
 GE 101 World Regional Geography
 GE 102 Cultural Geography
 PS 201 American Federal Government
 PS 203 State & Local Government
 PY 101 General Psychology
 PY 102 Child Psychology
 PY 207 Human Growth & Development
 SO 130 Society, Ethics & Technology
 SO 201 Introductory Sociology

6. Humanities (Humanistic Perspective)H

Art/Music/Theatre

AR 101 Art Appreciation
 AR 107 Art History I
 AR 108 Art History II
 MU 101 Music Appreciation
 MU 114 History of Music
 MU 115 History of Jazz & Popular Music
 TH 101 Theatre Appreciation
 TH 201 Theatre History

Literature

EN 201 British Literature I
 EN 202 British Literature II
 EN 205 Masterpieces of Western Lit I
 EN 206 Masterpieces of Western Lit II
 EN 208 Images of Women in Literature
 EN 209 American Literature I
 EN 210 American Literature II
 EN 215 African-American Literature
 EN 219 Modern American Literature
 EN 221 Short Story
 EN 222 Drama
 EN 223 Poetry
 EN 225 Introduction to Latino Literature
 EN 248 LGBTQA+ Authors and
Filmmakers

Foreign Languages

FR 101 Elementary French I
 FR 102 Elementary French II
 FR 201 Intermediate French I

FR 202 Intermediate French II
 LI 101 Elementary Italian I
 LI 102 Elementary Italian II
 LS 101 Elementary Spanish I
 LS 102 Elementary Spanish II
 LS 201 Intermediate Spanish I
 LS 202 Intermediate Spanish II

Philosophy/Religion

PH 101 Introduction to Philosophy
 PH 102 Introduction to Ethics
 RL 101 Perspectives on Religion
 RL 102 World Religions
 RL 103 Intro to Asian Religions

7. History (Historical Perspective) Y

HI 101 Western Civilization I
 HI 102 Western Civilization II
 HI 103 World History and Culture I
 HI 104 World History and Culture II
 HI 113 Latin American History
 HI 201 United States History I
 HI 202 United States History II
 HI 208 African American History

8. Global & Cultural Awareness (Diversity) D

AN 102 Cultural Anthropology
 AN 103 Cultural Diversity in the U.S.
 EN 208 Images of Women in Literature
 EN 225 Introduction to Latino Literature
 FR 201 Intermediate French I
 FR 202 Intermediate French II
 GE 101 World Regional Geography
 GE 102 Cultural Geography
 GE 110 Cultural Geography of
North America
 HI 103 World History and Culture I
 HI 104 World History and Culture II
 HI 113 Latin American History
 HI 116 The Holocaust
 HI 208 African American History
 LS 201 Intermediate Spanish I
 LS 202 Intermediate Spanish II
 MU 115 History of Jazz & Pop Music
 RL 102 World Religions
 RL 103 Intro to Asian Religions
 SO 207 Social Minorities &
Intergroup Relations

Ethical Reasoning & Action

Ethical Reasoning and Action are infused
in all of the above categories (1-8).

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. Pre or Co Req: MA-105

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-104

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-201

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.)

Includes planting, care, production and marketing of the major fruit crops grown in New Jersey. Techniques involved in pruning, budding, and grafting trees will be demonstrated. Students will have an opportunity to practice these skills. Prerequisite: EN-060

AG-206: Vegetable 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

ART**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 techniques of working with pencil, charcoal, pen, ink and pastels. The basic elements of art and compositional strategies will be explored. Studio hours to be announced.

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 wood cut 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 success in any future endeavors, whether they are directly scientific or not. Computer software will be used regularly to manipulate and analyze data and present results. 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

BI-221: Cell and Molecular Biology (4.00 cr.)

This course will provide students a background in contemporary biochemical, cell, molecular and biotechnology techniques currently utilized in biological science laboratories. Lectures will focus on the subcellular distribution and function of macromolecules, regulation of gene expression, recombinant DNA technology, gene therapy techniques and the molecular basis of cell signaling and cancer. Emphasis will be placed on developing fundamental laboratory skills utilizing recombinant DNA technology and other current techniques of cell and molecular biology. Student must have taken BI-102 or BI-107 and passed with a minimum grade of "C."

BU-122: Introduction to Entrepreneurship (3.00 cr.)

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

BUSINESS**BU-106: Principles of Management (3.00 cr.)**

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 overall 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: Business Ethics (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-249: Introduction to International Business (3.00 cr.)

Designed to familiarize the student with the economic, organizational, cultural, and managerial aspects of international business.

BU-288: Strategic Management (4.00 cr.)

This capstone course synthesizes the business skills with the need to successfully manage a business enterprise by developing and effectively implementing a sound business strategy. Prerequisite: BU-106 and BU-115

BU-300: Applied Organizational Behavior (3.00 cr.)

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.

BU-304: Issues in Business: Directed Research (3.00 cr.)

