

Addendum

After receiving the printed Gloucester Campus Academic Catalog, it was discovered that critical revisions were overlooked during the editing phase necessitating the creation of this Addendum to highlight and correct the errors. The revisions outlined below explain the revision and page number it is found on. The corresponding page has also been updated in the PDF document found on the website. This Addendum has also been printed and submitted to all known Academic Catalog recipients for inclusion. This Addendum was created and printed in November 2024.

Page 5: College Overview

There was a misprint of the Rowan College of South Jersey Mission. The correct mission is as follows:

Rowan College of South Jersey is a student success-oriented, accessible and affordable learning center dedicated to enhancing its community's economic development and quality of life by striving for academic excellence in offering innovative programs and services to a diverse community of learners in a safe and caring environment.

Page 7: Accreditation

ZIP code revision for Practical Nursing NJ Board of Nursing as 07101

Page 8: Financial Services Information

HESI Exit Exam, delete (NUR 220)

Page 88 & 89: Nursing LPN-RN and Nursing, A.A.S.

Special Admission Requirements

- Students must complete the Nursing program in three (3) years from the start of the first Nursing course.
- Students who do not complete the program within three (3) years must wait three (3) years before reapplying to the Nursing program.
- A minimum grade of "C+" is required in all Nursing and Sciences courses.

Page 94: Practical Nursing, AC

Remove current Program Learning Outcomes and replace with: End-of-Program Student Learning Outcomes

- Graduates of the practical nursing program will report they can deliver competent care to a diverse population at a rate of 80% on the graduate survey.
- Graduates of the practical nursing program will report they communicate effectively with the healthcare team at a rate of 80% on the graduate survey.
- Graduates of the practical nursing program will report they are competent in documentation in the health care record at a rate of 80% on the graduate survey.

Course Descriptions

Page 153, NURS 110, Program Fee: \$1,750

Page 154, NURS 230, Program Fee: \$1,750

Page 154, NURS 240, Program Fee: \$1,750

Page 157, PRAC 110, Program Fee: \$1,750 (new page 158)

Page 158, PRAC 111, Program Fee: G

Page 158, PRAC 130, Program Fee: \$1,750

Page 158, PRAC 140, Exit Exam fee & Course fee K curriculum review fee

Page 170, update course codes to NURS

Missing Course Descriptions

NURS 120 Nursing II

6 lecture hours, 135 clinical hours, 9 credits

Prerequisite: NURS 110, 111

Corequisite and Prerequisite: BIO 106, ENG 102

Corequisite NURS 121

Program fee: \$1,750

This course builds on previously acquired knowledge and learned behaviors of health, wellness promotion and disease prevention. Students will implement evidence-based practice to provide safe and effective care to adults and childbearing and childrearing families. Concepts from pharmacology, nutrition, pathophysiology, and safety across the lifespan are utilized to provide care in a variety of healthcare settings.

NURS 121 Nursing II Lab

2.5 lab hours, 1 credit

Prerequisite: NURS 110, 111

Corequisite and Prerequisite: BIO 106, ENG 102

Corequisite NURS 121

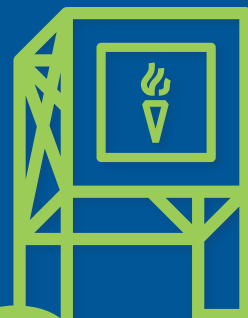
Course fee: G

This course builds on acquired knowledge and learned behaviors and requires the demonstration of clinical nursing skills necessary for student progression. Laboratory exercises incorporate real world situational experience with healthcare professionals on the College campus.

NURS 126 Nursing Reflections

Prerequisite: Completion of at least one semester of nursing education or permission of the Dean of Nursing and Health Professions

This course is required for the student nurse who has experienced a semester of absence from the RCSJ nursing curriculum. Emphasis is placed on refreshing knowledge and skills to facilitate success in the classroom and clinical components of future nursing (NURS) courses. All activities will take place on the College campus.



Gloucester Campus

Academic Catalog

2024 2025





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.

**Rowan
CHOICE**

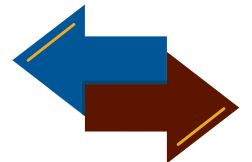
2+2 PROGRAM

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

1/21	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

TABLE OF CONTENTS

College Overview	5
Accreditation	7
Financial Services Information.....	8
Online Education.....	12
Programs of Study	13
BEHAVIORAL SCIENCES AND LAW & SOCIAL JUSTICE DIVISION	15
Alcohol and Drug Counseling, CERT	15
Arts and Sciences: Pre-Law Option, A.A.	16
Criminal Justice, A.S.	17
Criminal Justice – Emergency Management, A.S.	19
Disaster Preparedness & Emergency Management.....	20
Criminal Justice – Emergency Management, CERT	21
Law Enforcement, A.A.S.	22
Law and Paralegal Studies, A.A.S.	23
Paralegal, CERT	24
Psychology, A.A.	25
Social Service, A.S.	27
BUSINESS STUDIES DIVISION	29
Accounting, A.A.S.	29
Accounting, COA	30
Business Administration, A.S.	31
Business Software Tools, COA	34
Computer Graphic Arts: Game/Interactive Design, A.A.S.	35
Computer Graphic Arts: Game/Interactive Design, COA	36
Computer Graphic Arts: Print Design Option, A.A.S.	37
Computer Graphic Arts: Print Design, COA	38
Computer Information Systems, A.S.	39
Digital Marketing, A.A.S.	41
Digital Marketing, COA	42
Entrepreneurship, A.A.S.	43
Entrepreneurship, COA	44
Human Resource Management, A.S.	45
Management, COA	46
Technology Help Desk Support, COA	47
Website Development, COA	48
CAREER AND TECHNICAL EDUCATION DIVISION	50
Automotive Technology, A.A.S.	50
Process Technology, A.A.S.	51
Technical Studies, A.A.S.	52
Wind Power and Turbine Technology, CERT	53
COMMUNICATION AND CREATIVE & PERFORMING ARTS DIVISION	55
Arts and Sciences: Art Option, A.A.	55
Arts and Sciences: Communication Option, A.A.	56
Arts and Sciences: Digital Photography Option, A.A.	58
Digital Photography, COA	59
Arts and Sciences: English Option, A.A.	60
Arts and Sciences: Music Option, A.A.	61
Arts and Sciences: Radio, Television and Film Option, A.A.	62
EDUCATION AND HUMANITIES DIVISION	65
Arts and Sciences, A.A.	65
Arts and Sciences: History Option, A.A.	66
Arts and Sciences: Philosophy Option, A.A.	67
Education, A.S.	68
Educational Sign Language Interpreter, COA.....	70
Health, Physical Education and Recreation (HPER), A.S.	71
Neurodiversity and Inclusion, COA	72
NURSING AND HEALTH PROFESSIONS DIVISION	74
Certified Clinical Medical Assistant (CCMA), COA.....	74
Diagnostic Medical Sonography (DMS), A.A.S.	75
Exercise Science, A.S.	77
Health Science, A.A.S.	79
Health Science – Diagnostic Medical Sonography, A.A.S.	80
Health Science – Nuclear Medicine Technology, A.A.S.	81
Health Science – Nursing, A.A.S.	82
Health Science – Physical Therapist Assistant, A.A.S.	83
Health Science – Respiratory Therapy, A.A.S.	84
Nuclear Medicine Technology (NMT), A.A.S.	85
Nursing LPN-RN, A.A.S.	87
Nursing (NURS), A.A.S.	89
Nutrition, A.S.	91
Physical Therapist Assistant, A.A.S.	92
Practical Nursing, AC	94
SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) DIVISION.....	96
Arts and Sciences, A.S.	96
Arts and Sciences: Physics Option, A.S.	97
Biology, A.S.	98
Biology: Bioscience Technologies Option, A.S.	99
Chemistry, A.S.	100
Chemistry: Pre-Pharm.D. Option, A.S.	101
Computer Science, A.S.	102
Computer Science, CERT	104
Electrical Engineering Technology, A.A.S.	105
Engineering Science, A.S.	106
Engineering Science, COAs	107
Engineering Technologies Construction Supervision, COA	108
Environmental Science, A.S.	109
Equine Science, A.S.	110
Equine Science, COA	111
Equine Science: Pre-Veterinary Medicine Option, A.S.	112
Marine Science, A.S.	113
Mathematics, A.S.	114
Mechanical Engineering Technology, A.A.S.	115
Surveying Engineering Technologies, A.A.S.	116
Surveying Engineering Technologies, COAs	117
Veterinary Technology, A.A.S.	118
Course Descriptions.....	122
300-level Courses.....	166

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 County Commissioners. The College is accredited by the Middle States Commission on Higher Education.

RCSJ 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.

RCSJ 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 student success-oriented, accessible and affordable learning center dedicated to enhancing its community's economic development and quality of life by striving for academic excellence in offering innovative programs and services to a diverse community of learners in a safe and caring environment.

Gloucester County

Board of County Commissioners

Frank J. DiMarco, *Director*
 Jim Jefferson, *Deputy Director*
 Nicholas DeSilvio
 Denice DiCarlo
 Joann Gattinelli, *Education Liaison*
 Christopher Konawel, Jr.
 Matthew Weng

Cumberland County

Board of County Commissioners

Joseph V. Sileo, *Director, Co-Education Liaison*
 Antonio Romero, *Deputy Director*
 Douglas Albrecht
 Victoria Groetsch-Lods, *Co-Education Liaison*
 Art Marchand
 Jim Sauro
 Sandra Taylor

Rowan College of South Jersey

Board of Trustees

Gene J. Concordia, *Chair*
 Ruby Johnson, *Vice Chair*
 Douglas J. Wills, Esq., *Treasurer*
 Len Daws, *Secretary*
 Lita M. Abele
 Jennica L. Bileci
 Robert L. Bumpus
 Danielle Carroll
 Reverend Dr. James A. Dunkins
 Dr. Edward Geletka
 Greg Loperголо
 Dr. Warren S. Wallace
 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 Gloucester 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.

— Fall 2018

— June 2020

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 Associate degree programs Business Administration, Accounting, Digital Marketing, and Human Resource Management, as well as the Certificate of Achievement programs Accounting, Business Software Tools, Digital Marketing, and Management are accredited by the Accreditation Council for Business Schools and Programs (ACBSP), 11520 West 119th Street, Overland Park, KS 66213, phone: (913) 339-9356, acbsp.org.

Affirmative Action Statement:

The Board of Trustees is committed to providing a work and academic environment that maintains and promotes affirmative action and equal opportunity for all employees and students without discrimination on the basis of certain enumerated and protected categories. These categories are race, creed (religion), color, national origin, nationality, ancestry, age, sex (including pregnancy and sexual harassment), marital status, domestic partnership or civil union status, affectional or sexual orientation, gender identity or expression, atypical hereditary cellular or blood trait, genetic information, liability for military service, or mental or physical disability, including AIDS and HIV-related illnesses. For questions concerning discrimination, contact Almarie J. Jones-Gloucester Campus, 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, ADAAA/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 α
PROGRAM FEES	
For students enrolled in Nursing and Health Professions Program	\$1,750 Fee is applied per semester
For students enrolled in Automotive Technology and Veterinary Technology Programs	\$1,250 Fee is applied beginning the second academic term
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 – Computer Laboratory	25.00
B. Materials Fee – Art (some courses), Engineering, Drafting, Computer Graphic Arts	40.00 ^x
C. Materials Fee – Automotive Technology, Science	95.00
D. Materials Fee - BIO215, BIO221	165.00
F. First Day/Digital Books	43.75-129.00 ^α 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
J. Materials Fee – DMS 106, 210, 221	50.00 ^x
K. Curriculum Review Fee	425.00
O. Online Technology Fee	75.00
Q. QuickBooks Certification Fee - BUS 207	150.00 ^x
W. Materials Fee – BIO 212 (Wetlands Institute)	250.00 ^x
Y. Honors Research Lab Fee - SCI 201	200.00 ^x

ADDITIONAL FEES	
Graduation Petition Fee	65.00
Payment Plan Fee	40.00
Transcripts (processing options)	\$5 plus α Per standard (3-5 business days) \$10 plus α Per expedited (next business day) \$25 (same day)
Replacement Diploma Fee	35.00
LEXIS-NEXIS Annual Fee ^o	α
CCMA, Phlebotomy, EKG and Medical Assistant Fees ^o	α
Selective Admissions Entrance Exam	α plus 30.00
Selective Admissions Late Registration/Reschedule Fee	15.00
Other Standardized Test Fees	α plus 30.00
Accuplacer Challenge Fee	10.00 per section
Stop &/or Reissue Check Fee	α plus 30.00
Returned Check Fee	α plus 30.00
Reissue NMT Badge	α plus 30.00
ID card Replacement Fee	10.00
Liability Insurance (Nursing and Health Professions Students only)	α
Portfolio Assessment for Prior Learning	125.00
Nurse Entrance Test (NET) Fee ^{oα+}	\$
Nursing and PTA HESI Admission Assessment Exam Fee ^{oα}	\$ per test
Nursing HESI Exit Exam Fee ^{oα}	\$ per test
CLEP/DSST Fees Test Administration Fee Examination Fee	25.00 per exam \$
Library Membership Fee - Non-student County Residents**	10.00 per annum

^o Fee subject to change

α 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.

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

(Reference Board Policy 6011)

PAYMENT POLICY

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

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

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

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

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

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

(Reference Board policy and Administrative procedure 6022)

PAYMENT OPTIONS

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

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

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

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

Course Abbreviation Key

● CLASS DAYS:

The key to class days is:

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

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

● COURSE SECTION NUMBER CODES:

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

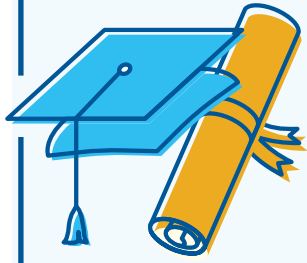
● BUILDING CODES – Gloucester Campus:

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

Satellite Locations:

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

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



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 856-415-2298, email us at eLearning@rcsj.edu or visit [RCSJ.edu/eLearning](https://rcsj.edu/eLearning) and click on "Is eLearning Right for You?"

Fully online certificates at RCSJ Gloucester:

- Accounting
- Business Software Tools (7 week blocks)
- Digital Marketing (7 week blocks)
- Entrepreneurship
- Management (7 week blocks)
- Technology Help Desk Support (7 week blocks)
- Website Development

Fully online programs at RCSJ 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 Gloucester only:

- A.A. Arts & Sciences
- A.A. Arts & Sciences: Communication Option
- A.A. Arts & Sciences: History Option
- A.A. Arts & Sciences: Philosophy Option
- A.A. Arts & Sciences: Sociology Option

Technical StudiesCOMPUTERS 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/gc/TechSupport](https://rcsj.edu/gc/TechSupport) to see what new services and software are available.

Programs of Study

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

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

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

ASSOCIATE IN ARTS DEGREE (A.A.)

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

ASSOCIATE IN SCIENCE DEGREE (A.S.)

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

ASSOCIATE IN APPLIED SCIENCE (A.A.S.)

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

Certificates

CERTIFICATE PROGRAMS (CERT)

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

CERTIFICATE OF ACHIEVEMENT PROGRAMS (COA)

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

Degree Requirements

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

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

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

COURSE CATEGORY

	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 120 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.



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

Program Learning Outcomes

Students who complete the program will be able to:

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

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

Alcohol and Drug Counseling, CERT

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> SOC 101 Principles of Sociology	3
	<hr/> 9

Spring Semester

<input type="checkbox"/> PSY 200 Understanding Addictive Behavior	3
<input type="checkbox"/> SOC 235 Social Psychological Counseling	3
<input type="checkbox"/> SOC 240 Human Behavior in the Social Environment I	3
	<hr/> 9

SECOND YEAR – Semester

<input type="checkbox"/> PSY 230 Abnormal Psychology	3
<input type="checkbox"/> PSY 206 Psychopharmacology	3
<input type="checkbox"/> SOC 241 Human Behavior in the Social Environment II	3
<input type="checkbox"/> SOC 222 Alcohol & Drug Field Work	3
	<hr/> 12

TOTAL MINIMUM CREDITS: 30

Program Notes

Fieldwork I is designed to give the student a veridical understanding of alcohol and drug practice. Students volunteer at various local drug and alcohol agencies*. The focus is on addiction as a disease as well as environmental contributions to the addiction. The effects on the individual and family will be covered in addition to other support systems for those affected by addictions. A LCADC (License Certified Alcohol and Drug Counselor) at the agency directs and monitors the students' activities 90 hours during the semester.

- 90 hours of field experience required.



[AA-ASC-LAW; CIP Code 24.0101]

Associate in Arts (A.A.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Arts and Sciences: Pre-Law Option, A.A.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 101 Concepts of Mathematics	3
<input type="checkbox"/> HIS 101 History of Western Civilization I	3
<input type="checkbox"/> PLG 101 Introduction to Legal Studies	3
<input type="checkbox"/> SPE 101 Oral Communication	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> HIS 102 History of Western Civilization II	3
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> PLG 103 Legal Research and Writing	3
<input type="checkbox"/> MAT 103 Statistics	3
	<hr/> 15

SECOND YEAR – Fall Semester

<input type="checkbox"/> ENG ___ English General Education elective	3
<input type="checkbox"/> SOC 101 Principles of Sociology	3
<input type="checkbox"/> ___ Modern Language elective ²	3
<input type="checkbox"/> ___ Lab Science elective ¹	4
<input type="checkbox"/> POL 101 American Federal Government or POL 103 Introduction to Political Science	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> PHI 104 Ethics	3
<input type="checkbox"/> ART 101 Art Appreciation I or MUS 101 Music Appreciation I	3
<input type="checkbox"/> ___ Lab Science elective ¹	4
<input type="checkbox"/> CRJ 201 Criminal Law or CRJ 205 Administration of Justice	3
<input type="checkbox"/> HPE 105 Healthcare Provider Emergency Response with BLS Certification	1
	<hr/> 14

TOTAL MINIMUM CREDITS: 60

Program Notes

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

² Spanish recommended

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



[AS-CRJ; CIP Code 43.0103]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

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

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

Criminal Justice, A.S.

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

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 101 Concepts of Mathematics	3
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> CRJ 101 Introduction to Criminal Justice	3
<input type="checkbox"/> SPE 101 Oral Communications	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT 103 Statistics	3
<input type="checkbox"/> SOC 101 Principles of Sociology or SOC 102 Sociology of the Family or SOC 104 Social Problems*	3
<input type="checkbox"/> CRJ 205 The Administration of Justice	3
<input type="checkbox"/> CRJ 201 Criminal Law	3
	<hr/> 15

SECOND YEAR – Fall Semester

<input type="checkbox"/> PHI 104 Ethics	3
<input type="checkbox"/> PHY 241 Forensic Science I	4
<input type="checkbox"/> CRJ 215 Introduction to Criminology	3
<input type="checkbox"/> ____ Criminal Justice elective**	3
<input type="checkbox"/> HPE 105 Healthcare Provider Emergency Response with BLS Certification	1
	<hr/> 14

Spring Semester

<input type="checkbox"/> ____ Humanities elective ^{1***}	3
<input type="checkbox"/> SOC 220 Sociology of the Juvenile Delinquency	3
<input type="checkbox"/> PHY 242 Forensic Science II	4
<input type="checkbox"/> CRJ 250 Constitutional Issues in Criminal Justice	3
<input type="checkbox"/> ____ Criminal Justice elective****	3
	<hr/> 16

TOTAL MINIMUM CREDITS: 60

Program Notes

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

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

¹ SPA 101 or SPA 102 recommended. SPA 120 Spanish for Law Enforcement is not a general education elective.