This upper-division course focuses on the current issues and trends in business as found in the business media. The course is designed to allow students to explore areas of personal interest through the collection of research and the presentation of such material in written and spoken formats.

BU-308: Applied Human Resource Management (3.00 cr.)

This course will provide an overview of human resource management (HRM). HRM is a fundamental component of the competitiveness, effectiveness, and sustainability of any organization, as it influences who is hired, how they are trained, evaluated, retained and compensated. Throughout the course we will focus on the role of managers and how they can develop and implement effective and efficient human resource practices that support the strategic objectives of their firms. We will focus on the everyday human resource decisions made by all managers (e.g., selection, evaluation, compensation, termination).

BU-310: Business Logistics (3.00 cr.)

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.

CERAMICS**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.

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 to learn all facets of gallery management, including planning and installing exhibitions and marketing and retailing in a craft environment. Students will meet with the instructor of Craft Business Practices who will organize the work schedule for the gallery. 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, alkynes, 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 alkynes, 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.

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 of 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.

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 an introduction to techniques using computer-based music recording and multimedia software found on the Mac OSX platform utilizing Garage band, Logic Pro X, Safari, and Cloud-based file transfer. 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

CO-216: Foundations Media Production (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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.

COMPUTER GRAPHICS**CG-106: Design, Type and Color (3.00 cr.)**

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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. Student 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 features 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-175: Core Client Operating Systems (3.00 cr.)**
Students are introduced to the functions and features of installing, configuring and maintaining Windows as a client operating system. Through hands-on lab instruction, students will learn about installation, administration of resources, managing and troubleshooting hardware devices and drivers, network protocols, and security.
- 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 Prgrming 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 Impleme (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 & Imp (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 the 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 NRLB 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 be 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, wire-tapping 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.)	CJ-216: Crime Analysis & Mapping (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	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-120: Cybercrime (3.00 cr.)	CJ-218: Victimology (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	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-130: Intro to Emergency Management (3.00 cr.)	CJ-220: Youth, Gangs & Violence (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	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-141: Criminal Justice Leadership (3.00 cr.)	CJ-222: Incident Cmnd: Theory & Pract (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	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-202: Police Organ. & Admin. (3.00 cr.)	CJ-223: Global Catastrophes (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	This course will focus on the impact of natural and technological disasters around the world from a global perspective. It will focus on global, national, regional, and local events such as hurricanes, droughts, disease outbreaks, nuclear disasters, and earthquakes. The course will also examine the social, geographical, and cultural factors that put people at risk before, during, and after disastrous events. Using case studies, students will explore how vulnerable social groups are affected by and cope with hazardous conditions and events. 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-205: Criminal Investigation (3.00 cr.)	CJ-238: Crime on the Internet (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	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-206: Terrorism (3.00 cr.)	CJ-300: Critical Infrastructure (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	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-207: The Admin of Justice (3.00 cr.)	CJ-301: Drug & Crime in America (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.	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-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-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 EN-102 English Composition II 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 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 from 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.

DENTAL**DENT 101: Dental Science I (1.00 cr.)**

This course is a study of general anatomy and physiology, basic anatomy of the oral cavity, oral histology, and oral embryology, as well as a study of the nomenclature, structure, morphology, and function of the teeth. Lecture sessions are designed to emphasize the clinical appearance of the anatomical features of the teeth and to point out relationships to adjacent teeth, opposing teeth, and surrounding tissues. This course also describes the structure and function of the gross structures of the head and neck, embryology, and histology. Discussions will emphasize the importance of anatomical concepts to dental patient treatment. It will also describe oral anomalies commonly found in dentistry. Students must receive a grade of 'C' or higher in all dental courses. Prerequisites: Admittance to the dental assisting program; Corequisites: PY 101, EN 101, SO 201

DENT 102: Dental Science II (2.00 cr.)

This course will provide a continued study of the dynamics of oral health, preventive dentistry, risks and disease prevention, treatment of dental disease, and follow-up to the disciplines of oral embryology and histology. The course will introduce the dental assisting student through lectures to the dental sciences, oral pathology, review of the recognition and identification of normal oral tissues and anomalies, nutrition, and pharmacology which includes the most used and prescribed pharmaceuticals in dentistry. An emphasis will be placed on systemic disorders and related oral sequelae, and the treatment of patients with special needs. The course also includes nutrition with an applicable project. Finally, the course will give an overall understanding of pharmacology about drug requirements, regulations, agencies, prescriptions, reactions, indications, contraindications, most used, anesthetics, and agents used to treat dental-related infections. Students must receive a grade of 'C' or higher in all dental courses. Prerequisites: DENT 101, PY 101, SO 201, EN 101 Corequisites: DENT 105, DENT 107, DENT 110

DENT 105: Chairside Assisting & Expanded Functions I (4.00 cr.)

This course is designed to introduce the student to the clinical aspect of dentistry. Through lecture, pre-clinical, and laboratory sessions, the student learns dental procedures and the role of dental auxiliary in the following areas: chairside assisting, general dentistry, special needs patients, medical emergencies, and modifications to normal dental routines. Learned skills will be utilized in clinical settings and volunteer activities. Students must receive a grade of 'C' or higher in all dental courses. Prerequisite: DENT 101, Co-requisites: DENT 102, DENT 107, DENT 110

DENT 107: Dental Infection Control & Biomedical Science (3.00 cr.)

This course is designed to introduce the student, through lecture and lab, to the fundamental study of sterilization, infection control protocols, the transmission of infectious diseases, immunization, and applications of universal precautions. Students will learn basic microbiology, modes of transmission, and the asepsis techniques that will include sterilization, spore monitoring, and surface asepsis techniques in the dental setting. This course includes the proper Personal Protective Equipment needed to ensure proper care for patients and professionals. Students must receive a grade of 'C' or higher in all dental courses. Prerequisite: DENT 101, Co-requisites: DENT 102, DENT 105, DENT 110

DENT 110: Dental Radiology (4.00 cr.)

This course is pending approval by the New Jersey Radiologic Technology Board of Examiners. The purpose of this course is to introduce the dental assisting student, through lecture and lab, to the basic radiologic principles of intraoral and extraoral imaging for dentoalveolar structures. The radiographic examination plays an integral role in the diagnostic process in dentistry in conjunction with the clinical examination. Dental assistants must be proficient with intraoral and extraoral techniques to fulfill their roles as licensed dental radiologic technologists. Students must receive a grade of 'C' or higher in all dental courses. Prerequisites: DENT 101, Co-requisites: DENT 102, DENT 105, DENT 107

DENT 120: Dental Patient & Practice Management (2.00 cr.)

This course is designed for the student to learn through lectures computer and dental software, business and personal ethics, public health, jurisprudence, legal responsibilities of dental healthcare professionals, professional written and oral communication skills, maintenance of inventory and supplies, product ordering, management of business and patient records, recalls systems, NJ Board of Dentistry Guidelines, New Jersey Registered Dental Assist Dental Practice Act, prepare the dental auxiliary student to provide patient education to individuals and groups, focus on the patient as a whole person, and analyze the patient's lifestyle, values, behavior patterns and the environment in which the patient lives. The course takes the student through the process of regarding the development, implementation, and evaluation of dental health education programs in several settings. This course will also provide the student with volunteer opportunities to practice public health. Students must receive a grade of 'C' or higher in all dental courses. Prerequisites: DENT 102, DENT 105, DENT 107, DENT 110 Co-requisites: DENT 205, DENT 125, DENT 210

DENT 125: Dental Materials (2.00 cr.)

This course will introduce and reinforce theory, techniques, and application in the handling of dental materials through lectures and labs. Information and proper manipulation of dental materials will be taught to a proficiency level and will be explored further in clinical settings. Expanded functions as listed in the scope of practice for New Jersey Dental Assistants are included whenever applicable to reinforce the importance of understanding the utilization of dental materials. Students must receive a grade of 'C' or higher in all dental courses. Prerequisites: DENT 110; Co-requisites: DENT 205, DENT 120, DENT 210

DENT 205: Chairside Assisting & Expanded Functions II (4.00 cr.)

This course is designed to introduce the student to each of the recognized dental specialties. Through lecture and laboratory sessions, the student will learn dental procedures and the role of the dental auxiliary in the following areas: chairside assisting, dental public health, preventative dentistry, endodontics, oral and maxillofacial surgery, orthodontics and dentofacial orthopedics, pediatric dentistry, periodontics, prosthodontics, dental anesthesiology, oral and maxillofacial pathology, and oral and maxillofacial radiology, and dental related environmental hazards. Learned skills will be utilized in clinical settings and volunteer activities. Students must receive a grade of 'C' or higher in all dental courses. Prerequisites: DENT 110; Co-requisites: DENT 120, DENT 125, DENT 210

DENT 210: Dental Externship (7.00 cr.)

The focus of this course is to provide an opportunity to integrate lecture and pre-clinical laboratory skills into the private practice setting. The students will actively participate in all aspects of dental assisting in assigned private dental offices. Students will obtain experience in expanded functions as outlined by the New Jersey State Dental Auxiliary Practice Act and are required to make radiographic exposures as outlined by the Department of Environmental Protection and Energy, Bureau of X-Ray Compliance. Students must receive a grade of 'C' or higher in all dental courses. Prerequisites: DENT 110 Co-requisites: DENT 205, DENT 125, DENT 120 | Clinical hours: 330 hours

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: Inclusion in Early Childhood Education (3.00 cr.)

This course is an overview of history, philosophy, legislation, and services for young children (0-5) at risk for or with disabilities, including impact and intervention across developmental domains. The focus of the course is student centered with an emphasis on inclusion and meeting all students where they are developmentally. Prerequisite: EN 060, PY 115, ED 102

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 variety 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).