Program Electives

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



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"/> CRJ 301 Drugs and Crime in America	3
<input type="checkbox"/> CRJ 305 Counseling and Guidance of the Offender	3
<input type="checkbox"/> ART 101 Art Appreciation or MUS 101 Music Appreciation	3
<input type="checkbox"/> ENG 230 Major American Writers	3
<input type="checkbox"/> LEN 221 Principles of Criminal Investigation	3
	<hr/> 15



Spring Semester

<input type="checkbox"/> CRJ 308 Theories of Crime and Criminality	3
<input type="checkbox"/> POL 101 American Federal Government	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> CRJ 281 or Free Elective	3
	<hr/> 15



Program Electives

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

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



Industry & Employment Opportunities

Bachelor's

Investigative Analyst, Criminal Justice Teacher,
Fraud Investigator

Master's

College Professor

Questions?

About 3+1:

Stephen Sweeney, 3+1 Assistant Director,
ssweeney1@rcsj.edu

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



[AS-ASC-EMO; CIP Code 43.0103]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

- 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, A.S.

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

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I or ENG 101E Enhanced English Composition I	3
<input type="checkbox"/> MAT 101 Concepts of Mathematics	3
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> EMG 101 Introduction to Emergency Management and Homeland Security	3
<input type="checkbox"/> SPE 101 Oral Communication	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT 103 Statistics	3
<input type="checkbox"/> SOC 104 Social Problems	3
<input type="checkbox"/> EMG 105 Planning for Emergencies	3
<input type="checkbox"/> POL 101 American Federal Government	3
	<hr/> 15

SECOND YEAR – Fall Semester

<input type="checkbox"/> PHY 241 Forensic Science I	4
<input type="checkbox"/> LEN 221 Principles of Criminal Investigation	3
<input type="checkbox"/> EMG 201 Incident Command: Theory and Practice	3
<input type="checkbox"/> HPE 105 Healthcare Provider Emergency Response with BLS Certification	1
<input type="checkbox"/> LEN 234 Introduction to Security	3
	<hr/> 14

Spring Semester

<input type="checkbox"/> GEO 115 Introduction to Geographic Information Systems	3
<input type="checkbox"/> PHI 104 Ethics	3
<input type="checkbox"/> PHY242 Forensics II	4
<input type="checkbox"/> CRJ 215 Introduction to Criminology	3
<input type="checkbox"/> EMG 205 Global Catastrophes	3
	<hr/> 16

TOTAL MINIMUM CREDITS 60

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



After completing the Criminal Justice — Emergency Management, 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"/> CRJ 301 Drugs and Crime in America	3
<input type="checkbox"/> CRJ 305 Counseling and Guidance of the Offender	3
<input type="checkbox"/> ART 101 Art Appreciation or MUS 101 Music Appreciation	3
<input type="checkbox"/> ENG 230 Major American Writers	3
<input type="checkbox"/> LEN 221 Principles of Criminal Investigation	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> CRJ 308 Theories of Crime and Criminality	3
<input type="checkbox"/> POL 101 American Federal Government	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> CRJ 281 or Free Elective	3
	<hr/> 15

Program Electives

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



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



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://rcsj.edu/3plus1)



[CER-EMMT; CIP Code 43.0107]

Certificate Program

This certificate provides an excellent foundation for law enforcement, homeland security and first responders. The certificate is structured to provide the student with exploratory academic experiences in Emergency Management.

Criminal Justice — Emergency Management, CERT

FIRST YEAR — Fall Semester

<input type="checkbox"/> EMG 101 Introduction to Emergency Management and Homeland Security	3
<input type="checkbox"/> EMG 201 Incident Command: Theory and Practice	3
<input type="checkbox"/> ENG 101 English Composition I or ENG 101E Enhanced English Composition I	3
<input type="checkbox"/> PHY 241 Forensic Science I	4
<input type="checkbox"/> LEN 234 Introduction to Security	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> GEO 115 Introduction to Geographic Information Systems	3
<input type="checkbox"/> PHY 242 Forensics II	4
<input type="checkbox"/> EMG 105 Planning for Emergencies	3
<input type="checkbox"/> EMG 205 Global Catastrophes	3
<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> HPE 105 Healthcare Provider Emergency Response with BLS Certification	1
	<hr/> 17

Total Credits 33

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



[AAS-LEN; CIP Code 43.0107]

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

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Employment Opportunities

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

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

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

Law Enforcement, A.A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> CRJ 101 Introduction to Criminal Justice	3
<input type="checkbox"/> SOC 101 Principles of Sociology or SOC 102 Sociology of the Family or SOC 104 Social Problems	3
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> SPE 101 Oral Communication	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> LEN 108 Police Supervision and Personnel Management	3
<input type="checkbox"/> LEN 102 Police Organization and Administration	3
<input type="checkbox"/> CRJ 201 Criminal Law	3
<input type="checkbox"/> CRJ 205 Administration of Justice	3
	<hr/> 15

SECOND YEAR – Fall Semester

<input type="checkbox"/> PHY 241 Forensic Science I	4
<input type="checkbox"/> CRJ 215 Introduction to Criminology	3
<input type="checkbox"/> LEN 221 Principles of Criminal Investigation	3
<input type="checkbox"/> ____ Law Enforcement elective ¹	3
<input type="checkbox"/> MAT 101 Concepts of Mathematics	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> PHY 242 Forensic Science II	4
<input type="checkbox"/> LEN 210 Contemporary Issues in Law Enforcement	3
<input type="checkbox"/> LEN 227 Introduction to Corrections	3
<input type="checkbox"/> SOC 220 Sociology of Juvenile Delinquency	3
<input type="checkbox"/> HPE 105 Healthcare Provider Emergency Response with BLS Certification	1
	<hr/> 14

TOTAL MINIMUM CREDITS: 60

Program Notes

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

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

¹ See advisor for recommendations.

Program Electives

LEN 234 Introduction to Security
 CRJ 238 Crime on the Internet
 CRJ 250 Constitutional Issues in Criminal Justice
 CRJ 270 Internship in Law Enforcement/Criminal Justice
 CRJ 225 Community Policing and Crime Analysis
 CRJ 230 Violent Crime in America
 CRJ 261 Organized Crime in America
 CRJ 262 Domestic and International Terrorism



[AAS-PLG; CIP Code 220302]

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

The Paralegal Program provides students with specialized legal training, enabling them to gather and analyze facts relevant to disputes, perform research, assist attorneys in drafting legal documents, and prepare witnesses and evidence for presentation at proceedings. Paralegals work in several settings including law offices, corporations, government agencies, and other entities that perform specifically delegated substantive legal work. Paralegals may not practice law. They may not provide legal services directly to the public, except as permitted by law.

Program Learning Outcomes

Students who have completed the program will be able to:

- Recognize ethical issues that arise in a legal work environment and apply rules of professional conduct to resolve them:
- Apply specialized legal training to enable them to gather and analyze facts relevant to legal disputes
- Demonstrate oral and written skills, including drafting legal documents for attorney review
- Apply basic principles of legal research and analysis
- Utilize time-management skills, including prioritizing various tasks, to meet deadlines, and
- Demonstrate sensitivity through adaptability and flexibility in working with a diverse group of people

Program Contact

Lucy P. McClain, Esq., Program Coordinator
 lmcclain@rcsj.edu

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

Law and Paralegal Studies, A.A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT ___ Mathematics elective	3-4
<input type="checkbox"/> CIS 102 Introduction to Computers	4
<input type="checkbox"/> PLG 101 Introduction to Legal Studies	3
<input type="checkbox"/> PLG 125 Business Organizations for Paralegals	3
	<hr/> 16-7

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> PLG 102 Litigation and Civil Procedure	3
<input type="checkbox"/> POL 101 American Federal Government	3
<input type="checkbox"/> CIS 120 Excel Spreadsheets	4
<input type="checkbox"/> PLG 103 Legal Research and Writing	3
	<hr/> 16

SECOND YEAR – Fall Semester

<input type="checkbox"/> PLG 104 Torts	3
<input type="checkbox"/> PLG 212 Paralegal Skills and Office Practices	3
<input type="checkbox"/> PLG ___ Elective ³	3
<input type="checkbox"/> PHY 241 Social Science General Education Elective	4
	<hr/> 13

Spring Semester

<input type="checkbox"/> PLG 209 Legal Assistant Practicum	3
<input type="checkbox"/> PLG 201 Criminal Law and Procedure	3
<input type="checkbox"/> PLG 204 Technology in the Law Firm	3
<input type="checkbox"/> PLG 205 Wills, Trusts and Estate Planning	3
<input type="checkbox"/> ___ ___ Humanities elective ⁴	3
	<hr/> 15

TOTAL MINIMUM CREDITS: 60

Program Notes

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

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

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

¹ In order to qualify for this A.A.S. Law and Paralegal Studies Degree from RCSJ, any legal specialty (PLG) courses taken prior to ABA approval (August 1998) will not be accepted for credit and must be taken again.

³ PLG Electives include: Contemporary Issues in Paralegal Studies (PLG 110)

Bankruptcy (PLG-203); Family Law (PLG-207); and Property Transactions (PLG-210)

⁴ SPE 101 (Oral Communications) recommended



[CER-PLG; CIP Code 220302]

Certificate Program

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

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

Paralegal, CERT

<input type="checkbox"/> CIS 102 Introduction to Computers or CIS 120 Excel Spreadsheets	4
<input type="checkbox"/> PLG 101 Introduction to Legal Studies	3
<input type="checkbox"/> PLG 102 Litigation and Civil Procedure	3
<input type="checkbox"/> PLG 103 Legal Research and Writing	3
<input type="checkbox"/> PLG 125 Business Organizations for Paralegals	3
<input type="checkbox"/> PLG 201 Criminal Law and Procedure	3
<input type="checkbox"/> PLG 204 Technology in the Law Firm	3
<input type="checkbox"/> PLG 209 Legal Assistant Practicum	3
<input type="checkbox"/> PLG 212 Paralegal Skills and Office Practices	3
<input type="checkbox"/> PLG ____ PLG elective ¹	3
<input type="checkbox"/> PLG ____ PLG elective ¹	3

TOTAL CREDITS: 34

Program Notes

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

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

¹ PLG electives include:

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



[AA-PSY; CIP Code 42.0101]

Associate in Arts (A.A.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

Audreen Pittman, Advisor,
apittman@rcsj.edu

✦ Are you ready to get started at RCSJ? ✦
 Visit ***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"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT ___ Mathematics elective ¹	3-4
<input type="checkbox"/> PSY ___ General Psychology	3
<input type="checkbox"/> ART 101 Art Appreciation I or MUS 101 Music Appreciation I	3
<input type="checkbox"/> HIS ___ History elective ³	3
	<hr/> 15-16

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT ___ Mathematics elective ¹	3-4
<input type="checkbox"/> PSY 211 Psychology of Human Development	3
<input type="checkbox"/> HIS ___ History elective ³	3
<input type="checkbox"/> HPE ___ Health and Physical Education elective	1-3
<input type="checkbox"/> PSY 212 Psychology of the Adolescent or PSY 213 Child Psychology	3
	<hr/> 16-19

SECOND YEAR – Fall Semester

<input type="checkbox"/> ___ Lab Science elective ¹	4
<input type="checkbox"/> ENG ___ English Literature elective ^{1,4}	3
<input type="checkbox"/> SOC 101 Principles of Sociology	3
<input type="checkbox"/> PSY ___ Program elective – Psychology ²	3
<input type="checkbox"/> PSY ___ Program elective – Psychology ²	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> ___ Lab Science elective ¹	4
<input type="checkbox"/> PHI 104 Ethics	3
<input type="checkbox"/> PSY ___ Program elective – Psychology ²	3
	<hr/> 13

TOTAL MINIMUM CREDITS: 60

Program Electives²

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



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

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

Psychology

THIRD Year — Fall Semester

<input type="checkbox"/> PSY 305 Psychology of Scientific Thinking	3
<input type="checkbox"/> PSY 306 Statistics in Psychology	3
<input type="checkbox"/> PSY 240 Social Psychology	3
<input type="checkbox"/> PHI 110 Religions of the World	3
<input type="checkbox"/> Free Elective	3
	<hr/>
	15

Spring Semester

<input type="checkbox"/> PSY 310 Psychology as a Profession and Practice	3
<input type="checkbox"/> PSY 315 Research Methods in Psychology	3
<input type="checkbox"/> PSY 230 Abnormal Psychology	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
	<hr/>
	15

Program Electives

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



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



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)



[AS-SSER; CIP Code 44.0701]

Associate in Arts (A.S.) – Transfer

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

Program Learning Outcome

Students who have completed the program will be able to:

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

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

Social Service, A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> CIS 102 Introduction to Computers	4
<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> HIS 205 World History I OR HIS 206 World History II	3
<input type="checkbox"/> SOC 101 Principles of Sociology	3
<input type="checkbox"/> Humanities General Education Elective**	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT 103 Statistics	3
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> SOC 104 Social Problems	3
<input type="checkbox"/> SPE 101 Oral Communication	3
	<hr/> 15

SECOND YEAR – Fall Semester

<input type="checkbox"/> BIO 107 Human Biology	4
<input type="checkbox"/> POL 120 Public Administration	3
<input type="checkbox"/> SOC 238 Social Minorities & Intergroup Relations	3
<input type="checkbox"/> SOC 240 Human Behavior in the Social Environment I	3
<input type="checkbox"/> SOC 250 Social Service Fieldwork I	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> SOC 235 Social Psychological Counseling	3
<input type="checkbox"/> SOC 241 Human Behavior in the Social Environment II	3
<input type="checkbox"/> SOC 160 Introduction to Social Work	3
<input type="checkbox"/> SOC 251 Social Service Fieldwork II	3
<input type="checkbox"/> Social Service Program Elective* OR	
<input type="checkbox"/> HPE 105 Healthcare Provider Emergency Response with BLS Certification	1-3
	<hr/> 13-15

TOTAL MINIMUM CREDITS: 60

Program Electives

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

**Foreign Language Recommended



DIVISION OF Business Studies

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

RCSJ.edu/Business

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.



[AAS-ACT; 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 Contact

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

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

Accounting, A.A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> BUS 101 Introduction to Business	3
<input type="checkbox"/> BUS 102 Accounting I	4
<input type="checkbox"/> CIS 102 Introduction to Computers	4
<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 105 Intermediate Algebra	4
	<hr/> 18

Spring Semester

<input type="checkbox"/> BUS 103 Accounting II	4
<input type="checkbox"/> CIS 120 Spreadsheets – EXCEL	4
<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT 103 Statistics	3
<input type="checkbox"/> COM 104 Business Communications	3
	<hr/> 17

SECOND YEAR – Fall Semester

<input type="checkbox"/> BUS 104 Personal and Professional Branding or HPE ____ Health and Physical Education elective	1–3
<input type="checkbox"/> BUS 106 Managerial Accounting	3
<input type="checkbox"/> BUS 107 Business Law I	3
<input type="checkbox"/> BUS 206 Federal Income Taxes	3
<input type="checkbox"/> ECO Economics elective	3
	<hr/> 13–15

Spring Semester

<input type="checkbox"/> BUS 108 Business Law II	3
<input type="checkbox"/> BUS 207 Accounting Information Systems	3
<input type="checkbox"/> CIS 207 Management Information Systems	3
<input type="checkbox"/> CEP 211 Internship Career Connections	3
	<hr/> 12

TOTAL MINIMUM CREDITS: 60



Accounting, COA

[COA-CAAT; 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.

Program Contact

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

- | | |
|--|---|
| <input type="checkbox"/> BUS 102 Accounting I | 4 |
| <input type="checkbox"/> BUS 103 Accounting II | 4 |
| <input type="checkbox"/> CIS 120 Spreadsheets – Excel | 4 |
| <input type="checkbox"/> BUS 207 Accounting Information Systems or
BUS 206 Federal Income Taxes or
BUS 106 Managerial Accounting | 3 |
| <input type="checkbox"/> BUS 104 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. ✦



[AS-BUS; 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

Program Contact

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

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.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BUS 102 Accounting I	4
<input type="checkbox"/> CIS 102 Introduction to Computers	4
<input type="checkbox"/> MAT 152 Applied Calculus	4
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> ____ Humanities elective	3
<input type="checkbox"/> BUS 103 Accounting II	4
	<hr/> 13

SECOND YEAR – Fall Semester

<input type="checkbox"/> MAT 103 Statistics	3
<input type="checkbox"/> BUS 231 Principles of Management ¹ or PSY 101 General Psychology or SOC 101 Principles of Sociology or BUS 106 Managerial Accounting	3
<input type="checkbox"/> ECO 101 Principles of Economics I	3
<input type="checkbox"/> BUS 221 Principles of Marketing	3
<input type="checkbox"/> BUS 107 Business Law I	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> CIS 207 Management Information Systems	3
<input type="checkbox"/> CIS 110 Fundamentals of Programming ² or ____ General Education elective	4
<input type="checkbox"/> ECO 102 Principles of Economics II	3
<input type="checkbox"/> BUS 108 Business Law II	3
<input type="checkbox"/> ____ Lab Science elective	4
	<hr/> 17

TOTAL CREDITS: 60

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

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



Offered Online

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



After completing the 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"/> BUS 310 Business Logistics	3
<input type="checkbox"/> BUS 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"/> BUS 304 Issues in Business: Directed Research	3
<input type="checkbox"/> BUS 308 Applied Human Resource Management II	3
<input type="checkbox"/> CEP 211 Internship Career Connections	3
<input type="checkbox"/> World Language 102 Level Elective	3
<input type="checkbox"/> ENG ____ 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's

*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)



*After completing the **Business Administration A. S.**, students may choose to continue with the bachelor's degree pathway at RCSJ.*

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

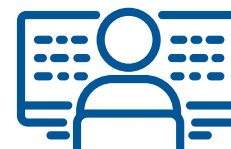
Data Analytics 3+1

THIRD YEAR — Fall Semester

<input type="checkbox"/> CSC 106 Introduction to Data Science	3
<input type="checkbox"/> — — Elective Artistic Literacy	3
<input type="checkbox"/> CIS 200 Principles of Information Security	3
<input type="checkbox"/> CIS 300 Applied Database Technologies	3
<input type="checkbox"/> — — Free Elective (requirement is CIS110 unless it was completed during the A.S.)	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> CSC 225 Programming in R	2
<input type="checkbox"/> CSC 205 Programming in C++	4
<input type="checkbox"/> DATA 301 Research Methods & Ethical Issues in Data Analysis	3
<input type="checkbox"/> MAT 203 Statistics II	3
<input type="checkbox"/> — — Elective Global Literacy	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

*Business Analyst, Disaster Recovery Mitigation Analyst,
Data Analyst – Business Intelligence*

Master's

Financial Data Analyst, Data Scientist

Questions?