EDUCATION – ELEMENTARY/SECONDARY**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

ENGINEERING**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) Prerequisite: MA 120 or MA 121

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 Prerequisite: MA-120 or MA-121 either prior to, or in the same semester as, 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 CADD 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. All lecture topics are supported by a lab component. Prerequisite: MA 105

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. Prerequisite: IT 111 or permission of instructor

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 Automaton (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 (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 provides the foundation needed to be effective in a wide range of application environments. Student must successfully complete MA-130 Calculus I or have permission of instructor to register for this course.

ENGINEERING TECHNOLOGY EC**ETEC 102: Fundamentals of Engineering Technology 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. Lecture topics supported by lab components. Prerequisites: ENG 104 and MAT 050

ETEC 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. Prerequisites: ENG 104 and MAT 050

ETEC 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. Lecture topics are supported by a lab component. Prerequisites: ENR 110

ETEC 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. Lecture topics supported by a lab component. Prerequisites: ENG 104 and MAT 050

ETEC 205: Digital Electronics (3.00 cr.)

Provides students with information and experience on integrated circuits which are used in analyzing and storing data. Lecture topics supported by lab components. Prerequisites: ENG 104 and MAT 060

ETEC 211: Advanced Engineering Technology Design (3.00 cr.)

Offers intermediate CAD drawing working in three dimensional spaces in order to create a 3D solid model. The student will use paper space in order to create multi views with attributes. Lecture topics supported by a lab component. Prerequisites: ENR 110

ETEC 227: Circuits II (3.00 cr.)

This second course in electrical circuits expands on Circuit Theory introduced in ETEC 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. Prerequisites: ETEC 107

ETEC 241: Robotics and Motion Control (3.00 cr.)

A study of the basics of industrial automation systems especially flexible manufacturing. Students gain and understanding of both industrial and commercial robotics technology including sensors and sensors. Lecture topics supported by lab components. Prerequisites: ETEC 211

ETEC 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. Lecture topics are supported by lab components. Prerequisites: MAT 108 or permission of instructor

ENGLISH**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).

ENGL 100: Readings in Literature (4.00 cr.)

Readings in Literature increases students' comprehension and enjoyment of reading through literature, fiction, and non-fiction, while emphasizing close reading of passages to develop students' critical thinking, critical reading, and critical writing skills. Relying on intensive instructor guidance, students study the major forms of literature, fiction, poetry, drama, and essays to identify the connections between literature and the human experience and to learn to identify major themes, inferences, major and minor details. Prerequisite: EN 060

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).

ENGL 101E: Enhanced English Composition I (4.00 cr.)

This course focuses on the study of rhetoric and provides students with extensive guided experience in writing essays to develop and enhance reading and writing skills through frequent and varied writing assignments. The course emphasizes critical reading and thinking, the writing process, organization of material, syntax, rhetorical devices, and the concepts of audience, purpose, and form. Students develop information literacy through responsible research skills and the basic techniques of MLA documentation. Prerequisites: ENGL 050 or ENGL 060 or Accuplacer Placement

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 upon 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.

HISTORY**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 issues that have 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(3/285)

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 aspect 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 106: Healthcare Provider Emergency Response with BLS Certification (0.00 cr.)

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

HS 107: Cross Sectional Anatomy (2.00 cr.)

This course is designed to introduce the student to three-dimensional human anatomy as visualized in the coronal, transverse and sagittal planes of NM, CT, and MRI images. Normal anatomy of the brain, thorax, abdomen, and pelvis will be reviewed. 2 lecture hours
Prerequisite: Grade of "C" or higher in BIO 105 Pre or Co-requisite: BIO 106

HS-115: Basic Nutrition (3.00 cr.)

Knowledge of nutrition principles and the ability to apply that knowledge are required in all aspects of health career. This course will outline the relationship of diet, lifestyle, weight management, and the prevention of disease. An overview of the digestion, absorption, and metabolism of protein, carbohydrates, fats, vitamins, minerals, and water will be provided. Nutritional principles such as dietary fads, cultural patterns, and other consumer concerns will be addressed. Principles of Nutrition will allow students to develop skills and information literacy through critical-thinking activities, teamwork, collaboration, and a research-based approach to learning.

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

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

INTERNSHIP**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.

INSURANCE & RISK**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 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: homeowners' property coverage; homeowners' liability coverage; other personal lines of coverage; commercial property, general liability and other commercial lines of coverage.

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

ITALIAN**LI-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 is 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 (63-68) 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-Requirement: 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: Pre Calculus 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 Student must have successfully completed MA-120 or MA-121 in order to register for this course.

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'Hospital'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 Enginrs (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. Pre-requisite: MAT 050 or MAT 051

NURS 105: Introduction to Nursing Informatics (1.00 cr.)