About 3+1:

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

About the program:

Karen Durkin, Asst. Dean,
STEM Division, kdurkin@rcsj.edu

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



Business Software Tools, COA

[COA-CABT; CIP Code 11.0201]

Certificate of Achievement



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

Program Contact

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

<input type="checkbox"/> CIS 102 Introduction to Computers	4
<input type="checkbox"/> CIS 120 Spreadsheets – EXCEL	4
<input type="checkbox"/> CIS 210 Relational Databases	4
<input type="checkbox"/> BUS 207 Accounting Information Systems or CIS ____ CIS elective	3
<input type="checkbox"/> BUS 104 Personal and Professional Branding	1

TOTAL CREDITS: 16

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

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



[AAS-CGA-GID; CIP Code 11.0803]

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

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

✦ 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.

FIRST YEAR – Fall Semester

<input type="checkbox"/> CGA 103 Design, Color and Type	3
<input type="checkbox"/> CGA 115 Foundations of Computer Graphic Arts	3
<input type="checkbox"/> ART 131 Introduction to Digital Photography	3
<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 101 Concepts of Mathematics	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> CGA 118 Introduction to Animation	3
<input type="checkbox"/> CGA 130 Video and Audio Editing	3
<input type="checkbox"/> CGA 120 Introduction to Electronic Publishing and Typography	3
<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> ____ General Education elective	3
	<hr/> 15

SECOND YEAR – Fall Semester

<input type="checkbox"/> CGA 212 Screen Graphics	3
<input type="checkbox"/> CGA 215 Electronic Illustration I	3
<input type="checkbox"/> CGA 217 Electronic Image Processing	3
<input type="checkbox"/> ____ Social Science elective	3
<input type="checkbox"/> COM 104 Business Communications or CEP 211 Internship Career Connections	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> ART 231 Intermediate Digital Photography	3
<input type="checkbox"/> CGA 219 Web Design	3
<input type="checkbox"/> CGA 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 [rcsj.edu/laptop](https://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

[COA-CAGD; CIP Code 11.0803]

Certificate of Achievement

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

Program Contact

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

<input type="checkbox"/> CGA 103 Design, Color and Type	3
<input type="checkbox"/> CGA 118 Introduction to Animation	3
<input type="checkbox"/> CGA 130 Video and Audio Editing	3
<input type="checkbox"/> CGA 212 Screen Graphics	3
<input type="checkbox"/> CGA 218 Game and Interactive Authoring	3
<input type="checkbox"/> CGA 219 Web Design	3

TOTAL CREDITS: 18

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

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



[AAS-CGA-PRT; CIP Code 11.0803]

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

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

✦ 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.

FIRST YEAR – Fall Semester

<input type="checkbox"/> CGA 103 Design, Color and Type	3
<input type="checkbox"/> CGA 115 Foundations of Computer Graphic Arts	3
<input type="checkbox"/> ART 105 Drawing I	3
<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 101 Concepts of Mathematics	3
	15

Spring Semester

<input type="checkbox"/> ART 131 Introduction to Digital Photography	3
<input type="checkbox"/> CGA 130 Video and Audio Editing	3
<input type="checkbox"/> CGA 120 Introduction to Electronic Publishing and Typography	3
<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> ____ General Education elective	3
	15

SECOND YEAR – Fall Semester

<input type="checkbox"/> CGA 220 Advanced Electronic Publishing	3
<input type="checkbox"/> CGA 215 Electronic Illustration I	3
<input type="checkbox"/> CGA 217 Electronic Image Processing	3
<input type="checkbox"/> ____ Social Science elective	3
<input type="checkbox"/> COM 104 Business Communications or	3
<input type="checkbox"/> CEP 211 Internship Career Connections	
	15

Spring Semester

<input type="checkbox"/> CGA 219 Web Design	3
<input type="checkbox"/> ART 201 Art History I	3
<input type="checkbox"/> ____ General Education elective	3
<input type="checkbox"/> ____ General Education elective	3
<input type="checkbox"/> ART 231 Intermediate Digital Photography	3
	15

TOTAL CREDITS: 60

Program Notes

Computer Graphic Arts is an academic program that requires students to complete assignments beyond class time. The Computer Graphic Arts program requires students to have a computer at home with specific technology requirements, which will allow students to run the Adobe Creative Cloud Software Suite. For the specific technical requirements for the computer, please see [rcsj.edu/laptop](https://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.



[COA-CAPD; CIP Code 11.0803]

Certificate of Achievement

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

Program Contact

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

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

Computer Graphic Arts: Print Design, COA

<input type="checkbox"/> CGA 103 Design, Color and Type	3
<input type="checkbox"/> CGA 120 Introduction to Electronic Publishing and Typography	3
<input type="checkbox"/> CGA 220 Advanced Electronic Publishing	3
<input type="checkbox"/> CGA 215 Electronic Illustration I	3
<input type="checkbox"/> CGA 217 Electronic Image Processing	3
<input type="checkbox"/> CGA 219 Web Design	3

TOTAL CREDITS: 18

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



[AS-CIS; CIP Code 11.0101]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

✦ 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.

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

FIRST YEAR –Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 103 Statistics	3
<input type="checkbox"/> CIS 102 Introduction to Computers	4
<input type="checkbox"/> CIS 151 Web Development – HTML/CSS	4
	<hr/> 14

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> CIS 110 Fundamentals of Programming	4
<input type="checkbox"/> CIS 120 Spreadsheets – EXCEL	4
<input type="checkbox"/> CIS 154 Advanced Web Development	3
	<hr/> 14

SECOND YEAR – Fall Semester

<input type="checkbox"/> ECO 101 Principles of Economics I	3
<input type="checkbox"/> CIS 210 Relational Databases	4
<input type="checkbox"/> CIS 251 Web Programming	3
<input type="checkbox"/> Humanities elective	3
<input type="checkbox"/> Business elective*	3-4
	<hr/> 16-17

Spring Semester

<input type="checkbox"/> ECO 102 Principles of Economics II	3
<input type="checkbox"/> CIS 207 Management Information Systems	3
<input type="checkbox"/> CIS 264 Database Application Development	3
<input type="checkbox"/> Program elective**	3
<input type="checkbox"/> Lab Science elective	4
	<hr/> 16

TOTAL MINIMUM CREDITS: 60

Program Notes

Business Elective*

Select 1 of the following courses

- BUS 102 Accounting I
- BUS 107 Business Law I
- BUS 207 Accounting Information Systems
- BUS 221 Principles of Marketing
- BUS 224 Social Media Marketing and Web Analytics
- BUS 231 Principles of Management

Program Elective**

Select 1 of the following courses

- CIS 200 Principles of Information Security
- CIS 220 IT Help Desk/Technical Support
- CEP 211 Internship Career Connections

BUS 231 is recommended for transfer to Wilmington University

CIS 200 is recommended for transfer to Wilmington University



Offered Online

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



After completing the Computer Information Systems, A.S., students may choose to continue with the bachelor's degree pathway at RCSJ.

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

Data Analytics 3+1

THIRD YEAR — Fall Semester

❑ CSC 106 Introduction to Data Science	3
❑ CIS 300 Applied Database Technologies	3
❑ CSC 205 Programming in C++	4
❑ ____ Elective Artistic Literacy	3
❑ CIS 200 Principles of Information Security	3

Spring Semester

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



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



Industry & Employment Opportunities

Bachelor's

Data Center Computer Operations, Database Administrator, Data Engineer, Information Management

Master's

Principal Data Scientist, College Professor

Questions?

About 3+1:

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

About the program:

Karen Durkin, Asst. Dean,
STEM Division, kdurkin@rcsj.edu

RCSJ.edu/3plus1



[AAS-DMK; 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 Contact

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

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

Digital Marketing, A.A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BUS 101 Introduction to Business	3
<input type="checkbox"/> CIS 102 Introduction to Computers	4
<input type="checkbox"/> CIS 151 Web Development – HTML/CSS	4
<input type="checkbox"/> MAT 103 Statistics	3
	<hr/> 17

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BUS 221 Principles of Marketing	3
<input type="checkbox"/> CIS 154 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"/> SPE 101 Oral Communications	3
<input type="checkbox"/> BUS 102 Accounting I	4
<input type="checkbox"/> BUS 224 Social Media Marketing and Web Analytics	3
<input type="checkbox"/> BUS 231 Principles of Management	3
<input type="checkbox"/> COM 104 Business Communications or COM 210 Communication Ethics, A.I. & Media Analysis	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> ____ Humanities or Social Science elective	3
<input type="checkbox"/> CIS 207 Management Information Systems	3
<input type="checkbox"/> BUS 225 Principles of Advertising	3
<input type="checkbox"/> CEP 211 Internship Career Connections	3
	<hr/> 12

TOTAL MINIMUM CREDITS: 60

Program Elective (select one)**

CGA 103	Design, Color and Type
BUS 103	Accounting II
BUS 107	Business Law I
BUS 241	Business Ethics
BUS 239	Organizational Behavior
CGA 115	Foundations of Computer Graphic Arts
CIS 120	Spreadsheets – EXCEL
COM 220	Mass Media
CSC 106	Intro to Data Science

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.



Offered Online

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



Digital Marketing, COA

[COA-CADM; CIP Code 52.1401]

Certificate of Achievement



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

Program Contact

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

<input type="checkbox"/> BUS 221 Principles of Marketing	3
<input type="checkbox"/> BUS 224 Social Media Marketing and Web Analytics	3
<input type="checkbox"/> BUS 225 Principles of Advertising	3
<input type="checkbox"/> CIS 151 Web Development – HTML/CSS	4
<input type="checkbox"/> CIS 154 Advanced Web Development	3

TOTAL CREDITS: 16

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

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



[AAS-ENTR; CIP Code 52.0701]

Associate in Applied Science (A.A.S.) – 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.s
- 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.

Program Contact

José Torres, Associate Professor
 Entrepreneurship
jtorres4@rcsj.edu

✦ 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.

FIRST YEAR – Fall Semester

<input type="checkbox"/> BUS 102 Accounting I	4
<input type="checkbox"/> BUS 107 Business Law I	3
<input type="checkbox"/> BUS 129 Introduction to Entrepreneurship	3
<input type="checkbox"/> ENG 101 English Composition I	3
	<hr/> 13

Spring Semester

<input type="checkbox"/> BUS 231 Principles of Management	3
<input type="checkbox"/> BUS 221 Principles of Marketing	3
<input type="checkbox"/> CIS 102 Introduction to Computers	4
<input type="checkbox"/> ENG 102 English Composition II or COM 105 Technical and Scientific Writing	3
<input type="checkbox"/> SPE 101 Oral Communication	3
	<hr/> 16

SECOND YEAR – Fall Semester

<input type="checkbox"/> BUS 225 Principles of Advertising	3
<input type="checkbox"/> BUS 237 Human Resource Management	3
<input type="checkbox"/> CIS 120 Spreadsheets - EXCEL	4
<input type="checkbox"/> ECO 102 Principles of Economics II (Micro)	3
<input type="checkbox"/> MAT 103 or MAT 107 or Higher (excluding MAT 120) General Education Mathematics Elective	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> BUS 207 Accounting Information Systems	3
<input type="checkbox"/> BUS 234 Small Business Management	3
<input type="checkbox"/> BUS 224 Social Media Marketing and Web Analytics	3
<input type="checkbox"/> BUS 212 Introduction to International Business or COM 104 Business Communications	3
<input type="checkbox"/> General Education Humanities Elective	3
	<hr/> 15

TOTAL MINIMUM CREDITS: 60



Offered Online



[COA-CAEN; CIP Code 52.0701]

Certificate of Achievement



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

Program Contact

José Torres, Associate Professor
Entrepreneurship
jtorres4@rcsj.edu

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

Entrepreneurship, COA

<input type="checkbox"/> BUS 129 Introduction to Entrepreneurship	3
<input type="checkbox"/> BUS 231 Principles of Management	3
<input type="checkbox"/> BUS 234 Small Business Management	3
<input type="checkbox"/> CIS 102 Introduction to Computers or CIS 120 Spreadsheets - EXCEL	4
<input type="checkbox"/> Program Elective	3/4

TOTAL MINIMUM CREDITS: 16

Program Electives - Select One

<input type="checkbox"/> BUS 102 Accounting I	4
<input type="checkbox"/> BUS 107 Business Law I	3
<input type="checkbox"/> BUS 207 Accounting Information Systems	3
<input type="checkbox"/> BUS 221 Principles of Marketing	3
<input type="checkbox"/> BUS 224 Social Media Marketing and Web Analytics	3
<input type="checkbox"/> BUS 237 Human Resource Management	3
<input type="checkbox"/> COM 104 Business Communications	3
<input type="checkbox"/> SPE 101 Oral Communication	3

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



[AS-HRM; CIP Code 52.1005]

Associate in Science (A.S.) – Transfer



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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

✦ 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"/> BUS 102 Accounting I	4
<input type="checkbox"/> CIS 102 Introduction to Computers	4
<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BUS 104 Personal and Professional Branding or HPE ____ Health and Physical Education elective	1–3
	<hr/> 12–14

Spring Semester

<input type="checkbox"/> BUS 103 Accounting II	4
<input type="checkbox"/> BUS 231 Principles of Management	3
<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT 151 Mathematics for Management	4
<input type="checkbox"/> PSY 101 General Psychology	3
	<hr/> 17

SECOND YEAR – Fall Semester

<input type="checkbox"/> BUS 237 Human Resource Management	3
<input type="checkbox"/> BUS 239 Organizational Behavior	3
<input type="checkbox"/> ____ Humanities elective	3
<input type="checkbox"/> ____ Science elective	4
<input type="checkbox"/> SPE 101 Oral Communications	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> BUS 221 Principles of Marketing	3
<input type="checkbox"/> BUS 241 Business Ethics	3
<input type="checkbox"/> BUS 243 Organizational Development	3
<input type="checkbox"/> CEP 211 Internship Career Connections	3
<input type="checkbox"/> ECO 101 Principles of Economics I	3
	<hr/> 15

TOTAL MINIMUM CREDITS: 60



Offered Online

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



[COA-CAMT; CIP Code 52.1401]

Certificate of Achievement

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

Program Contact

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

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

Management, COA

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

TOTAL CREDITS: 16

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



Technology Help Desk Support, COA

[COA-CATS; CIP Code 11.0201]

Certificate of Achievement

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

Program Contact

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

<input type="checkbox"/> CIS 102 Introduction to Computers	4
<input type="checkbox"/> CIS 120 Spreadsheets – EXCEL	4
<input type="checkbox"/> CIS 210 Relational Databases	4
<input type="checkbox"/> CIS 220 IT Technical/Help Desk Support	3
<input type="checkbox"/> CIS ____ CIS elective or CEP ____ Internship Career Connections	3

TOTAL CREDITS: 18

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

✦ 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

[COA-CAWD; CIP Code 11.0801]

Certificate of Achievement

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

Program Contact

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

<input type="checkbox"/> CIS 151 Web Development – HTML/CSS	4
<input type="checkbox"/> CIS 154 Advanced Web Development	3
<input type="checkbox"/> CGA 212 Screen Graphics	3
<input type="checkbox"/> CIS 110 Fundamentals of Programming	4
<input type="checkbox"/> CIS 251 Web Programming	3

TOTAL CREDITS: 17

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



DIVISION OF Career & Technical Education

Invest in your future by developing the skills
and knowledge required for employment
in high-wage, fast-growing industries.

RCSJ.edu/CTE

Shaniel Brown, Global Wind Organization Basic Technical Training



4 academic delivery methods:



In-Person



Live Online



Hybrid



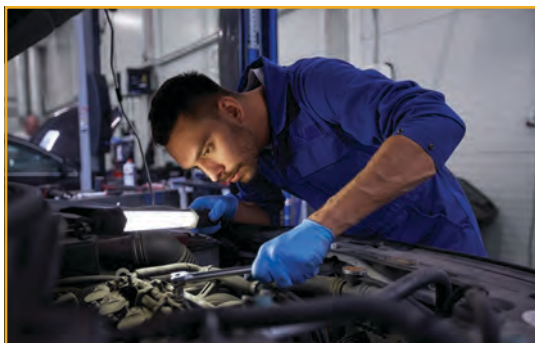
Traditional Online

Find Your Program

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

Find Your Opportunity

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



[AAS-AUT; CIP Code 470604]

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

The goal of this program is to provide graduates with theory and practice through classroom study and internships, to qualify for immediate employment in the automotive industry or to transfer to a four-year automotive management program.

Program Learning Outcomes

Students who have completed the program will be able to:

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

Special Program Admission Information

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

Program Contacts

Matthew Maggioncalda, Instructor,
Automotive Technology Program
mmaggion@rcsj.edu

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

Are you ready to get
started at RCSJ?

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

Automotive Technology, A.A.S.

FIRST YEAR – First Semester

☐ AUT 101 Auto Service Fundamentals	2
☐ AUT 107 Automotive Electrical Systems	5
☐ ENG 101 English Composition I	3
☐ MAT 100 Foundations of Mathematics I	3
☐ CEP 200 Cooperative Education Work Experience ¹	1
	<hr/> 14

Second Semester

☐ AUT 105 Brakes and Hydraulics Controls	3
☐ AUT 103 Front End Suspension	3
☐ HIS 204 First 100 Years of the American Auto	3
☐ PHY 101 Principles of Physical Science	4
☐ ART 101 Art Appreciation	3
	<hr/> 16

Third Semester

☐ AUT 110 Engine Repair	4
☐ AUT 111 Heating, Ventilation and Air Conditioning	3
☐ CIS 102 Introduction to Computers	4
☐ AUT 135 Manual Transmissions	3
☐ CEP 203 Cooperative Education Work Experience ¹	1
	<hr/> 15

SECOND YEAR – Fourth Semester

☐ CEP 204 Cooperative Education Work Experience ¹	1
☐ AUT 139 Automatic Transmission Systems	3
☐ AUT 123 Automotive Electronics	4
☐ ENG 102 English Composition II	3
☐ PSY 101 General Psychology	3
☐ CEP 208 Cooperative Education Work Experience ¹	1
	<hr/> 15

TOTAL CREDITS: 60

Program Notes

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

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

Automotive Technology is a selective admission program with a customized admission schedule which accommodates alternating 10-week semesters and Internship Career Connections.



[AAS-PTE; CIP Code 150699]

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

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

Program Learning Outcomes

Students who have completed this program will be able to:

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

Program Contact

Brigitte Satchell, Dean,
Career and Technical Education
bsatchel@rcsj.edu

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

Process Technology, A.A.S.

FIRST YEAR – Fall Semester

☐ ENG 101 English Composition I	3
☐ MAT 105 Intermediate Mathematics	4
☐ CHM 107 Introductory Chemistry	4
☐ PTE 101 Process Technology I: Intro. to Process Technology	3
	<hr/> 14

Spring Semester

☐ MAT 110 Algebra and Trigonometry	4
☐ PTE 102 Process Technology II: Instrumentation	3
☐ PTE 103 Principles of Occupational Safety and Health	3
☐ PTE 201 Process Technology Equipment	4
	<hr/> 14

Summer Semester

☐ CEP 211 Internship Career Connections	3
---	---

SECOND YEAR – Fall Semester

☐ SPE 101 Oral Communication	3
☐ COM 105 Technical and Scientific Writing	3
☐ PHY 103 General Physics I	4
☐ PTE 202 Process Technology Systems and Troubleshooting	5
	<hr/> 15

Spring Semester

☐ SOC 130 Society, Ethics and Technology	3
☐ CIS 102 Introduction to Computers	4
☐ ENG 102 English Composition II	3
☐ ____ Program elective ¹	3–4
☐ HPE 105 Healthcare Provider Emergency Response with BLS Certification ²	1
	<hr/> 14–15

TOTAL MINIMUM CREDITS: 60

Program Notes

Students should review requirements at their transfer institutions.