This course will introduce the student to important informatics tools that are currently being utilized in healthcare to ensure safe and quality care. Electronic Health Records (EHR), telehealth, personal reference management software, Evidence-Based Practice (EBP), and HIPAA will be emphasized. Prerequisite: RDG 099 or ENG 104 and NURS 110 or Registered Nurse license or Licensed Practical Nurse license.

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: BIO 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. Prerequisites: RDG 099 or ENG 104; Co-requisites and Prerequisites: BIO 105, PSY 101, ENG 101, ENG 101E; Co-requisite: NURS 111 Clinical Hours: 90 | Program Fee: \$1,500

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. Prerequisites: RDG 099 or ENG 104; Co-requisites and Prerequisites: BIO 105, PSY 101, ENG 101, ENG 101E; Co-requisite: NURS 110 | Program Fee: G

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 BIO 105, PSY 101, ENG 101/ENG 101E

NURS 210: Nursing Global Issues and 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, BIO 106, ENG 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 health care settings. Co-requisite and Prerequisite: BIO 215; Co-requisite: NURS 231 – Nursing III Lab Clinical Hours: 180 | Program Fee: \$1,500

NURS 231: Nursing III Lab (1.00 cr.)

This course focuses on the performance of complex advanced nursing skills necessary for student progression. The expansion of knowledge and behaviors is integrated. Laboratory exercises incorporate real world situational experience with healthcare professionals on the College campus. Co-requisite and Prerequisite: BIO 215; Co-requisite: NURS 230 – Nursing III | Program Fee: G

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. Co-requisite and Prerequisite: NURS 230, NURS 231 Clinical Hours: 90 | Program Fee: \$1,500

NURS 245: Transition to Practice (4.00 cr.)

This course focuses on integration of knowledge, continued development of clinical judgment and life-long learning. It provides students with an opportunity for a concentrated capstone clinical experience in a selected area with an individual Registered Nurse Preceptor. Learning through experience is emphasized while preparing students for transition to Registered Nurse practice. Prerequisites: NURS 240 Clinical Hours: 90 | Program Fee: Cost of HESI Exit exam and curriculum review course

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 perso. 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 nonscience 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 provides 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 105: Practical Nursing Reflections (1.00 cr.)**

This course is designed for the practical nursing student who has experienced a semester of absence from the program. The course reacclimates the student to program expectations, standards of safe care, and clinical skills to facilitate success in future Practical Nursing course. All activities take place on the college campus.

PN 110: Practical Nursing I (4.00 cr.)

This course provides an introduction to the role of the practical nurse and the integration into the healthcare team. Hands-on practice occurs in a variety of clinical settings off campus with diverse patient populations. Prerequisites or Corequisites: BI 106, EN 101; Corequisites: PN 111 Practical Nursing Lab | Clinical hours: 45 hours

PN 111: Practical Nursing Lab (1.00 cr.)

This course provides the practical nursing student the opportunity to practice and demonstrate skills in a simulated setting associated with theory and clinical activities. All experiences take place on the college campus. Prerequisite or Corequisites: BI 106, EN 101; Corequisite: PN 110 Practical Nursing I

PN 120: Practical Nursing II (3.00 cr.)

This course provides an overview of the role of the practical nurse as part of the healthcare team in childbearing and child rearing experiences. Hands-on practice occurs in a variety of clinical settings off campus with diverse patient populations. Prerequisites: PN 110, PN 111; Corequisites: BI 106, EN 101 | Clinical hours: 45 hours

PN 130: Practical Nursing III (3.00 cr.)

This course provides an overview of the role of the practical nurse in the care of diverse patients requiring emotional, social, and behavioral support. Hands-on practice occurs in a variety of clinical settings within the community. Prerequisites: PN 120; Prerequisites and Corequisites: BI 107, PY 101 | Clinical hours: 45 hours

PN 140: Practical Nursing IV (5.00 cr.)

This course prepares the practical nursing student to be an integral part of the healthcare team in delivering safe competent care to a diverse population. Hands-on practice occurs in a variety of clinical settings off campus. Prerequisites: PN 130 Practical Nursing III; Prerequisites and Corequisites: BI 107, PY 101 | Clinical hours: 45 hours

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 they affect behavior will be examined and the classification of medications, legal and illegal. Legal and ethical principles regarding clinical drug trials and the FDA approval process and legalities of drug trafficking will be covered. Emphasis is on acute and chronic effects; neurobehavioral dysfunctions and other multi-sided aspects of addiction. A special emphasis will be placed on culture, ethnic and age related considerations. This course will provide an understanding of the role of pharmacology in the counseling field. Prerequisite: PY-202

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.)

An examination of the nature, causes, classification, diagnosis, and treatment of abnormal behavior. 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.)

This course explores laws that protect the rights of individuals with disabilities from birth through adulthood. Furthermore, a variety of disabilities are examined in the following areas: definition, prevalence, causes, characteristics, identification, education practices, parent and family perspectives, and trends and issues. 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. Student is 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. | Student must have completed or also Prerequisite: SO-201 when registering for this course. (Required, Previous or concurrent).

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-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

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.

PY-315: Research Methods in Psychology (3.00 cr.)

This course addresses research design and methodologies for data collection in psychological research. Observation, correlational, and experimental techniques are studied. Ethical conduct in research and responsible interpretation of research results are also addressed. Prerequisite PY 306

PUBLIC ADMINISTRATION**PA-101: Public Administration (3.00 cr.)**

An examination of the relationships between government and business, and contemporary theories of leadership practices and principles. Prerequisite: EN-060

PA-200: Public Budget & Grant Writing (3.00 cr.)

Designed for administrative and managerial personnel, this course provides an introduction to the fundamentals of various types of budgeting and grant writing techniques. Prerequisite: PA-101

RADIOGRAPHY**RT 100 Radiologic Theory/Clinical Remediation**

2 lecture hours, 2 Credits

Prerequisites: Completion of at least one semester of radiography education or permission of the Radiography Program Director.

Provides individualized classroom and laboratory instruction. The course is available to students who have been unable to successfully complete a Radiography Program course. This course aims to address areas of weakness identified through assessment while fostering academic growth and ensuring readiness for future coursework.

RT 101 Introduction to Radiologic Science

3 lecture hours, 3 Credits

Corequisites: RT 104, RT 103, RT 102, BI 106

Students are oriented to the organization of hospitals and are introduced to the role of the radiographer within the organizational structure. The course includes an introduction to medical terminology, the history of Radiography, 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.

RT 102 Radiographic Procedures I
2 Lecture Hours, 3 Lab Hours, 3 Credits
Corequisites: RT 101, RT 103, RT 104, BI 106

Using lectures and audiovisuals, basic radiographic positioning, anatomy, and terminology used for procedures of the chest, abdomen, and upper extremities are presented. Laboratory sessions are used for demonstration and student participation in the simulation of the procedures.

RT 103 Clinical Practicum and Image Evaluation I
90 Clinical Hours, 2 Credits
Corequisites: RT 101, RT 102, RT 104, BI 106

Students are expected to recall and identify information from current corequisite courses during their assignment to the Radiology Department at a clinical education site.

RT 104 Radiographic Exposure I
2 Lecture Hours, 2 Credits
Corequisites: RT 101, RT 102, RT 103, BI 106

This course provides a foundational understanding of radiation concepts and introduces the student radiographer to the principles of the x-ray tube, and x-ray production. Emphasis will be placed on the primary factors needed to produce a radiograph and their effect on image quality. Students will explore the photographic and geometric properties of radiographic images. Participants will develop the knowledge and skills necessary to comprehend the fundamentals of radiologic imaging and apply them in clinical contexts.

RT 106 Radiographic Exposure II
2 Lecture Hours, 2 Credits
Prerequisites: RT 101, RT 102, RT 103, RT 104, BI 106
Corequisites: RT 107, RT 110, RT 121, BI 107

This course provides a comprehensive understanding of X-ray equipment, including C-arm, mobile radiography, and fluoroscopy systems, as well as Automatic Exposure Control. Students will explore the principles involved in beam filtration, scatter control, and the relationship to the photographic and geometric properties of the image. Through theoretical instruction, students will gain proficiency in optimizing image quality.

RT 107 Radiographic Procedures II
2 Lecture Hours, 3 Lab Hours, 3 Credits
Prerequisites: RT 101, RT 102, RT 103, RT 104, BI 106
Corequisites: RT 106, RT 110, RT 121, BI 107

Basic radiographic positioning, anatomy, and terminology used for procedures of the lower extremities, vertebral column, bony thorax, Gastrointestinal systems, and urinary and biliary systems, are presented. This course also focuses on contrast media and its use in radiography of the body systems.

RT 110 Clinical Practicum & Image Evaluation II
90 Clinical Hours, 2 Credits
Prerequisites: RT 101, RT 102, RT 103, RT 104, BI 106
Corequisites: RT 106, RT 107, RT 121, BI 107

Students should comprehend the relevance of the information from corequisite and prerequisite courses as they apply it practically within the Radiology Department of a clinical education site.

RT 111 Clinical Practicum & Image Evaluation III
90 Clinical Hours, 2 Credits
Prerequisites: RT 106, RT 107, RT 110, RT 121, BI 107

Students are assigned to the Radiology Department of a clinical education site and tasked with applying the knowledge gained from prerequisite courses in practical scenarios.