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

² HPE 105 Healthcare Provider Emergency Response with BLS Certification recommended



[AAS-TEC; CIP Code 15.9999]

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

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Employment Opportunities

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

Program Contact

Brigitte Satchell, Dean,
Career and Technical Education
bsatchel@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"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT ____ General Education Mathematics elective or	
<input type="checkbox"/> General Education Science elective or	3-4
<input type="checkbox"/> General Education Technology elective	3-4
<input type="checkbox"/> General Education elective	3-4
<input type="checkbox"/> Technical elective*	3-4
	<hr/> 12-15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> General Education Social Science or	
<input type="checkbox"/> General Education Humanities elective	3
<input type="checkbox"/> Technical elective*	3-4
<input type="checkbox"/> Technical elective*	3-4
	<hr/> 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
	<hr/> 9-10

Spring Semester

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

<input type="checkbox"/> Apply up to 24 Technical Credits, as per Articulation Agreement**	24
---	----

TOTAL MINIMUM CREDITS: 60

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

Business Studies - BUS; Computer Information Systems - CIS; Computer Graphic Arts - CGA;
Computer Science - CSC; Civil Engineering Technology - CET; Drafting and Design - OFT;
Engineering Science - ENR; Surveying Engineering Technologies

**Technical Credits

College credit will be awarded for military or apprenticeship training programs in the building and construction trades, based upon the American Council on Education (ACE) review and evaluation of the program and their recommendations for awarding academic credit for successful completion of those programs. These credits will be placed on the students' transcripts when documentation of satisfactory completion is presented by an official of the apprenticeship program and after the student matriculates into a degree program, and has completed 24 credits of course work at Rowan College of South Jersey. College credits for specialized certifications obtained in a corporate or industrial setting may also be awarded, based on the credentials obtained and the documentation provided. From 3 to 24 credits may be awarded, based on the ACE review and the recommendations provided by Student Services. Students with less than 24 credits may select credits from the Technical electives listed above.



[CER-WIND; CIP Code 150699]

Certificate

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

Program Learning Outcomes

Students who have completed this program will be able to:

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

Program Contact

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

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

Wind Power and Turbine Technology, CERT

FIRST YEAR — Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 107 Pre-Calculus and Mathematics Analysis	4
<input type="checkbox"/> ETEC 107 Circuits I	3
<input type="checkbox"/> ETEC 218 Programmable Logic Controllers	3
<input type="checkbox"/> ETEC 240 Pneumatic and Hydraulic Automation	4
	<hr/> 17

Spring Semester

<input type="checkbox"/> CIS 110 Fundamentals of Programming	4
<input type="checkbox"/> WIND 101 Offshore Safety and Survival	3
<input type="checkbox"/> WIND 110 Wind Power Technology	3
<input type="checkbox"/> WIND 115 Wind Power Operations and Maintenance	4
	<hr/> 16

TOTAL CREDITS: 33



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.



[AA-ASC-ART; CIP Code 240101]

Associate in Arts (A.A.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

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

Arts and Sciences: Art Option, A.A.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT ___ Mathematics elective ¹	3–4
<input type="checkbox"/> ART 101 Art Appreciation I	3
<input type="checkbox"/> MUS 101 Music Appreciation I	3
<input type="checkbox"/> HIS 101 History of Western Civilization I ²	3
	<hr/> 15–16

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT ___ Mathematics elective ¹	3–4
<input type="checkbox"/> HIS 102 History of Western Civilization II	3
<input type="checkbox"/> ___ Global and Cultural Awareness elective	3
<input type="checkbox"/> HPE ___ Health and Physical Education elective	1–3
<input type="checkbox"/> ART 201 Art History I	3
	<hr/> 16–18

SECOND YEAR – Fall Semester

<input type="checkbox"/> ___ Lab Science elective ¹	4
<input type="checkbox"/> SOC 101 Principles of Sociology	3
<input type="checkbox"/> ENG ___ English elective	3
<input type="checkbox"/> ART 202 Art History II	3
	<hr/> 13

Spring Semester

<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> ___ Lab Science elective ¹	4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> PHI 101 Introduction to Philosophy	3
<input type="checkbox"/> ART ___ Program elective – Art ³	3
	<hr/> 16

TOTAL MINIMUM CREDITS: 60

Program Notes

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

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

³Program Electives

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



[AA-ASC-COM; CIP Code 240101]

Associate in Arts (A.A.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

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: Communication Option, A.A.

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

FIRST YEAR –Fall Semester

□ ENG 101 English Composition I	3
□ MAT ___ Mathematics elective (MAT 101, 102 or 110 suggested)	3–4
□ PSY 101 General Psychology	3
□ ART 101 Art Appreciation I or MUS 101 Music Appreciation I	3
□ HIS 101 History of Western Civilization I	3
	<hr/> 15-16

Spring Semester

□ ENG 102 English Composition II	3
□ MAT 103 Statistics	3
□ SOC 101 Principles of Sociology	3
□ HIS 102 History of Western Civilization II	3
□ ___ Program Option elective (3+1 Students COM 104 or COM 220)	3
	<hr/> 15

SECOND YEAR – Fall Semester

□ ___ Lab Science elective ¹	4
□ ENG Global and Cultural Awareness Elective	3
□ COM 201 Journalism I	3
□ ___ Global and Cultural Awareness	3
□ COM ___ Program Option elective ¹	3
	<hr/> 16

Spring Semester

□ SPE 101 Oral Communication	3
□ ___ Lab Science elective ¹	4
□ PHI 101 Introduction to Philosophy	3
□ HPE ___ Health and Physical Education elective	1–3
□ COM ___ Program Option elective ^{3,4}	3
	<hr/> 14

TOTAL MINIMUM CREDITS: 60

Program Option Electives

COM 104 Business Communications
COM 105 Technical and Scientific Writing
COM 115 Sports Communication, Culture & Identity
COM 140 Internet Research and Communications
COM 150 Argumentative and Persuasive Writing
COM 205 Feature Writing ³
COM 206 Creative Writing: Non-Fiction
COM 207 Creative Writing: Fiction
COM 208 Creative Writing: Poetry
COM 214 Journalism Workshop I
COM 220 Mass Media ³
CGA 103 Design Type and Color ⁴
CGA 120 Introduction to Electronic Publishing and Typography ⁴

Program Notes

¹ Students should contact their advisors to clarify 4-year degree transfer requirements and refer to the College catalog for course pre-requisites.

² English Global and Cultural Awareness Electives

³ Students intending to transfer to Rowan University should take COM 205 Feature Writing and COM 220 Mass Media as program option electives.

⁴ Students intending to take the 3+1 Applied Professional Communications Option are recommended to take CGA 103 and CGA 120 as Program Option Electives



After completing the Arts and Sciences: Communication Option, A.A., students may choose to continue with the bachelor's degree pathway at RCSJ.

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

Applied Professional Communications 3+1

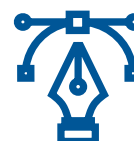
THIRD YEAR — Fall Semester

<input type="checkbox"/> COM 305 Writing, Research and Technology	3
<input type="checkbox"/> COM 324 Introduction to New Media	3
<input type="checkbox"/> Literature or Writing Elective	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
	<hr/>
	15



Spring Semester

<input type="checkbox"/> COM 300 Publication, Layout and Design	3
<input type="checkbox"/> COM 334 Digital Media Techniques	3
<input type="checkbox"/> CGA 120 Introduction to Electronic Publishing and Technology or Free Elective	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
	<hr/>
	15



Suggested Year 3 Electives

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

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



Industry & Employment Opportunities

Bachelor's

Public Relations Specialist, Marketing Strategist,
Advertising and Promotions Manager

Master's

Broadcast News Analyst, Reporter, Journalist,
Community Health Worker

Questions?

About 3+1:

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

About the program:

Andrea Vinci, Ed.D., avinci@rcsj.edu

RCSJ.edu/3plus1



[AA-ASC-PHO; CIP Code 240101]

Associate in Arts (A.A.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

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

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

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT ___ Mathematics elective ¹	3–4
<input type="checkbox"/> HIS ___ History elective	3
<input type="checkbox"/> ART ___ Art elective ²	3
<input type="checkbox"/> ART 121 History of Photography	3
	<hr/> 15–16

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT ___ Mathematics elective ¹	3–4
<input type="checkbox"/> HIS ___ History elective	3
<input type="checkbox"/> ART 131 Introduction to Digital Photography	3
<input type="checkbox"/> ___ Global and Cultural Awareness elective ¹	3
<input type="checkbox"/> HPE ___ Health and Physical Education elective	1–3
	<hr/> 16–18

SECOND YEAR – Fall Semester

<input type="checkbox"/> ___ Lab Science elective ¹	4
<input type="checkbox"/> SOC 101 Principles of Sociology	3
<input type="checkbox"/> ENG ___ English elective	3
<input type="checkbox"/> ART 141 Introduction to Photoshop	3
	<hr/> 13

Spring Semester

<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> ___ Lab Science elective ¹	4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> PHI 101 Introduction to Philosophy	3
<input type="checkbox"/> ART 231 Intermediate Digital Photography	3
	<hr/> 16

TOTAL MINIMUM CREDITS: 60

Program Notes

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

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

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

Program Electives²

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



Digital Photography, COA

[COA-CADP; CIP Code 090702]

Certificate of Achievement

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

Program Contact

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

<input type="checkbox"/> ART 131 Introduction to Digital Photography	3
<input type="checkbox"/> ART 141 Introduction to Photoshop	3
<input type="checkbox"/> ART 231 Intermediate Digital Photography	3
<input type="checkbox"/> ART 121 History of Photography	3
<input type="checkbox"/> ART 116 Color Theory	3

TOTAL CREDITS: 15

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



[AA-ASC-ENG; CIP Code 240101]

Associate in Arts (A.A.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

Dr. Sarah Hastings
shastin1@rcsj.edu

✦ 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: English Option, A.A.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT ___ Mathematics elective	3–4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> ART 101 Art Appreciation I or MUS 101 Music Appreciation I	3
<input type="checkbox"/> HIS 101 History of Western Civilization I ²	3
	<hr/> 15–16

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT ___ Mathematics elective ¹	3–4
<input type="checkbox"/> ENG 103 Survey of World Literature	3
<input type="checkbox"/> HIS 102 History of Western Civilization II ²	3
<input type="checkbox"/> ENG ___ Program Option elective – English	3
<input type="checkbox"/> HPE ___ Health and Physical Education elective	1–3
	<hr/> 16–19

SECOND YEAR – Fall Semester

<input type="checkbox"/> ___ Lab Science elective ¹	4
<input type="checkbox"/> SOC 101 Principles of Sociology	3
<input type="checkbox"/> PHI 101 Introduction to Philosophy	3
<input type="checkbox"/> ENG 230 Major American Writers	3
<input type="checkbox"/> ___ Global and Cultural Awareness elective	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> ___ Lab Science elective ¹	4
<input type="checkbox"/> ENG 207 Major British Writers from the Middle Ages to the 17th Century or ENG 208 Major British Writers from the 18th Century to the Present	3
<input type="checkbox"/> ENG ___ Program Option elective – English	3
	<hr/> 13

TOTAL MINIMUM CREDITS: 60

Program Notes

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

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

Program Electives

COM 206 Creative Writing: Nonfiction
 COM 207 Creative Writing: Fiction
 COM 208 Creative Writing: Poetry
 ENG 107 Principles of English Grammar
 ENG 203 Literature by Women
 ENG 213 Non-Western Literature
 ENG 215 Immigrant Voices in American Literature
 ENG 222 Romantic Era in American Literature
 ENG 225 20th Century American Authors

ENG 235 American Film Classics
 ENG 236 Contemporary American Film
 ENG 237 American Horror Literature: Poe to King
 ENG 238 Films of Alfred Hitchcock
 ENG 240 Introduction to Children's Literature
 ENG 241 Survey of African American Literature



[AA-ASC-MUS; CIP Code 240101]

Associate in Arts (A.A.) – Transfer

This program provides the general education foundation necessary for a variety of disciplines and is designed for students who are planning to transfer to a baccalaureate degree. Using available elective credits students may focus on Music as a specific field of study.

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

Dr. Natakla Pavlovsky, Professor, Music
 npavlovs@rcsj.edu

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: Music Option, A.A.

FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> HIS 101 History of Western Civilization I	3
<input type="checkbox"/> ART 101 Art Appreciation I	3
<input type="checkbox"/> MAT ____ Mathematics elective*	3-4
	<hr/> 12-13

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> HIS 102 History of Western Civilization II	3
<input type="checkbox"/> MUS 212 Music Theory I**	3
<input type="checkbox"/> MUS 215 Aural Skills I**	1
<input type="checkbox"/> ____ Global and Cultural Awareness General Education Elective – Diversity*	3
<input type="checkbox"/> MAT ____ Mathematics Elective*	3-4
	<hr/> 16-17

SECOND YEAR – Fall Semester

<input type="checkbox"/> ENG ____ English Elective	3
<input type="checkbox"/> ____ General Education Elective - Ethics*	3
<input type="checkbox"/> ____ Lab Science Elective*	4
<input type="checkbox"/> SOC 101 Principles of Sociology	3
<input type="checkbox"/> MUS 126 History of Music	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> PHI 101 Introduction to Philosophy	3
<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> ____ Lab Science Elective*	4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> MUS ____ Program Option Elective(s) – Music	3
	<hr/> 16

TOTAL MINIMUM CREDITS: 60

Program Notes

* Students should contact their advisor to clarify 4 year degree transfer requirements and refer to the College catalog for course pre-requisites.

** Incoming music students need to take the Theory Placement Exam. Students who do not achieve a passing grade should take MUS113, Fundamentals of Musicianship, in their 1st semester. (Note: 113 will NOT transfer to any 4-yr music program. This course is open to any interested RCSJ student, and Music Option students who need to learn or review basics.) A passing grade on the placement is required to place into/register for MUS 212/215

Program Electives

MUS 106, 107, 108, 109: Choral Workshop I - IV
 MUS 113: Fundamentals of Musicianship
 MUS 118: American Popular Music
 MUS 121: A History of Broadway: American Musical Theatre
 MUS 203: American Music
 MUS 220: Music Theory II & MUS 225: Aural Skills II



[AA-ASC-RTF; CIP Code 240101]

Associate in Arts (A.A.) – Transfer

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

Program Outcomes

Student completing this option will:

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

Program Contact

Michael Wolverton, Instructor I,
mwolvert@rcsj.edu

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

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

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT ___ Mathematics elective ³	3–4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> HIS 101 History of Western Civilization I ²	3
<input type="checkbox"/> COM 217 Applied Media Aesthetics	3
	<hr/> 15–16

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT ___ Mathematics elective ³	3–4
<input type="checkbox"/> ART 101 Art Appreciation I or	
<input type="checkbox"/> MUS 101 Music Appreciation I	3
<input type="checkbox"/> HIS 102 History of Western Civilization II ²	3
<input type="checkbox"/> COM 216 Foundations of Media Production	3
	<hr/> 15–16

SECOND YEAR – Fall Semester

<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> ___ Lab Science elective ¹	4
<input type="checkbox"/> SOC 101 Principles of Sociology	3
<input type="checkbox"/> ___ Global and Cultural Awareness elective	3
<input type="checkbox"/> COM 212 TV History and Appreciation	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> ___ Lab Science elective ¹	4
<input type="checkbox"/> PHI 101 Introduction to Philosophy	3
<input type="checkbox"/> ___ Humanities - Broad-Based (HUP) elective ¹	3
<input type="checkbox"/> HPE ___ Health and Physical Education elective	1–3
<input type="checkbox"/> COM 210 Film History and Appreciation	3
	<hr/> 14–16

TOTAL MINIMUM CREDITS: 60

Program Notes

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

² Students may substitute another history elective for these courses.

Please see your academic advisor for additional details.

³ MAT 101, MAT 102, MAT 115 suggested

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



After completing the 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.

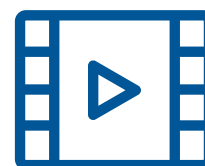
Radio, Television and Film 3+1

THIRD YEAR — Fall Semester

- ☐ COM 310 TV Production I
- ☐ COM 319 Screenwriting I
- ☐ Free Elective (Literature Required)
- ☐ Free Elective
- ☐ Free Elective

3
3
3
3
3

15



Spring Semester

- ☐ COM 312 Film Production I
- ☐ COM 317 The Movie Industry
- ☐ Free Elective
- ☐ Free Elective
- ☐ Free Elective

3
3
3
3
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

Producer, Director, Journalist, Editor

Questions?

About 3+1:

Stephen Sweeney, 3+1 Assistant Director,
ssweeney1@rcsj.edu

About the program:

Michael Wolverton, mwolvert@rcsj.edu

RCSJ.edu/3plus1



DIVISION OF Education & Humanities

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

RCSJ.edu/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, Whole 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.



[AA-ASC; CIP Code 240101]

Associate in Arts (A.A.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

✦ 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.A.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT ____ Mathematics Elective ¹	3–4
<input type="checkbox"/> ____ Social Science General Education Elective	3
<input type="checkbox"/> ____ Humanities General Education Elective	3
<input type="checkbox"/> ____ History General Education Elective	3
	<hr/> 15–16

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> ____ Humanities General Education Elective	3
<input type="checkbox"/> ____ Social Science General Education Elective	3
<input type="checkbox"/> ____ Free Elective	3
<input type="checkbox"/> ____ Free Elective ¹	3
	<hr/> 15

SECOND YEAR – Fall Semester

<input type="checkbox"/> ____ Lab Science Elective ¹	4
<input type="checkbox"/> ____ Humanities Elective	3
<input type="checkbox"/> ____ Free Elective ¹	3
<input type="checkbox"/> ____ Global and Cultural Awareness Gen Ed Elective ¹	3
<input type="checkbox"/> ____ Free Elective ¹	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> ____ History Elective	4
<input type="checkbox"/> ____ English Elective	3
<input type="checkbox"/> ____ Free Elective ¹	3
<input type="checkbox"/> ____ Free Elective ¹	3
	<hr/> 2–3
	<hr/> 14–15

TOTAL MINIMUM CREDITS: 60

Program Notes

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



Online Option



[AA-ASC-HST; CIP Code 240101]

Associate in Arts (A.A.) Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contacts

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

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

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: History Option, A.A.