RT 121 Radiation Biology and Protection
3 Lecture Hours, 3 Credits
Prerequisites: RT 101, RT 102, RT 103, RT 104, BI 106
Corequisites: RT 106, RT 107, RT 110, BI 107

This course is designed to provide students with a fundamental understanding of radiation safety in various settings. Throughout the course, students will learn about the principles of radiation, its effect on the human body, and the importance of radiation protection measures. You will gain knowledge about different types of radiation sources, such as X-rays and radioactive materials, and how they are used in medical imaging, industrial applications, and other fields. Additionally, students will explore concepts related to dose measurement, including the units used to quantify radiation exposure and the factors that affect dose levels. You will learn the importance of implementing safety protocols and following regulations to protect both patients and healthcare professionals from unnecessary radiation exposure. Students will learn about the proper use of protective equipment, radiation monitoring devices, and the implementation of ALARA (As Low as Reasonably Achievable) principles in the healthcare environment.

RT 200 Clinical Practicum & Image Evaluation IV
90 Clinical Hours, 2 Credits
Prerequisites: RT 111

Students are required to dissect and examine the information from prerequisite courses within the context of real-world applications during their placement in the Radiology Department of a clinical education site.

RT 201 Radiographic Procedures III
2 Lecture Hours, 3 Lab Hours, 3 Credits
Prerequisites: RT 200; Corequisites: RT 202, RT 220

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 audiovisuals.

RT 202 Clinical Practicum & Image Evaluation V
135 Clinical Hours, 3 Credits
Prerequisites: RT 200; Corequisites: RT 201, RT 220

Students are expected to assess the effectiveness and appropriateness of utilizing the knowledge from prerequisite and corequisite courses in practical situations while assigned to the Radiology Department of a clinical education site. Students will rotate through general, fluoroscopy, emergency departments, operating rooms, and mobile radiography. Special attention will be focused on obtaining competencies in exams of the GI tract, skull, and facial bone radiography.

RT 205 Radiographic Procedures IV
2 Lecture Hours, 3 Lab Hours, 3 Credits
Prerequisites: RT 201, RT 202, RT 220
Corequisites: RT 206, RT 221

The course will cover imaging principles and anatomy related to less common fluoroscopy procedures. Guest speakers will introduce students to computerized tomography, nuclear medicine, ultrasound, radiation therapy, magnetic resonance imaging, and other advanced modalities. Additionally, the course will include national board exam preparatory activities and mock exams.

RT 206 Clinical Practicum & Image Evaluation VI
135 Clinical Hours, 3 Credits
Prerequisites: RT 201, RT 202, RT 220
Corequisites: RT 205, RT 221

Students are challenged to innovate and produce new solutions by synthesizing the information from prerequisite and corequisite courses within the practical clinical setting of the Radiology Department at a clinical education site. Students must perform ten terminal competency examinations during the last three months of the semester.

RT 220 Equipment Operation and Maintenance I**2 Lecture Hours, 2 Credits****Prerequisites:** RT 200; **Corequisites:** RT 201, RT 202

This course delves into the fundamentals of electricity and electromagnetism as they relate to the operation of X-ray equipment. Students will learn to identify and troubleshoot common malfunctions in X-ray systems, with a focus on extending the lifespan of the tube through proper maintenance practices. Quality assurance principles will be emphasized, covering techniques for ensuring consistent image quality and equipment performance. Through a combination of theoretical instruction and hands-on demonstrations, students will acquire the skills necessary to diagnose equipment issues, perform QA tasks, and implement strategies to optimize the efficiency and longevity of radiologic equipment in the clinical setting.

RT 221 Equipment Operation and Maintenance II**2 Lecture Hours, 2 Credits****Prerequisites:** RT 201, RT 202, RT 220**Corequisites:** RT 205, RT 206

This course offers an in-depth exploration of X-ray imaging processing techniques, digital imaging technologies, Picture Archiving and Communication Systems (PACS), and informatics in medical imaging. Students will learn advanced methods for enhancing and analyzing radiographic images through digital processing algorithms and software applications. Through theoretical study and practical applications, students will gain the knowledge and skills necessary to utilize state-of-the-art technologies for improved diagnostic accuracy and optimal patient radiation protection in radiology departments and healthcare facilities.

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 Respirator (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 Pharmacology (2.00 cr.)

UMDNJ - Respiratory Therapy Professional Course. Will be transferred in from UMDNJ to complete A.A.S. Respiratory Therapy joint de gree. 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 completed 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 3360.

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 2270.

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 de gree - RSTS 2280.

RS-229: Cincial 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 3399.

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 Gerontology (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, Gbl 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-201: Theater History (gen ed) (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



300-level Courses

The 3+1 option allows students to attend RCSJ for three years at the RCSJ rate and complete their senior year at Rowan University, paying the Rowan University rate. This allows students to save on tuition and fees while earning their bachelor's degree. This program follows Rowan University's course curriculum with 300-level courses taught by RCSJ advanced degree faculty. Students will graduate with a Rowan University bachelor's degree. Future internships and internship opportunities are being developed to enhance work experience and career potential.

Eligible Programs

- Business Administration: Global Business/Leadership
- Criminal Justice
- Criminal Justice: Emergency Management Option
- Cybersecurity
- Nursing
- Psychology
- Radio, Television, Film

Below course work for 3+1 students only.