FIRST YEAR — Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT ___ Mathematics General Education Elective ¹	3-4
<input type="checkbox"/> ___ Social Science General Education Elective ¹	3
<input type="checkbox"/> ___ Humanities General Education Elective ¹	3
<input type="checkbox"/> ___ History General Education Elective ¹	3
	<hr/> 15-16

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> ___ Humanities General Education Elective ¹	3
<input type="checkbox"/> ___ Social Science General Education Elective ¹	3
<input type="checkbox"/> ___ Program Elective ^{1,3}	3
<input type="checkbox"/> ___ Program Elective ^{1,3}	3
	<hr/> 15

SECOND YEAR — Fall Semester

<input type="checkbox"/> ___ Lab Science General Elective ¹	4
<input type="checkbox"/> ___ Humanities Elective ¹	3
<input type="checkbox"/> ___ Program Elective ^{1,3}	3
<input type="checkbox"/> ___ Global and Cultural Awareness Gen Ed Elective ^{1,2}	3
<input type="checkbox"/> ___ Program Elective ^{1,3}	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> ___ Program Elective ^{1,3}	3
<input type="checkbox"/> ___ English Elective ¹	3
<input type="checkbox"/> ___ Program Elective ^{1,3}	3
<input type="checkbox"/> ___ Free Elective ¹	2-3
	<hr/> 14-15

TOTAL MINIMUM CREDITS: 60

Program Notes

¹ Students should contact their advisors to clarify 4-year degree transfer requirements and refer to the College catalog for course pre-requisites

² GEO 102 Cultural Geography recommended

³ Program Option Electives

HIS 101 History of Western Civilization I

HIS 102 History of Western Civilization II

HIS 103 History of the United States I

HIS 104 History of the United States II

HIS 107 African American History

HIS 205 World History I

HIS 206 World History II

POL 101 American Federal Government

POL 103 Introduction to Political Science

POL 201 Introduction to International Politics

POL 206 Introduction to Comparative Politics



[AA-ASC-PHI; CIP Code 24.0101]

Associate in Arts (A.A.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

Arts and Sciences: Philosophy Option, A.A.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT ____ Mathematics Elective ¹	3–4
<input type="checkbox"/> ____ Social Science General Education Elective ¹	3
<input type="checkbox"/> PHI 101 Introduction to Philosophy	3
<input type="checkbox"/> ____ History General Education Elective ¹	3
	<hr/> 15–16

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> ____ Humanities General Education Elective ¹	3
<input type="checkbox"/> ____ Social Science General Education Elective ¹	3
<input type="checkbox"/> ____ Program Elective ^{1,2}	3
<input type="checkbox"/> ____ Free Elective ¹	3
	<hr/> 15

SECOND YEAR – Fall Semester

<input type="checkbox"/> ____ Lab Science Elective ¹	4
<input type="checkbox"/> ____ Humanities General Education Elective ¹	3
<input type="checkbox"/> ____ Program Elective ^{1,2}	3
<input type="checkbox"/> ____ Global and Cultural Awareness Gen Ed Elective ¹	3
<input type="checkbox"/> ____ Program Elective ^{1,2}	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> ____ Program Elective ^{1,2}	3
<input type="checkbox"/> ____ English Elective ¹	3
<input type="checkbox"/> ____ Program Elective ^{1,2}	3
<input type="checkbox"/> ____ Free Elective ¹	2–3
	<hr/> 14–15

TOTAL MINIMUM CREDITS: 60

Program Notes

¹ Students should contact their advisors to clarify 4-year degree transfer requirements and refer to the College catalog for course pre-requisites.

² Program Electives

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

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



[AS-EDU; CIP Code 13.0101]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

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

Education, A.S.

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

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> PSY 212 Adolescent Psychology OR PSY 213 Child Psychology ⁷	3
<input type="checkbox"/> EDU 205 History of American Education	3
<input type="checkbox"/> HIS ___ U.S. History Elective ¹	3
<input type="checkbox"/> SOC 102 Sociology of the Family	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> GEO 102 Cultural Geography	3
<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> EDU 105 Educational Technology	1
<input type="checkbox"/> ___ General Education Lab Science Elective ²	4
<input type="checkbox"/> ART 101 Art Appreciation I OR MUS 101 Music Appreciation I ³	3
	<hr/> 14

SECOND YEAR – Fall Semester

<input type="checkbox"/> ___ General Education Lab Science Elective ²	4
<input type="checkbox"/> COM 225 Why We Write: Writing for Elementary Students	3
<input type="checkbox"/> SOC 110 Cultural Anthropology	3
<input type="checkbox"/> PSY 203 Educational Psychology	3
<input type="checkbox"/> MAT ___ General Education Mathematics Elective ⁵	3-4
	<hr/> 16-17

Spring Semester

<input type="checkbox"/> ENG LIT English Literature Elective ⁴	3
<input type="checkbox"/> EDUC 238 Disability as Diversity	3
<input type="checkbox"/> SPE 101 Oral Communications	3
<input type="checkbox"/> MAT ___ General Education Mathematics Elective ⁵	3-4
<input type="checkbox"/> EDU 215 & 216 Principles and Pedagogies in the Inclusive Classroom & Seminar OR EDU 220 Foundations of Inclusive Education ⁶	3
	<hr/> 15-16

TOTAL MINIMUM CREDITS: 60

Program Notes

¹ Students intending to transfer to Rowan University should take HIS 103

² Students intending to transfer to Rowan University should take BIO 107 and PHY 101

³ Students intending to transfer to Rowan University should take MUS 103

⁴ Students intending to transfer to Rowan University should take ENG 103

⁵ Students intending to transfer to Rowan University should take MAT 120 and MAT 121

⁶ Students who intend to continue in the RCSJ 3+1 Inclusive Education Program or transfer to Rowan University as an Inclusive Education major should register for EDU 220. If students intend to transfer to Rowan University into either Elementary Education or Early Childhood Education programs, they should register for both EDU 215 & 216.

⁷ Students transferring to Rowan University Inclusive, Elementary, Early Childhood Education, or follow the 3+1 MUST take PSY 213.



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

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

Inclusive Education 3+1

THIRD YEAR – Fall Semester

□ EDU 301 Literacy Pedagogy I	3
□ EDU 320 Clinical Experience I in Inclusive Education	1
□ EDU 315 Working with Families & Communities	3
□ EDU 310 Differentiating Instruction in the Inclusive Classroom	2
□ EDU 330 Trauma Informed Instruction	3
□ EDU 305 Current Policy & Practice in ESL & Bilingual Edu	3
	<hr/> 15

Spring Semester

□ EDU 318 Positive Behavior Support Systems	3
□ EDU 327 Clinical Experience II in Inclusive Education	1
□ EDU 335 Social Studies Methods for the Inclusive Classroom	3
□ EDU 323 Assessment in Special & Inclusive Education	3
□ EDU 340 Science Inquiry & Methods for the Inclusive Classroom	3
□ EDU 302 Literacy Pedagogy II	2
□ EDU 345 Mathematics Strategies for the Inclusive Classroom	2
	<hr/> 17



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

Elementary School Teacher, Special Education Teacher, Secondary Teacher

Master's

College Professor, Principal, Childcare Administrator

Questions?

About 3+1:

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

About the program:

Kevin Kitchenman, Assistant Dean,
kkitchen@rcsj.edu

RCSJ.edu/3plus1



[COA-CASL; CIP Code 16.1601]

Certificate of Achievement

Students entering this certificate program must meet all NJDOE requirements for receiving the New Jersey Educational Sign Language Interpreter Certificate except for completion of the five EIP courses required by the state. These requirements include a passing score of at least 3 on the EIPA and an Associate's degree. Students will be required to meet with the Advisor for Education prior to registering for these classes.

Program Contact

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

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

Anthony Weaver, Advisor
aweaver4@rcsj.edu

Educational Sign Language Interpreter, COA

- | | |
|---|---|
| ❑ EDUC 241 Legal and Ethical Issues for Educational Interpreting | 3 |
| ❑ EDUC 244 Child Development of Educational Interpreters | 3 |
| ❑ EDUC 247 Curriculum Development and Methods of Instruction for Educational Interpreters | 3 |
| ❑ EDUC 249 Deaf-Blind Interpreting Strategies for Educational Interpreters | 3 |
| ❑ EDUC 252 Language Development for the Educational Interpreter | 3 |

TOTAL CREDITS: 15

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



[AS-HPE; CIP Code 13.1314]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Notes

¹ Chemistry, Biology or Physics recommended

Program Contact

Rob Valli, Instructor
 rvalli@rcsj.edu

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

Health, Physical Education and Recreation (HPER), A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 101 Concepts of Mathematics	3
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> HPE 136 Nutrition	3
<input type="checkbox"/> HPE 214 Principles of Health and Physical Education	3
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> ____ Lab Science Elective (CHM/BIO/PHY)	4
<input type="checkbox"/> SPE 101 Oral Communications	3
<input type="checkbox"/> HPE 211 Consumer Health Decisions	3
<input type="checkbox"/> HPE 252 Foundations of Fitness	3
	<hr/> 16

SECOND YEAR – Fall Semester

<input type="checkbox"/> BIO 105 Anatomy and Physiology I or BIO 106 Anatomy and Physiology II	4
<input type="checkbox"/> EDU 205 History of American Education	3
<input type="checkbox"/> PSY 203 Educational Psychology	3
<input type="checkbox"/> ART 101 Art Appreciation or MUS 101 Music Appreciation	3
<input type="checkbox"/> HPE 233 Safety, First Aid, and Prevention of Athletic Injuries	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> GEO 102 Cultural Geography	3
<input type="checkbox"/> PSY 212 Adolescent Psychology	3
<input type="checkbox"/> HPE 245 Motor Development and Motor Learning	3
<input type="checkbox"/> HPE 257 Pedagogy & Instructional Practices in Health & Physical Education	3
<input type="checkbox"/> HPE ____ elective	1-3
	<hr/> 13

TOTAL MINIMUM CREDITS: 60

Program Notes

HPE 205 Technology in Health & Physical Education is recommended for transfer to Rowan University.



[COA-CADP; CIP Code 090702]

Certificate of Achievement

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

Program Contacts

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

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

Anthony Weaver, Advisor
aweaver4@rcsj.edu

Neurodiversity and Inclusion, COA

<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> PSY 213 Child Psychology	3
<input type="checkbox"/> PSY 203 Educational Psychology	3
<input type="checkbox"/> EDU 130 Human Exceptionality	3
<input type="checkbox"/> EDU 207 Foundational Practices: Supporting Children Using the Positive Behavior Support System	3
<input type="checkbox"/> EDU 218 Foundations of Trauma Informed Practices that Support Social Emotional Development	3

TOTAL CREDITS: 18

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



DIVISION OF Nursing & Health Professions

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

RCSJ.edu/Nursing

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.



[COA-CACC; CIP Code 510801]

Certificate of Achievement

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

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

Please note:

Beginning in fall of 2020, the CCMA program has a revised curriculum. Students may apply through the selective admission process located on the College web site. The program will require 29 credits and can be completed in two semesters. The program is eligible for Financial Aid for those who qualify. Additional information about the selective admissions process can be found at RCSJ.edu/gc/SelectiveAdmissions.

Program Contact

Mr. Nickolas Raddi, Academic Advisor
 (856) 681-6251, nraddi@rcsj.edu

Majors: Health Science and accepted Nursing majors for students **with last names between A-K**, Exercise Science, 3+1: Exercise Science

Madeline Helmbrecht, Academic Advisor
 (856) 468-5000 x6473, mhelmbre@rcsj.edu

Majors: Health Science, Nutrition, and accepted Nursing majors for students **with last names between L-Z**, Nutrition

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

Certified Clinical Medical Assistant (CCMA), COA

First Semester

<input type="checkbox"/> CMA 101 Foundations in Medical Assisting	3
<input type="checkbox"/> CMA 107 Medical Assistants in Practice Lab I	1
<input type="checkbox"/> CMA 103 Structure of the Human Body I	2
<input type="checkbox"/> ALH 140 Biomedical Ethics	3
<input type="checkbox"/> NTR 101 Nutrition for Healthcare Providers	3
<input type="checkbox"/> HPE 105 Healthcare Provider Emergency Response with BLS Certification	1
	<hr/> 13

Second Semester

Part A: Ten weeks

<input type="checkbox"/> CMA 104 Structure of the Human Body II	2
<input type="checkbox"/> CMA 108 Medical Assistants in Practice Lab II	1
<input type="checkbox"/> CMA 110 Pharmacology in Medical Assisting	1
<input type="checkbox"/> CMA 114 Medical Assisting Front Office Procedures	2
<input type="checkbox"/> CMA 118 Fundamentals of ECG/EKG	3
<input type="checkbox"/> CMA 125 Fundamentals of Phlebotomy	3
	<hr/> 12

Part B: Five weeks

<input type="checkbox"/> CMA 120 ECG/EKG Clinical	1
<input type="checkbox"/> CMA 128 Phlebotomy Clinical	1
<input type="checkbox"/> CMA 131 CCMA Capstone Experience	2
	<hr/> 16

TOTAL CREDITS: 29



[AAS-DMS; CIP Code 51.0910]

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

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

Special Program Admission Requirements

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

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

A minimum grade of "C" is required in all DMS, BIO, ALH, and PHY courses. Students must maintain a Cumulative Grade Point Average (GPA) of 2.0 to progress in the DMS program. *Refer to the course description section of this catalog for prerequisite/co-requisite course requirements.

Program Contact

Brooke Malloy, M.A., Counseling Advisor,
 Selective Admission Programs
bmalley1@rcsj.edu

Diagnostic Medical Sonography (DMS), A.A.S.

FIRST YEAR — Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 105 Anatomy and Physiology I*	4
<input type="checkbox"/> PHY 103 General Physics I	4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> DMS 101 Intro. to Med. Imaging	1
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
<input type="checkbox"/> ALH 102 Medical Terminology	3
<input type="checkbox"/> ____ Social Science elective	3
<input type="checkbox"/> DMS 117 Ultrasound Physics I	2
<input type="checkbox"/> ALH 104 Patient Care	1
	<hr/> 16

Summer Semester

<input type="checkbox"/> DMS 113 Cross Section Anatomy	2
<input type="checkbox"/> DMS 126 Intro. to Clinical Practicum and Scan Lab (10 weeks)	2
	<hr/> 4

Summer Semester

<input type="checkbox"/> DMS 105 Abdominal Sonography I	2
<input type="checkbox"/> DMS 126 Intro. to Clinical Practicum (continuation)	
	<hr/> 2

SECOND YEAR — Fall Semester

<input type="checkbox"/> DMS 201 Sonographic Interpretations I	2
<input type="checkbox"/> DMS 203 Clinical Practicum I	3
<input type="checkbox"/> DMS 209 OB/GYN Sonography I	3
<input type="checkbox"/> DMS 106 Abdominal Sonography II	2
<input type="checkbox"/> ____ Humanities elective	3
	<hr/> 13

Spring Semester

<input type="checkbox"/> DMS 226 Ultrasound Physics II	1
<input type="checkbox"/> DMS 202 Sonographic Interpretations II	2
<input type="checkbox"/> DMS 204 Clinical Practicum II	3
<input type="checkbox"/> DMS 222 Vascular Ultrasound	3
<input type="checkbox"/> DMS 210 OB/GYN Sonography II	3
<input type="checkbox"/> HPE ____ Health and Physical Education elective	1
	<hr/> 13

Summer Semester

<input type="checkbox"/> DMS 221 Seminars in Ultrasound	1
<input type="checkbox"/> DMS 208 Small Parts Scanning	1
<input type="checkbox"/> DMS 205 Clinical Practicum III	1
	<hr/> 3

TOTAL CREDITS: 66

Program Notes

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

Diagnostic Medical Sonography continued

Program Goals

The DMS program will:

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

Places of Employment and Outlook

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

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

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

Graduate Outcomes

Graduates of the program will:

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

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

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



[AS-EXS; CIP Code 31.0505]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

- Analyze and explain how the human body responds to various types of physical activities.
- Develop health and fitness programs for individuals with diverse health backgrounds and needs that involve proper demonstration and instruction of a variety of exercises.
- Demonstrate basic CPR and first aid techniques.
- Identify general nutritional needs of individuals and how nutrition impacts exercise and athletic performance.

Program Contact

Timothy Schmitz, Assistant Professor
tschmitz@rcsj.edu

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

Exercise Science, A.S.

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

FIRST YEAR – Fall Semester

□ ENG 101 English Composition I	3
□ BIO 101 General Biology	4
□ HPE 240 Introduction to Health and Physical Education	3
□ PSY 101 General Psychology	3
	<hr/> 13

Spring Semester

□ ENG 102 English Composition II	3
□ BIO 105 Anatomy and Physiology I	4
□ HPE 136 Nutrition	3
□ MAT ____ Math General Education Elective ⁴	3
□ HPE 170 Stress Management ² or BIO 102 General Biology II ³	3-4
	<hr/> 16-17

SECOND YEAR – Fall Semester

□ BIO 106 Anatomy and Physiology II	4
□ SPE 101 Oral Communications	3
□ HPE 245 Motor Development and Motor Learning	3
□ Humanities General Education Elective (ART 101 or MUS 101 recommended)	3
□ HPE 252 Foundations of Fitness ² or CHM 111 General Chemistry I ³	3-4
	<hr/> 15-16

Spring Semester

□ HPE 233 Safety, First Aid and the Care and Prevention of Athletic Injuries	3
□ HPE 211 Consumer Health Decisions	3
□ SOC 101 Principles of Sociology or SOC 102 Sociology of the Family ¹	3
□ HPE 265 Fitness Assessment and Exercise Prescription	3
□ PSY 206 Psychopharmacology ² or HPE 270 Essentials of Personal Training ³	1-3
	<hr/> 13-15

TOTAL MINIMUM CREDITS: 60

Program Notes

¹ Recommended for transfer to Rowan University

² Recommended for transfer to Rowan University B.S. Public Health and Wellness program

³ Recommended for transfer to Rowan University B.S. Exercise Science or Fitness Management 3+1 program

⁴ MAT 103 recommended



After completing the Exercise Science, 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.

Fitness Management 3+1

THIRD YEAR — Fall Semester

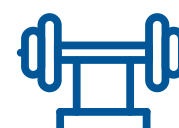
<input type="checkbox"/> HPE 300 Kinesiology	3
<input type="checkbox"/> PSY 300 Introduction to Sport & Exercise Psychology	3
<input type="checkbox"/> Business Elective	3
<input type="checkbox"/> HPE 170 or Free Elective	3
<input type="checkbox"/> Free Elective	3
	<hr/>
	15

Spring Semester

<input type="checkbox"/> HPE 305 Exercise Physiology with Laboratory	4
<input type="checkbox"/> HPE 238 Principles of Coaching	2
<input type="checkbox"/> ICC 211 Internship Career Connections	3
<input type="checkbox"/> PSY 308 Social Psychology of Sport or 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

Exercise Physiologist, Recreation Teacher

Master's

Physical Therapist, Athletic Trainer

Questions?

About 3+1:

Stephen Sweeney, 3+1 Assistant Director,
ssweeney1@rcsj.edu

About the program:

Timothy Schmitz, tschmitz@rcsj.edu

RCSJ.edu/3plus1



[AAS-HEA; CIP Code 51.0000]

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

This program of study is designed to enhance career opportunities in various health disciplines. There are two pathways students can take to earn a Health Science degree. Students who have earned a nationally recognized certificate or license can complete the remaining degree program electives to earn a degree in Health Science. Students interested in pursuing one of the following RCSJ Nursing & Health Professions Pathways will automatically be placed in the Health Science degree program: Certified Clinical Medical Assistant, Diagnostic Medical Sonography, LPN-RN Track, Nuclear Medicine Technology, Nursing, and Physical Therapist Assistant.

Program Learning Outcomes

Students who have completed the program will be able to:

- Demonstration of oral and written communication to inform health knowledge to the public.
- Interpretation of ethical principles and values in the healthcare setting.
- Demonstration of understanding of the relationship between disease prevention and health promotion.

Program Contact

Mr. Nickolas Raddi, Academic Advisor
(856) 681-6251, nraddi@rcsj.edu

Majors: Health Science and accepted Nursing majors for students **with last names between A-K**, Exercise Science, 3+1: Exercise Science

Madeline Helmbrecht, Academic Advisor
(856) 468-5000 x6473, mhelmbre@rcsj.edu

Majors: Health Science, Nutrition, and accepted Nursing majors for students **with last names between L-Z**, Nutrition

Health Science, A.A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I or ENG 101E Enhanced College Composition	3-4
<input type="checkbox"/> BIO 105 Anatomy and Physiology I	4
<input type="checkbox"/> MAT ____ See Math Course Bank ³	3-4
<input type="checkbox"/> NTR 101 Nutrition for Health Professions	3
<input type="checkbox"/> ALH 102 Medical Terminology	3
	<hr/> 16-18

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
<input type="checkbox"/> ____ See General Program Course Bank ²	3
<input type="checkbox"/> ALH 140 Biomedical Ethics	3
	<hr/> 16

SECOND YEAR – Semester

<input type="checkbox"/> ____ Health Science Course Bank ¹	12
---	----

Spring Semester

<input type="checkbox"/> ____ General Program Course Bank ²	16
--	----

TOTAL CREDITS: 60

Course Banks

¹ Health Science Course Bank

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

² General Program Course Bank

ART 101, ART 131, ASL 101, BIO 101, BIO 107, BIO 215, BUS 231, CHM 107, CHM 111, CHM 112, CIS 102, ENG 240, ENG 241, ENG 248, PHI 101, PHI 104, PHI 150, PHY 101, PHY 103, PHY 104, PSY 211, PSY 212, PSY 213, PSY 230, SOC 101, SOC 102, SOC 104, SPA 101, SPA 102, SPE 101

³ Math Course Bank

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

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

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

Program Notes

Please keep in mind that the following are **selective admission** programs.

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

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



[AAS-DMS; CIP Code 51.0910]

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

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

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

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

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

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

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

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

Program Contact

Mr. Nickolas Raddi, Academic Advisor
 (856) 681-6251, nraddi@rcsj.edu

Majors: Health Science and accepted Nursing majors for students **with last names between A-K**, Exercise Science, 3+1: Exercise Science

Madeline Helmbrecht, Academic Advisor
 (856) 468-5000 x6473, mhelmbre@rcsj.edu

Majors: Health Science, Nutrition, and accepted Nursing majors for students **with last names between L-Z**, Nutrition

Health Science — Diagnostic Medical Sonography, A.A.S.

FIRST YEAR — Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 105* Anatomy and Physiology I	4
<input type="checkbox"/> PHY 103 General Physics I	4
<input type="checkbox"/> DMS 101 Intro. to Med. Imaging	1
	<hr/> 12

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
<input type="checkbox"/> ALH 102 Medical Terminology	3
<input type="checkbox"/> DMS 117 Ultrasound Physics I	2
<input type="checkbox"/> ALH 104 Patient Care	1
	<hr/> 13

Summer Semester

<input type="checkbox"/> DMS 113 Cross Section Anatomy	2
<input type="checkbox"/> DMS 126 Intro. to Clinical Practicum and Scan Lab (10 weeks)	2
	<hr/> 4

Summer Semester

<input type="checkbox"/> DMS 105 Abdominal Sonography I	2
<input type="checkbox"/> DMS 126 Intro. to Clinical Practicum (continuation)	2

SECOND YEAR — Fall Semester

<input type="checkbox"/> DMS 201 Sonographic Interpretations I	2
<input type="checkbox"/> DMS 203 Clinical Practicum I	3
<input type="checkbox"/> DMS 209 OB/GYN Sonography I	3
<input type="checkbox"/> DMS 106 Abdominal Sonography II	2
<input type="checkbox"/> PSY 101 General Psychology	3
	<hr/> 13

Spring Semester

<input type="checkbox"/> DMS 226 Ultrasound Physics II	1
<input type="checkbox"/> DMS 202 Sonographic Interpretations II	2
<input type="checkbox"/> DMS 204 Clinical Practicum II	3
<input type="checkbox"/> DMS 222 Vascular Ultrasound	3
<input type="checkbox"/> DMS 210 OB/GYN Sonography II	3
<input type="checkbox"/> HPE ____ HPE elective	1
	<hr/> 13

Summer Semester

<input type="checkbox"/> DMS 221 Seminars in Ultrasound	1
<input type="checkbox"/> DMS 208 Small Parts Scanning	1
<input type="checkbox"/> DMS 205 Clinical Practicum III	1
	<hr/> 3

TOTAL MINIMUM CREDITS: 60

Program Notes

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



[AAS-HEA; CIP Code 51.0000]

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

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

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

Program Contact

Mr. Nickolas Raddi, Academic Advisor
(856) 681-6251, nraddi@rcsj.edu

Majors: Health Science and accepted Nursing majors for students **with last names between A-K**, Exercise Science, 3+1: Exercise Science

Madeline Helmbrecht, Academic Advisor
(856) 468-5000 x6473, mhelmbre@rcsj.edu

Majors: Health Science, Nutrition, and accepted Nursing majors for students **with last names between L-Z**, Nutrition

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

FIRST YEAR — Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 105 Anatomy and Physiology I	4
<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> PSY 101 General Psychology	3
	<hr/> 14

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
<input type="checkbox"/> PHY 103 General Physics	4
<input type="checkbox"/> ALH 107 Cross Sectional Anatomy	2
	<hr/> 13

SECOND YEAR — Fall Semester, Spring Semester

<input type="checkbox"/> See Course Banks for electives	33
	<hr/> 33

TOTAL CREDITS: 60

COURSE BANKS

¹ Health Science Course Bank

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

² General Program Course Bank

ART 101, ART 131, ASL 101, BIO 101, BIO 107, BIO 215, BUS 231, CHM 107, CHM 111, CHM 112, CIS 102, ENG 240, ENG 241, ENG 248, PHI 101, PHI 104, PHI 150, PHY 101, PHY 103, PHY 104, PSY 211, PSY 212, PSY 213, PSY 230, SOC 101, SOC 102, SOC 104, SPA 101, SPA 102, SPE 101

³ Math Course Bank

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

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

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

Program Notes

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

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



[AAS-HEA; CIP Code 510000]

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

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

Program Notes

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

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

Program Contact

Mr. Nickolas Raddi, Academic Advisor
(856) 681-6251, nraddi@rcsj.edu

Majors: Health Science and accepted Nursing majors for students **with last names between A-K**, Exercise Science, 3+1: Exercise Science

Madeline Helmbrecht, Academic Advisor
(856) 468-5000 x6473, mhelmbre@rcsj.edu

Majors: Health Science, Nutrition, and accepted Nursing majors for students **with last names between L-Z**, Nutrition

Health Science — Nursing, A.A.S.

FIRST YEAR — Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 105 Anatomy and Physiology I	4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> HPE 136 Nutrition	3
	<hr/>
	13

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
<input type="checkbox"/> SOC 101 Principles of Sociology	3
<input type="checkbox"/> PSY 211 Psychology of Human Development	3
<input type="checkbox"/> ____ Humanities elective	3
	<hr/>
	16

SECOND YEAR- Fall Semester

<input type="checkbox"/> BIO 215 Microbiology	4
<input type="checkbox"/> Health Science Course Bank Elective ¹	9
<input type="checkbox"/> General Program Course Bank Elective ²	3
	<hr/>
	16

Spring Semester

<input type="checkbox"/> Health Science Course Bank Elective ¹	8
<input type="checkbox"/> General Program Course Bank Elective ²	7
	<hr/>
	15

TOTAL CREDITS: 60

¹ Health Science Course Bank

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

² General Program Course Bank

ART 101, ART 131, ASL 101, BIO 101, BIO 215, BUS 231, CHM 107, CHM 111, CHM 112, CIS 102, ENG 240, ENG 241, ENG 248, PHI 101, PHI 104, PHI 150, PHY 101, PHY 103, PHY 104, PSY 211, PSY 212, PSY 213, PSY 230, SOC 101, SOC 102, SOC 104, SPA 101, SPA 102, SPE 101

³ Math Course Bank

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

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

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



[AAS-HEA; CIP Code 510000]

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

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

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

Program Contact

Mr. Nickolas Raddi, Academic Advisor
(856) 681-6251, nraddi@rcsj.edu

Majors: Health Science and accepted Nursing majors for students **with last names between A-K**, Exercise Science, 3+1: Exercise Science

Madeline Helmbrecht, Academic Advisor
(856) 468-5000 x6473, mhelmbre@rcsj.edu

Majors: Health Science, Nutrition, and accepted Nursing majors for students **with last names between L-Z**, Nutrition

Health Science — Physical Therapist Assistant, A.A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 105 Anatomy and Physiology I	4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> MAT 115 College Geometry	3
	<hr/> 13

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
<input type="checkbox"/> Health Science Course Bank Elective ¹	9
	<hr/> 16

SECOND YEAR – Fall Semester

<input type="checkbox"/> Health Science Course Bank Elective ¹	16
	<hr/> 16

Spring Semester

<input type="checkbox"/> Health Science Course Bank Elective ¹	15
	<hr/> 15

TOTAL CREDITS: 60

Program Notes

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

¹ Health Science Course Bank

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

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

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

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



[AAS-HEA; CIP Code 51.0000]

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

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

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

Program Contact

Mr. Nickolas Raddi, Academic Advisor
(856) 681-6251, nraddi@rcsj.edu

Majors: Health Science and accepted Nursing majors for students **with last names between A-K**, Exercise Science, 3+1: Exercise Science

Madeline Helmbrecht, Academic Advisor
(856) 468-5000 x6473, mhelmbre@rcsj.edu

Majors: Health Science, Nutrition, and accepted Nursing majors for students **with last names between L-Z**, Nutrition

Health Science — Respiratory Therapy, A.A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 107 Human Biology	4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> MAT 105 Intermediate Algebra	3
	<hr/> 14

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT 103 Statistics	3
<input type="checkbox"/> ALH 102 Medical Terminology	3
<input type="checkbox"/> SOC 130 Society, Ethics & Technology	3
<input type="checkbox"/> CHM 111 General Chemistry I	4
	<hr/> 16

SECOND YEAR – Fall Semester

<input type="checkbox"/> BIO 105 Anatomy and Physiology I	4
<input type="checkbox"/> SOC 101 Principles of Sociology	3
<input type="checkbox"/> ALH 140 Biomedical Ethics	3
<input type="checkbox"/> PSY 211 Psychology of Human Development	3
<input type="checkbox"/> Humanities Elective	3
	<hr/> 16

Spring Semester

<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
<input type="checkbox"/> HPE 105 Healthcare Provider Emergency Response w/BLS Certification	1
<input type="checkbox"/> ALH 104 Patient Care	1
<input type="checkbox"/> BIO 215 Microbiology	4
<input type="checkbox"/> Free Electives	4
	<hr/> 14

TOTAL CREDITS: 60

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



[AAS-NMT; CIP Code 51.0905]

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

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

The program is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology and the New Jersey Department of Environmental Protection. Upon successful completion of the NMT program requirements, graduates are eligible to apply for Board Certification through national certifying agencies: The American Registry of Radiologic Technologists and the Nuclear Medicine Technology Certification Board. NMT students must complete the minimum number of required hours of clinical instruction, which are scheduled the second year of the program in collaboration with clinical affiliates. Clinical hours occur during all College sessions.

Program Contact

Mr. Nickolas Raddi, Academic Advisor
(856) 681-6251, nraddi@rcsj.edu

Majors: Health Science and accepted Nursing majors for students **with last names between A-K**, Exercise Science, 3+1: Exercise Science

Madeline Helmbrecht, Academic Advisor
(856) 468-5000 x6473, mhelmbre@rcsj.edu

Majors: Health Science, Nutrition, and accepted Nursing majors for students **with last names between L-Z**, Nutrition

Brooke Malloy, M.A., Counseling Advisor,
Selective Admission Programs
bmalley1@rcsj.edu

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

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 105 Anatomy and Physiology I	4
<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> PSY 101 General Psychology	3
	<hr/> 14

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
<input type="checkbox"/> PHY 103 General Physics	4
<input type="checkbox"/> ALH 107 Cross Sectional Anatomy	2
	<hr/> 13

Summer Session I (first 7 weeks)

<input type="checkbox"/> NMT 106 Radiation Safety and Biology	1
<input type="checkbox"/> NMT 107 Radiation Physics	2
	<hr/> 3

Summer Session (second 7 weeks)

<input type="checkbox"/> NMT 114 Clinical Imaging Procedures I	2
<input type="checkbox"/> NMT 116 Basic Nuclear Medicine Procedures	2
	<hr/> 4

SECOND YEAR – Fall Semester

<input type="checkbox"/> NMT 205 Clinical Internship I	10
<input type="checkbox"/> NMT 210 Clinical Imaging Procedures II	1
<input type="checkbox"/> NMT 215 Radiopharmacy	2
	<hr/> 13

Spring Semester

<input type="checkbox"/> NMT 227 Clinical Internship II	10
<input type="checkbox"/> NMT 230 Nuclear Instrumentation and Statistics	2
<input type="checkbox"/> NMT 233 Clinical Imaging Procedures III	1
	<hr/> 13

TOTAL CREDITS: 60

Program Learning Objectives

Students who complete this program will be able to:

1. Work effectively as a member of a healthcare team by respecting diversity, communicating effectively, and providing patient care in a competent, ethical, and compassionate manner.
2. Demonstrate knowledge by applying entry level competencies of clinical imaging procedures, instrumentation, radiopharmacy and radiation safety and biology in the clinical environment.
3. Recognize and articulate the importance of continued personal and professional growth to enhanced quality of life and maintain high professional standards, in the field of Nuclear Medicine Technology.

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

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

Program Information

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

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

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

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

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

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



[AAS-NURS-LPN; CIP Code 51.3801]

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

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 take 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 the Accreditation Commission for Education in Nursing (ACEN).

Program Learning Outcomes

Graduates of the Nursing program will:

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

Program Contact

Brooke Malloy, M.A., Counseling Advisor,
 Selective Admission Programs
bmalley1@rcsj.edu

Nursing LPN-RN, A.A.S.

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

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 105 Anatomy and Physiology I	4
<input type="checkbox"/> PSY 101 General Psychology I	3
	<hr/> 10

Winter Semester

<input type="checkbox"/> NURS 115 LPN to RN Track	3
<input type="checkbox"/> Upon completion of NURS 115, students will be awarded 4 credits for LPN license	4

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
<input type="checkbox"/> NURS 120 Nursing II	9
<input type="checkbox"/> NURS 121 Nursing II Lab	1
	<hr/> 17

SECOND YEAR – Fall Semester

<input type="checkbox"/> BIO 215 Microbiology	4
<input type="checkbox"/> NURS 230 Nursing III	8
<input type="checkbox"/> NURS 231 Nursing III Lab	1
	<hr/> 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
	<hr/> 12

TOTAL CREDITS: 60

Program Information

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

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

Employment Opportunities

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

Nursing LPN-RN, A.A.S., continued

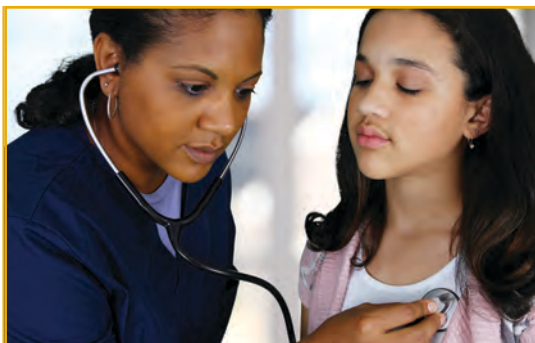
Special Admission Requirements

- Nursing is a selective admission program. Students who may qualify for the program must have graduated from an accredited LPN program and hold a valid unencumbered LPN license. Students must be accepted to the program prior to registering for any NURS classes.
- Please contact the Enrollment Services Office for an admission packet.
- Clinical agencies require criminal history background checks (CHBC) for all individuals engaged in patient care. All students must undergo a CHBC upon acceptance into the Nursing Program. CHBC results are sent to the clinical agencies, who have the sole discretion to decide if the student may engage in patient care at the agency. If a student is denied the opportunity to participate in the clinical agency as a result of the findings of the CHBC, the student will be dismissed from the Nursing Program.
- Students must satisfactorily complete all 100-level nursing courses to progress to 200-level courses. Students who do not meet prerequisite and co-requisite course requirements, and/or grade requirements will not be able to progress in the Nursing program.
- Students must complete the Nursing program in three (3) years from the start of the first Nursing course.
- Students who do not complete the program within three (3) years must wait three (3) years before reapplying to the Nursing program.
- A minimum grade of "C+" is required in all Nursing and Science courses.

Highlights

Since 2000, the NCLEX-RN pass rate has been greater than 90 percent. To learn more about the program or attend an information session, please visit RCSJ.edu/gc/SelectiveAdmissions.

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



[AAS-NURS; CIP Code 51.3801]

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

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 take 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 the Accreditation Commission for Education in Nursing (ACEN).

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](https://rcsj.edu/gc/SelectiveAdmissions).

Program Contact

Brooke Malloy, M.A., Counseling Advisor,
Selective Admission Programs
bmalley1@rcsj.edu

Nursing (NURS), A.A.S.

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

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 105 Anatomy and Physiology I	4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> NURS 110 Nursing I	6
<input type="checkbox"/> NURS 111 Nursing I Lab	1
	<hr/> 17

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
<input type="checkbox"/> NURS 120 Nursing II	9
<input type="checkbox"/> NURS 121 Nursing II Lab	1
	<hr/> 17

SECOND YEAR – Fall Semester

<input type="checkbox"/> BIO 215 Microbiology	4
<input type="checkbox"/> NURS 230 Nursing III	8
<input type="checkbox"/> NURS 231 Nursing Lab III	1
	<hr/> 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
	<hr/> 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 (3) years from the start of the first Nursing course.
- Students who do not complete the program within three (3) years must wait three (3) years before reapplying to the Nursing program.
- A minimum grade of “C+” is required in all Nursing 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

- ☐ Fine Arts Elective
- ☐ SPE 101 Oral Communication
- ☐ NURS 303 Comprehensive Health Assessment
- ☐ Broad-based Literature
- ☐ General Elective Option

3
3
3
3
3
15



Spring Semester

- ☐ NURS 305 Nursing Informatics
- ☐ NURS 308 Topics in Healthcare Ethics
- ☐ Humanities/History/Language
- ☐ MAT 103 Statistics
- ☐ Free Elective

3
3
3
3
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,
ssweeney1@rcsj.edu

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



[AS-NTR; CIP Code 19.0501]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who complete the program will be able to:

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

Program Contact

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

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

Nutrition, A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> BIO 105 Anatomy and Physiology I	4
<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> NTR 105 Introduction to Nutrition Professions	3
	<hr/> 14

Spring Semester

<input type="checkbox"/> CHM 112 General Chemistry II	4
<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> ENG 102 English Composition	3
	<hr/> 14

SECOND YEAR – Fall Semester

<input type="checkbox"/> NTR 101 Nutrition for Health Professions	3
<input type="checkbox"/> CHM 201 Organic Chemistry I	4
<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> BIO 101 General Biology I	4
<input type="checkbox"/> — — Free Elective	3
	<hr/> 17

Spring Semester

<input type="checkbox"/> SOC 110 Cultural Anthropology	3
<input type="checkbox"/> MAT 103 Statistics	3
<input type="checkbox"/> BIO 102 General Biology II	4
<input type="checkbox"/> Humanities Elective (ART 101 or MUS 101 recommended)	3
<input type="checkbox"/> HPE or ALH Elective	2-3
	<hr/> 15-16

TOTAL MINIMUM CREDITS: 60

Program Notes

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



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..