BUSINESS**BU-300: Appl. Organizational Behavior (3.00 cr.)**

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.

BU-304: Issues in Business (3.00 cr.)

This upper-division course focuses on the current issues and trends in business as found in the business media. The course is designed to allow students to explore areas of personal interest through the collection of research and the presentation of such material in written and spoken formats.

BU-308: Applied Human Resource Mgmt (3.00 cr.)

This course will provide an overview of human resource management (HRM). HRM is a fundamental component of the competitiveness, effectiveness, and sustainability of any organization, as it influences who is hired, how they are trained, evaluated, retained and compensated. Throughout the course we will focus on the role of managers and how they can develop and implement effective and efficient human resource practices that support the strategic objectives of their firms. We will focus on the everyday human resource decisions made by all managers (e.g., selection, evaluation, compensation, termination).

BU-310: Business Logistics (3.00 cr.)

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.

RADIO, TV AND FILM**CO-310: Television Production I (3.00 cr.)**

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 (3.00 cr.)

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 (3.00 cr.)

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 (3.00 cr.)

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.

COMPUTER SCIENCE

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.

CRIMINAL JUSTICE

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 (3.00 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 EN-102 English Composition II 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 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.

NURSING

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.

NU-305: Nursing Informatics (3.00 cr.)

This course reviews the information needs and information systems related to nursing practice. Students will experience the manner in which informatics supports all areas of practice, including education, clinical practice, administration and research. Prerequisites: Graduation from an accredited school of nursing. Registered Nurse license in good standing.

NU-308: Topics in Healthcare Ethics (3.00 cr.)

This course examines moral dilemmas created or intensified by recent advances in medical technology and studies ways of analyzing those dilemmas. Discussion topics include: euthanasia and the right to die, abortion, behavior modification, allocation of scarce medical resources, in vitro fertilization, genetic screening and engineering and human experimentation. These moral dilemmas will be related to nursing. Prerequisites: Successful completion of a nursing program from an accredited school of nursing. Current registered nurse license in good standing.

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.

Regional Colleges/Universities

RCSJ has partnered with a number of four-year universities to make earning a bachelor's degree seamless while offering partnership perks that include cost and time-saving incentives.

- Rowan University (*RCSJ Flagship Partner*)
 - Wilmington University
 - Neumann University
 - Stockton University
 - Temple University
 - Thomas Jefferson
 - University of Delaware
 - Peirce College
 - Rutgers University - Camden
 - Rutgers University - New Brunswick
-

Hispanic Serving Institutes (HSI)

Transfer agreements have been created with two Hispanic Serving Institutions (HSI) to provide opportunities for seamless transitions to four-year institutions.

- Rutgers-Newark
 - Saint Peter's University
-

Historically Black Colleges & Universities (HBCU)

Transfer agreements have been created with two Historically Black Colleges and Universities (HBCU) to provide opportunities for seamless transitions to four-year.

- Delaware State University
- Lincoln University

Cumberland Campus Map

3322 College Drive, Vineland, NJ 08360

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| <p>1. Luciano Center (CEC)
• <i>Business Studies Division</i></p> <p>2. Arpino Education and Humanities Center (ACAD)
• <i>Education & Humanities Division</i>
• <i>ESL</i>
• <i>Computer Labs 1-4</i>
• <i>Testing and Tutoring Labs</i></p> <p>3. Guaracini Center (FPA)
• <i>Adult Education</i>
• <i>Health Professions</i>
• <i>Luciano Theater</i></p> <p>4. Brown University Center (UNIV)
• <i>Behavioral Science</i>
• <i>Got Food? (Food Pantry)</i>
• <i>Wellness Center</i></p> <p>5. Wheaton Building (WHT)
• <i>Nursing & Health Professions Division</i>
• <i>Navone Healthcare</i></p> | <p>6. Mechatronics Innovation Learning Lab (MILL)</p> <p>7. Alampi Science Building (SCI)
• <i>STEM Division</i></p> <p>8. Library (LIB)</p> <p>9. Network Operations Center</p> <p>10. Administration Building (ADM)</p> <p>11. Cunningham Student Services Center (STDT)
• <i>Admissions/Registration</i>
• <i>Bookstore</i>
• <i>Bursar/Financial Aid</i>
• <i>Gymnasium</i>
• <i>One Stop</i>
• <i>Safety & Security</i>
• <i>Student Support Services</i></p> | <p>12. Central Plant - Shipping and Receiving</p> <p>13. Proposed - RowanSOM</p> <p>16. Center for Workforce & Economic Development</p> <p>Off-Campus Site</p> <p>17. Arts & Innovation Center (MAIC)
321 N. High St., Millville, NJ</p> |
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GLOUCESTER CAMPUS

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CUMBERLAND CAMPUS

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Excellence*



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