[AAS-PTA; CIP Code 51.0806]

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

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

Program Information

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

Program Contact

Brooke Malloy, M.A., Counseling Advisor,
 Selective Admission Programs
bmalley1@rcsj.edu

Physical Therapist Assistant, A.A.S.

FIRST YEAR –Summer Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 115 College Geometry	3
	<hr/> 6

Fall Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> PSY 101 General Psychology	3

Fall 1 - 7 weeks

<input type="checkbox"/> BIO 105 Anatomy and Physiology I*	4
--	---

Fall 2 - 7 weeks

<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
	<hr/> 14

Spring Semester

<input type="checkbox"/> PTA 101 Introduction to Physical Therapist Assisting	1
<input type="checkbox"/> PTA 102 Kinesiology and Measurement	6
<input type="checkbox"/> HPE 106 Health and Wellness Promotion in PT**	1
	<hr/> 8

Summer Semester

<input type="checkbox"/> PTA 105 Pathophysiology for the PTA	2
<input type="checkbox"/> PTA 107 Essential Skills I: Patient Care	4
<input type="checkbox"/> PTA 210 Orthopedics for the PTA	1
	<hr/> 7

SECOND YEAR – Fall Semester

<input type="checkbox"/> PTA 207 Essential Skills II: Biophysical Agents	4
<input type="checkbox"/> PTA 208 Neurological d/o Across the Lifespan	4
<input type="checkbox"/> PTA 209 Clinical Experience I	2
<input type="checkbox"/> PTA 216 Cardiovascular and Pulmonary PT	2
	<hr/> 12

Spring Semester

<input type="checkbox"/> PTA 229 Clinical Experience II	6
<input type="checkbox"/> PTA 239 Clinical Experience III	6
<input type="checkbox"/> PTA 240 Seminar in PTA Professionalism	1
	<hr/> 13

TOTAL MINIMUM CREDITS: 60

Program Notes

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

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

Program Learning Outcomes

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

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

Physical Therapist Assistant continued

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

6. Exhibit professional behaviors in the role as a responsible physical therapist assistant by providing safe, ethical and legal care
7. Demonstrate entry-level competency in all required intervention skills of a PTA including:
 - a. Performance of manual techniques and application of biophysical agents
 - b. Provision of transfer, gait, activities of daily living and functional training
 - c. Instruction of therapeutic exercise and of patient and care giver education, and
 - d. Progression of therapy interventions to achieve long term and short term goals
8. Communicate with patients/clients, caregivers and members of the health care team about the plan of care required in the rehabilitation process
9. Identify characteristics of pathology, patient diseases and conditions and pharmacology that will affect patient's therapy outcomes
10. Complete and report patient data collection which communicates the need and rationale for continued physical therapy intervention
11. Document a patient's progress in the health record to comply with facility and payer regulations consistent with the health care delivery system
12. Act in accordance with all emergency procedures related to the setting of practice

Special Program Admission Requirements

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

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

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

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

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

Admission Requirements

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

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

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

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

Program Goals

1. Program graduates will be entry-level prepared physical therapist assistants who are able to work under the direction and supervision of a physical therapist in a professional manner.
2. Program graduates will value life-long learning and commitment through continued education and professional development.
3. The program will prepare graduates to deliver safe, ethical, and effective physical therapy services to the diverse surrounding community.
4. Program faculty will provide instruction based on current evidence-based practice within an innovative and supportive learning environment.

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



[PRAC.CERT; 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.

End-of-Program

Student Learning Outcomes

- Graduates of the practical nursing program will report they can deliver competent care to a diverse population at a rate of 80% on the graduate survey.
- Graduates of the practical nursing program will report they communicate effectively with the healthcare team at a rate of 80% on the graduate survey.
- Graduates of the practical nursing program will report they are competent in documentation in the health care record at a rate of 80% on the graduate survey.

Program Contact

Brooke Malloy, M.A., Counseling Advisor,
 Selective Admission Programs
bmalley1@rcsj.edu

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

Practical Nursing, AC

First Semester – Fall

Part A: 7 weeks

<input type="checkbox"/> BIO 105 Anatomy & Physiology I	4
<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> PRAC 110 Practical Nursing I	4
<input type="checkbox"/> PRAC 111 Practical Nursing Lab	1

Part B: 7 weeks

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

Second Semester – Spring

Part A: 5 weeks

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

Part B: 10 weeks

<input type="checkbox"/> BIO 106 Anatomy & Physiology II	4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> PRAC 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



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.



[AS-ASC; CIP Code 24.0101]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

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

Arts and Sciences, A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> CSC 101 Introduction to Programming or CSC 111 Intermediate Programming	4
<input type="checkbox"/> MAT 107 Pre-Calculus and Mathematical Analysis	4
<input type="checkbox"/> ____ Science elective pair I (first semester) ¹	4
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT 108 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"/> ____ Social Science or Humanities General Education Elective	3
	<hr/> 17-18

SECOND YEAR – Fall Semester

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

Spring Semester

<input type="checkbox"/> ____ Science elective pair II (second semester) ¹	4
<input type="checkbox"/> ____ 200 Level STEM Elective ⁴	3-4
<input type="checkbox"/> ____ Free Elective	3-4
<input type="checkbox"/> ____ Free Elective	1-4
<input type="checkbox"/> ____ Social Science General Education elective	3
	<hr/> 14-19

TOTAL MINIMUM CREDITS: 60

Program Notes.

¹ These are the Science elective Pairs. Two pairs of science electives may be selected from the following:

If you take this course in the first semester you must take this course in the second semester
BIO 101	BIO 102
BIO 105	BIO 106
BIO 112	BIO 212
BIO 115	BIO 216
CHM 111	CHM 112
CHM 201	CHM 202
PHY 103	PHY 104
PHY 201	PHY 202

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

BIO 101, BIO 103, BIO 104, BIO 105, BIO 107, BIO 112, BIO 113, BIO 115, BIO 116, BIO 140, BIO 209, BIO 212, BIO 215, BIO 22, CHM 111, CHM 201, CHM 215, CSC 203, CSC 205, CSC 210, CSC 220, MAT 122, MAT 201, MAT 202, MAT 205, MAT 221, PHY 103, PHY 105, PHY 111, PHY 112, PHY 201, SCI 201

³ 200 level Science Elective Course must be selected from the following:

BIO 209, BIO 215, BIO 216, BIO 221, CHM 201, CHM 202, PHY 201, PHY 202

⁴ 200 Level STEM Elective Course must be selected from the following:

BIO 209, BIO 215, BIO 216, BIO 22, CHM 201, CHM 202, CSC 203, CSC 205, CSC 210, CSC 220, PHY 201, PHY 202, MAT 201, MAT 202, MAT 205, MAT 221, SCI 201



[AS-ASC-PHY; CIP Code 24.0101]

Associate in Science (A.S.) – Transfer

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

Program Learnings

Students who have completed the program will be able to:

- Understand and apply fundamental principles to the study of science overall including the health sciences
- Develop and demonstrate the basic skill set, techniques and procedures required to do laboratory work in the physics and physics-related sciences

Program Contact

Dr. Nasra Sultana, Associate Professor
nsultana@rcsj.edu

✦ 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: Physics Option, A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> PHY 121 Physics for Everyday Life or PHY 105 Modern Astronomy	4
<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> MAT 108 Calculus I	4
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> PHY 201 Physics I (calculus-based)	4
<input type="checkbox"/> CHM 112 General Chemistry II	4
<input type="checkbox"/> MAT 122 Calculus II	4
	<hr/> 15

SECOND YEAR – Fall Semester

<input type="checkbox"/> PHY 202 Physics II (calculus-based)	4
<input type="checkbox"/> MAT 221 Calculus III	4
<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> ____ Free elective	2-4
<input type="checkbox"/> SOC 130 Society and Technology	3
	<hr/> 16-18

Spring Semester

<input type="checkbox"/> MAT 205 Differential Equations	4
<input type="checkbox"/> PHY 203 Physics III (calculus-based)	4
<input type="checkbox"/> ____ Humanities elective	3
<input type="checkbox"/> ____ Social Science elective	3
	<hr/> 14

TOTAL MINIMUM CREDITS: 60

Program Notes

Students planning to transfer to Rowan University should:

1. Take a non-PHI class for the Humanities elective
2. Take a non-SOC class for the Social Science elective
3. Take PHYS 00300 Modern Physics, on Rowan University's campus in Spring semester of their second year



[AS-BIO; CIP Code 26.0101]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

Kimberly Henderson, Assistant Professor,
Biology, khender3@rcsj.edu

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

Biology, A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 101 General Biology I	4
<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> MAT 108 Calculus I	4
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 102 General Biology II	4
<input type="checkbox"/> CHM 112 General Chemistry II	4
<input type="checkbox"/> COM 105 Technical and Scientific Writing	3
	<hr/> 14

SECOND YEAR – Fall Semester

<input type="checkbox"/> CHM 201 Organic Chemistry I	4
<input type="checkbox"/> BIO 209 Ecology	4
<input type="checkbox"/> ____ Social Science elective	3
<input type="checkbox"/> ____ Free elective	1-4
<input type="checkbox"/> CSC 101 Introduction to Programming or CSC 111 Intermediate Programming	4
	<hr/> 16-19

Spring Semester

<input type="checkbox"/> CHM 202 Organic Chemistry II	4
<input type="checkbox"/> BIO 215 Microbiology or BIO 221 Cell and Molecular Biology*	4
<input type="checkbox"/> ____ Social Science or Humanities elective	3
<input type="checkbox"/> HPE ____ Health and Physical Education elective	1-3
<input type="checkbox"/> ____ Humanities elective	3
	<hr/> 15-17

TOTAL MINIMUM CREDITS: 60

Program Notes

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

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



[AS-BIO-TEC; CIP Code 26.0101]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

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

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

Program Contact

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

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

Biology: Bioscience Technologies Option, A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 101 General Biology I	4
<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> MAT 107 Pre-Calculus and Math Analysis	4
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 102 General Biology II	4
<input type="checkbox"/> CHM 112 General Chemistry II	4
<input type="checkbox"/> MAT 108 Calculus I	4
	<hr/> 15

SECOND YEAR – Fall Semester

<input type="checkbox"/> BIO 209 Ecology	4
<input type="checkbox"/> BIO 215 Microbiology	4
<input type="checkbox"/> ____ Social Science elective	3
<input type="checkbox"/> ____ Humanities elective	3
<input type="checkbox"/> BIO 105 Anatomy and Physiology I	4
	<hr/> 18

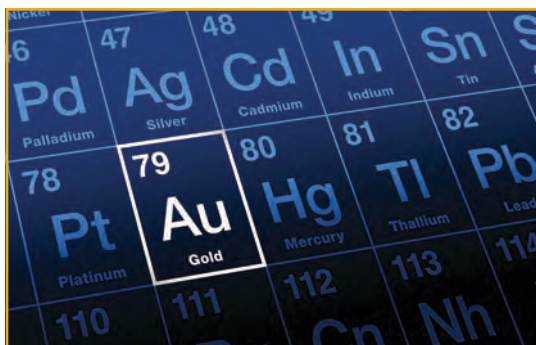
Spring Semester

<input type="checkbox"/> CHM 201 Organic Chemistry I	4
<input type="checkbox"/> BIO 221 Cell and Molecular Biology	4
<input type="checkbox"/> ____ Social Science or ____ Humanities elective	3
<input type="checkbox"/> HPE ____ HPE elective	1–3
<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
	<hr/> 16–18

TOTAL MINIMUM CREDITS: 64

Program Notes

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



[AS-CHM; 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:

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

Program Contact

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

✦ 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"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 101 General Biology I	4
<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> MAT 108 Calculus I	4
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> _____ General Education Elective ¹	3-4
<input type="checkbox"/> CHM 112 General Chemistry II	4
<input type="checkbox"/> MAT 122 Calculus II	4
<input type="checkbox"/> SPE 101 Oral Communication	3
	<hr/> 17-18

SECOND YEAR – Fall Semester

<input type="checkbox"/> CHM 201 Organic Chemistry I	4
<input type="checkbox"/> PHY 201 Physics I (calculus-based)	4
<input type="checkbox"/> _____ Humanities General Education Elective	3
<input type="checkbox"/> _____ Program Elective ²	3-4
	<hr/> 14-15

Spring Semester

<input type="checkbox"/> CHM 202 Organic Chemistry II	4
<input type="checkbox"/> PHY 202 Physics II (calculus-based)	4
<input type="checkbox"/> _____ Social Science General Education Elective OR _____ Humanities General Education Elective	3
<input type="checkbox"/> _____ Social Science General Education elective	3
	<hr/> 14

TOTAL MINIMUM CREDITS: 60

Program Notes

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

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

² Program elective courses include: MAT 221 (Calculus III), CIS 110 (Fundamentals of Programming), BIO 221 (Cell and Molecular biology), MAT 202 (Linear Algebra), CSC 101 (Introduction to Programming), or CSC 111 (Intermediate Programming)



[AS-CHM-PHA; CIP Code 40.0501]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

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

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

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> BIO 101 General Biology I	4
<input type="checkbox"/> ____ General Education Elective ¹	3–4
<input type="checkbox"/> HPE ____ Health and Physical Education Elective ²	1–3
	<hr/> 15–18

Spring Semester

<input type="checkbox"/> ENG 102 English Composition	3
<input type="checkbox"/> CHM 112 General Chemistry II	4
<input type="checkbox"/> BIO 102 General Biology II ³	4
<input type="checkbox"/> MAT 108 Calculus I	4
<input type="checkbox"/> ____ Social Science General Education Elective	3
	<hr/> 18

SECOND YEAR – Fall Semester

<input type="checkbox"/> CHM 201 Organic Chemistry I	4
<input type="checkbox"/> PHY 103 General Physics I	4
<input type="checkbox"/> BIO 105 Anatomy & Physiology I ⁴	4
<input type="checkbox"/> BIO 215 Microbiology	4
	<hr/> 16

Spring Semester

<input type="checkbox"/> CHM 202 Organic Chemistry II	4
<input type="checkbox"/> PHY 104 General Physics II ⁵	4
<input type="checkbox"/> BIO 106 Anatomy and Physiology II ⁴	4
<input type="checkbox"/> ____ Social Science or Humanities Elective	3
<input type="checkbox"/> ____ Humanities General Education Elective	3
	<hr/> 18

TOTAL MINIMUM CREDITS: 67

Program Notes

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

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

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

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

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

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



[AS-CSC; CIP Code 11.0701]

Associate in Science (A.S.) – Transfer

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

Program Contact

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

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

Computer Science, A.S.

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

FIRST YEAR – Fall Semester

<input type="checkbox"/> CSC 205 Programming in C++	4
<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 108 Calculus I	4
<input type="checkbox"/> Humanities General Education Elective	3
<input type="checkbox"/> Social Science General Education Elective	3
	<hr/> 17

Spring Semester

<input type="checkbox"/> CSC 210 Object Oriented Programming in Java	4
<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT 122 Calculus II	4
<input type="checkbox"/> PHY 201 Physics with Calculus I	4
	<hr/> 15

SECOND YEAR - Fall Semester

<input type="checkbox"/> CSC 203 Assembly Language and Computer Organization	4
<input type="checkbox"/> CSC 216 Objects and Data Abstraction using Java	4
<input type="checkbox"/> MAT ____ Mathematics elective - Linear Algebra (MAT 202) * or Calculus III (MAT 221)	3-4
<input type="checkbox"/> Humanities Elective / Social Science Elective	3
	<hr/> 14-15

Spring Semester

<input type="checkbox"/> CSC 220 Data Structures and Algorithms	4
<input type="checkbox"/> MAT 201 Discrete Mathematics	3
<input type="checkbox"/> PHY 202 Physics with Calculus II	4
<input type="checkbox"/> HPE or Free Elective	2-4
	<hr/> 13-15

TOTAL MINIMUM CREDITS:60

Electives:

Humanities Elective / Social Science Elective: 9 credits - must be chosen from the approved list of General Education courses. Refer to the College Catalog and/or the Advising Office.

Mathematics: Linear Algebra (MAT 202) or Calculus III (MAT 221)

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

Program Learning Outcomes

Students who have completed the program will be able to:

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



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

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

Data Analytics 3+1

THIRD YEAR — Fall Semester

❑ CSC 106 Introduction to Data Science	3
❑ CIS 300 Applied Database Technologies	3
❑ CIS 110 Fundamentals of Programming	4
❑ CIS 200 Principles of Information Security	3
❑ MAT 103 Statistics	3

Spring Semester

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



Industry & Employment Opportunities

Bachelor

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

Master

Financial Data Analyst, Data Scientist

Questions?

About 3+1:

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

About the program:

Karen Durkin, Asst. Dean,
STEM Division, kdurkin@rcsj.edu

RCSJ.edu/3plus1



Computer Science, CERT.

[CER-CSC; CIP Code 11.0701]

Certificate

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

Program Learning Outcomes

Students who have completed the program will be able to:

- Learn fundamental principles, theories, and analytical skills to solve computing problems throughout the program
- Analyze, design, choose the interface, coding, test, and debug to effectively develop error-free computer programs
- Learn computer architecture, software design, and programming that are most widely used in Engineering, Science and Technology related fields
- Identify, formulate, and solve problems and learn to adapt to evolving computer languages, systems, and industry standards

Program Contact

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

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

❑ ENG 101 English Composition I	3
❑ CSC 101 Introduction to Programming	4
❑ CSC 111 Intermediate Programming	4
❑ CSC 205 Programming in C++ ¹	4
❑ CSC 210 Object Oriented Programming in Java	4
❑ CSC 220 Data Structures and Algorithms ²	4
❑ MAT 110 Algebra and Trigonometry	4
❑ MAT 107 Pre-Calculus and Mathematical Analysis	4

TOTAL CREDITS: 31



[ELEC-ENG-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 manufacturing, product development, management, and engineering technology across 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 Engineering Technology program.

Program Contact

Dr. Cortney Bolden
 Engineering Administrative Instructor
cbolden@rcsj.edu

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

Electrical Engineering Technology, A.A.S.

FIRST YEAR - Fall Semester

☐ ENG 101 English Composition I	3
☐ ENR 102 First Year Engineering Clinic I	2
☐ ETEC 107 Circuits I	3
☐ MAT 107 Pre-Calculus and Mathematical Analysis	4
☐ PHY 103 General Physics I	4
	<hr/> 16

Spring Semester

☐ ENG 102 English Composition II	3
☐ MAT 108 Calculus I	4
☐ ENR 103 First Year Engineering Clinic II	2
☐ PHY 104 General Physics II	4
☐ CSC 205 Programming in C++	4
	<hr/> 17

SECOND YEAR - Fall Semester

☐ ENR 201 Sophomore Engineering Clinic I	1
☐ ETEC 205 Digital Electronics	3
☐ ECO 101 Principles of Economics I (Macro) OR ECO 102 Principles of Economics II (Micro)	3
☐ ETEC 227 Circuits II	3
☐ ETEC 111 Electronics	4
	<hr/> 14

Spring Semester

☐ ENR 202 Sophomore Engineering Clinic II	1
☐ ETEC 241 Robotics and Motion Control	3
☐ ETEC 218 Programmable Logic Controllers	3
☐ SPE 101 Oral Communication	3
☐ ETEC 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



[AS-ENR; CIP Code 14.0101]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

- Analyze and understand engineering designs
- Deliver an effective and informative professional engineering presentation
- Demonstrate an understanding of engineering materials used in different fields

Program Notes

¹ Students planning to transfer to Rowan University should take the following courses. A maximum of 5 program electives selected from the ones listed below are required for the A.S. degree. Rowan University may require additional courses not offered at this institution.

² Students wishing to take additional program electives are encouraged to declare a Secondary Program of study by enrolling in an Engineering Science Certificate of Achievement. Financial aid will NOT cover the additional program electives UNLESS you are enrolled in a Certificate of Achievement.

³ Students should review requirements at their transfer institutions. ENR 103, ENR 201, ENR 202 may not transfer to some institutions, please see an advisor for a graduation variance.

Program Contact

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

Engineering Science, A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> CSC 205 Programming in C++	4
<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 108 Calculus I	4
<input type="checkbox"/> ENR 102 First Year Engineering Clinic I	2
	<hr/> 17

Spring Semester

<input type="checkbox"/> CHM 112 General Chemistry II or ____ Program Elective ¹	3–4
<input type="checkbox"/> PHY 201 Physics I (calculus-based)	4
<input type="checkbox"/> ENR 103 First Year Engineering Clinic II ³	2
<input type="checkbox"/> ENR 207 Engineering Materials or ____ Program Elective ¹	3–4
<input type="checkbox"/> MAT 122 Calculus II	4
	<hr/> 16–18

SECOND YEAR – Fall Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> ENR 201 Sophomore Clinic I ³	1
<input type="checkbox"/> MAT 221 Calculus III	4
<input type="checkbox"/> HPE ____ Health and Physical Education elective or ____ Free Elective ¹ or ____ Program Elective ¹	1–4
<input type="checkbox"/> PHY 202 Physics with Calculus II or ____ Program Elective ¹	3–4
<input type="checkbox"/> ____ Humanities elective or ____ Social Science elective	3
	<hr/> 15–18

Spring Semester

<input type="checkbox"/> MAT 205 Differential Equations	4
<input type="checkbox"/> ENR 202 Sophomore Clinic II ³	1
<input type="checkbox"/> HPE ____ Health and Physical Education elective or ____ Free Elective ¹ or ____ Program Elective ¹	1–4
<input type="checkbox"/> ____ Humanities elective	3
<input type="checkbox"/> PHI 104 Ethics	3
	<hr/> 12–15

TOTAL MINIMUM CREDITS: 60

Program Electives^{1,2}

Mechanical ²	Electrical/ Computer ²	Civil ²	Chemical ²	Biomedical ²
PHY 202	PHY 202	MAT 202	CHM 112	CHM 112
ENR 207	MAT 202	SPE 101	MAT 202	PHY 202
MAT 202	SPE 101	GEO 115	SPE 101	MAT 202
SPE 101	CSC 220	ENR 207	CHM 201	SPE 101
ENR 211	ENR 108	ENR 211	CHM 202	BIO 101
ENR 212	ENR 218	ENR 212		
ENR 213		ENR 213		
		CET 108		
		DFT 103		



Certificates of Achievement

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

Program Contact

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

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

Engineering Science, COAs

Biomedical Engineering

[COA-CACS; CIP Code 15.1001]

Core Courses	Credits
<input type="checkbox"/> BIO 101 General Biology I	3
<input type="checkbox"/> CHM 112 General Chemistry II	3
<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> PHY 202 Physics II	3
<input type="checkbox"/> SPE 101 Oral Communication	3

TOTAL CREDITS: 18

Civil Engineering

[COA-CACE; CIP Code 14.0101]

Core Courses	Credits
<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> ENR 207 Engineering Materials	3
<input type="checkbox"/> ENR 211 Engineering Statics	3
<input type="checkbox"/> ENR 212 Mechanics of Materials	3
<input type="checkbox"/> ENR 213 Dynamics	3
<input type="checkbox"/> GEO 115 Geographical Information Systems	3
<input type="checkbox"/> CET 108 Introduction to Surveying	3
<input type="checkbox"/> DFT 103 CADD I (AutoCAD)	3

TOTAL CREDITS: 27

Chemical Engineering

[COA-CACH; CIP Code 14.0101]

Core Courses	Credits
<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> CHM 201 Organic Chemistry I	4
<input type="checkbox"/> CHM 202 Organic Chemistry II	4

TOTAL CREDITS: 20

Electrical Engineering

[COA-; CIP Code 15.]

Core Courses	Credits
<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> CSC 220 Data Structures and Algorithms	4
<input type="checkbox"/> ENR 108 Digital Electronics for Engineering	3
<input type="checkbox"/> ENR 218 Principles of Electrical Circuit Analysis	4

TOTAL CREDITS: 17

Mechanical Engineering

[COA-CAMC; CIP Code 14.0101]

Core Courses	Credits
<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> ENR 207 Engineering Materials	3
<input type="checkbox"/> ENR 211 Engineering Statics	3
<input type="checkbox"/> ENR 212 Mechanics of Materials	3
<input type="checkbox"/> ENR 213 Dynamics	3

TOTAL CREDITS: 18



[COA-CACS; CIP Code 15.1001]

Certificate of Achievement

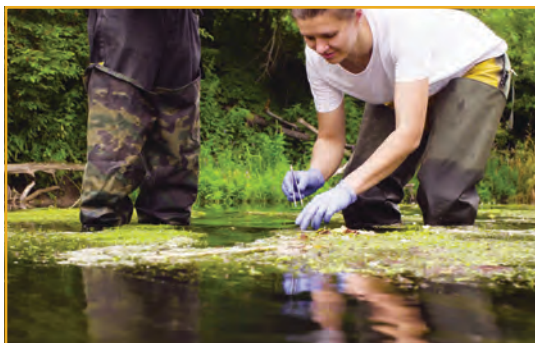
The Professional Development Certificates in the Engineering Technologies Construction Supervision program will provide the students with a concentration of courses that parallel the Associates Degree program. The certificates below give students the knowledge and skills needed for employment in their respective fields. Once a certificate is completed, students can continue with the remaining course requirements leading to an A.A.S. degree in Engineering Technologies from Rowan College of South Jersey.

Engineering Technologies Construction Supervision, COA

<input type="checkbox"/> CET 108 Introduction to Surveying	3
<input type="checkbox"/> DFT 103 CADD I (AutoCad)	3
<input type="checkbox"/> CET 201 Codes, Contracts & Specifications	3
<input type="checkbox"/> BUS 107 Business Law or CET 209 Cost Estimating	3
<input type="checkbox"/> BUS 231 Principles of Management	3
<input type="checkbox"/> COM 105 Technical and Scientific Writing or SPE 101 Oral Communication	3

TOTAL CREDITS: 18

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



[AS-ENV; CIP Code 03.0104]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

✦ 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"/> MAT 107 Pre-Calculus and Mathematical Analysis or MAT 108 Calculus ¹	4
<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 101 General Biology I	4
<input type="checkbox"/> ENVS 101 Environmental Science	4
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 102 General Biology II	4
<input type="checkbox"/> MAT 103 Statistics	3
<input type="checkbox"/> ENVS 110 Physical Geology	4
	<hr/> 14

SECOND YEAR – Fall Semester

<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> BIO 209 Ecology: Principles and Processes	4
<input type="checkbox"/> GEO 115 Introduction to Geographic Information Systems	3
<input type="checkbox"/> Program Elective ²	4
	<hr/> 14

Spring Semester

<input type="checkbox"/> ENVS 201 Research Methods & Data Analysis	4
<input type="checkbox"/> Program Elective ²	4
<input type="checkbox"/> Humanities General Education Elective	3
<input type="checkbox"/> SOC 101 Principles of Sociology	3
<input type="checkbox"/> ECO 101 Introduction to Economics (Macro)	3
	<hr/> 17

TOTAL CREDITS: 60

Program Notes

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

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

Program Elective Bank Advising Recommendations:

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



[AS-ESC; CIP Code 01.0507]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

Emily Allen, Associate Professor, Biology
eaallen@rcsj.edu

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

Equine Science, A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I or ENG 101E Enhanced English Composition I	3-4
<input type="checkbox"/> BIO 101 General Biology I	4
<input type="checkbox"/> BIO 116 Animal Science	4
<input type="checkbox"/> ____ Free elective	3-4
	<hr/> 14-16

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 102 General Biology II	4
<input type="checkbox"/> BIO 115 Introduction to Equine Science	4
<input type="checkbox"/> MAT 107 Pre-Calculus or MAT 108 Calculus	4
	<hr/> 15

SECOND YEAR – Fall Semester

<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> ECO 101 Principles of Economics (Macro)	3
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> ____ Humanities elective	3
<input type="checkbox"/> ____ Free elective	3-4
	<hr/> 16-17

Spring Semester

<input type="checkbox"/> BIO 216 Equine Capstone Practicum	3
<input type="checkbox"/> CHM 112 General Chemistry II	4
<input type="checkbox"/> ECO 102 Principles of Economics II (Micro)	3
<input type="checkbox"/> ____ Lab Science elective*	4
<input type="checkbox"/> ____ HPE elective	1-3
	<hr/> 15-17

TOTAL MINIMUM CREDITS: 60

Program Notes

Check requirements of transfer institution for elective selection.

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



Equine Science, COA

[COA-CAES; CIP Code 01.0507]

Certificate of Achievement

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

Program Contact

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

<input type="checkbox"/> BIO 116 Animal Science	4
<input type="checkbox"/> BIO 115 Introduction to Equine Science	4
<input type="checkbox"/> BIO 216 Equine Capstone Practicum	3
<input type="checkbox"/> BIO ____ Biology elective	4

TOTAL CREDITS: 15

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



[AS-ESC-PVM; CIP Code 01.0507]

Associate in Science (A.S.) – Transfer

This biology program option provides students with the basic course requirements to satisfy the first two years of a baccalaureate degree in pre-veterinary medicine or to apply to a veterinary medicine doctoral program that accepts associate degree candidates.

Veterinary medicine doctoral programs will require students complete the GRE, Biochemistry at a different institution and work or volunteer hours in the field.

Program Learning Outcomes

Students who have completed the program will be able to:

- Demonstrate knowledge of theory and practical experience and handling in anatomy, physiology, nutrition, behavior, health and reproduction of the horse and other animal species..
- Demonstrate knowledge of major concepts in animal and equine science, biology, chemistry, physics and mathematics essential for further study in veterinary medicine.

Program Contact

Emily Allen, Associate Professor, Biology
ecallen@rcsj.edu

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

Equine Science: Pre-Veterinary Medicine Option, A.S.

FIRST YEAR – FIRST SEMESTER

<input type="checkbox"/> BIO 101 General Biology I	4
<input type="checkbox"/> BIO 116 Animal Science	4
<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> MAT 108 Calculus I	4
	<hr/> 16

SECOND SEMESTER

<input type="checkbox"/> ENG 101 English Composition I or ENG 101E Enhanced English Composition	3-4
<input type="checkbox"/> BIO 102 General Biology II	4
<input type="checkbox"/> BIO 115 Introduction to Equine Science	4
<input type="checkbox"/> CHM 112 General Chemistry II	4
<input type="checkbox"/> ____ Humanities elective	3
	<hr/> 18-19

THIRD SEMESTER

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> CHM 201 Organic Chemistry I	4
<input type="checkbox"/> PSY 101 General Psychology	3
<input type="checkbox"/> HPE ____ Health and Physical Education elective	1-3
<input type="checkbox"/> ____ Social Science or ____ Humanities General Education Elective	3
	<hr/> 14-16

FOURTH SEMESTER

<input type="checkbox"/> BIO 216 Equine Capstone Practicum	3
<input type="checkbox"/> CHM 202 Organic Chemistry II	4
<input type="checkbox"/> BIO 215 Microbiology or Cell and Molecular Biology*	4
<input type="checkbox"/> ____ Lab Science elective*	4
	<hr/> 15

TOTAL MINIMUM CREDITS: 63

Program Notes

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

Check requirements of transfer institution for other transfer institution recommendations.



[AS-MS; CIP Code 26.1302]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Notes

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

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

Program Contact

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

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

Marine Science, A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> BIO 101 General Biology I	4
<input type="checkbox"/> BIO 112 Introduction to Marine Biology	4
	<hr/> 15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition I	3
<input type="checkbox"/> CHM 112 General Chemistry II	4
<input type="checkbox"/> BIO 102 General Biology II	4
<input type="checkbox"/> PHI 104 Ethics	3
<input type="checkbox"/> HPE ____ Health and Physical Education elective	2-3
	<hr/> 16-17

SECOND YEAR – Fall Semester

<input type="checkbox"/> BIO 212 Wetlands Field Ecology	4
<input type="checkbox"/> PHY 103 General Physics I	4
<input type="checkbox"/> MAT 103 Statistics or MAT 107 Pre-calculus and Math Analysis	3-4
<input type="checkbox"/> ____ Social Science elective	3
	<hr/> 14-15

Spring Semester

<input type="checkbox"/> PHY 104 General Physics II	4
<input type="checkbox"/> MAT 108 Calculus I	4
<input type="checkbox"/> BIO 2__ 200-level BIO elective ¹ or CHM 201 Organic Chemistry I	4
<input type="checkbox"/> ____ Social Science elective or ____ Humanities elective	3
	<hr/> 15

TOTAL MINIMUM CREDITS: 60



[AS-MAT; CIP Code 27.0101]

Associate in Science (A.S.) – Transfer

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

Program Learning Outcomes

Students who have completed the program will be able to:

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

Program Contact

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

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

Mathematics, A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 108 Calculus I ¹	4
<input type="checkbox"/> CSC 101 Introduction to Programming	4
<input type="checkbox"/> ____ Social Science elective ²	3
<input type="checkbox"/> ____ Free elective ⁴	1-4
	<hr/> 15-18

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT 122 Calculus II	4
<input type="checkbox"/> MAT 201 Discrete Mathematics	3
<input type="checkbox"/> ____ Science elective ³	4
<input type="checkbox"/> ____ Free elective	1-4
	<hr/> 15-18

SECOND YEAR – Fall Semester

<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> MAT 221 Calculus III	4
<input type="checkbox"/> ____ Science elective ³	4
<input type="checkbox"/> SPE 101 Oral Communication	3
	<hr/> 14

Spring Semester

<input type="checkbox"/> MAT 205 Differential Equations	4
<input type="checkbox"/> MAT ____ Mathematics elective	3-4
<input type="checkbox"/> ____ General Education elective	3-4
<input type="checkbox"/> ____ Humanities elective	3
<input type="checkbox"/> ____ Social Science elective ²	3
	<hr/> 16-18

TOTAL MINIMUM CREDITS: 60

Program Notes

¹ Students who need prerequisite Mathematics courses before beginning Calculus I will need more than four semesters to complete the degree

² Students should consult the institutions to which they wish to transfer when selecting elective courses. Economics is recommended for Social Science elective.

³ A minimum of eight credits in a two-semester laboratory science sequence is required. PHY 201 Physics I (calculus-based) and PHY 202 Physics II (calculus-based) are recommended for most transfer institutions.

Students planning to transfer to Rowan University should:

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

⁴ Program Elective Suggestion: CSC-106 Data Science



[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.

Program Contact

Dr. Cortney Bolden
 Engineering Administrative Instructor
cbolden@rcsj.edu

✦ 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

☐ ENG 101 English Composition I	3
☐ ENR 102 First Year Engineering Clinic I	2
☐ MAT 107 Pre-calculus and Mathematical Analysis	4
☐ PHY 103 General Physics I	4
☐ DFT 103 CAD I (AutoCAD)	3
	<hr/> 16

Spring Semester

☐ ENG 102 English Composition II	3
☐ MAT 108 Calculus I	4
☐ ENR 103 First Year Engineering Clinic II	2
☐ PHY 104 General Physics II	4
☐ ETEC 107 Circuits I	3
	<hr/> 16

SECOND YEAR - Fall Semester

☐ ENR 201 Sophomore Engineering Clinic I	1
☐ ENR 211 Engineering Statics	3
☐ ECO 101 Principles of Economics I (Macro) or ECO 102 Principles of Economics II (Micro)	3
☐ CHM 111 General Chemistry I	4
☐ ETEC 160 CNC Programming	4
	<hr/> 15

Spring Semester

☐ ENR 202 Sophomore Engineering Clinic II	1
☐ ENR 213 Engineering Dynamics	3
☐ ETEC 218 Programmable Logic Controllers	3
☐ SPE 101 Oral Communication	3
☐ ENR 200 Matlab Programming	3
	<hr/> 13

TOTAL CREDITS: 60



[AAS-ENT; CIP Code 15.0201]

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

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

Program Learning Outcomes

Students who have completed the program will be able to:

- Demonstrate and apply the basic principles of I route and construction surveying
- Utilize modern measurement technologies to acquire spatial data
- Employ industry-standard software to solve technical problems

Program Contact

Frank Derby, Ph.D., Professor, Surveying Engineering Technology, Rowan University,
derby@rowan.edu

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

Surveying Engineering Technologies, A.A.S.

FIRST YEAR – Fall Semester

☐ ENG 101 English Composition I	3
☐ MAT 107 Pre-Calculus and Mathematical Analysis	4
☐ CSC 111 Intermediate Programming	4
☐ GEO 115 Intro. to Mapping and GIS	3
	<hr/> 14

Spring Semester

☐ ENG 102 English Composition II	3
☐ DFT 103 CADD I	3
☐ MAT 103 Statistics	3
☐ PHY 111 Earth Science: Land and Sea	4
☐ CET 108 Intro. to Surveying	3
	<hr/> 16

SECOND YEAR – Fall Semester

☐ PHY 112 Earth Science: Air and Space	4
☐ CET 206 Evidence and Procedures for Boundary Location	3
☐ CETE 212 Large Scale Topographic Surveying	3
☐ MAT 108 Calculus I	4
	<hr/> 14

Spring Semester

☐ SPE 101 Oral Communications	3
☐ PHI 104 Ethics	3
☐ MAT 122 Calculus II	4
☐ CET 208 Route and Construction Surveying	3
☐ ____ Technical elective ¹	
	<hr/> 16

TOTAL CREDITS: 60

Program Notes

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



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.



Certificates of Achievement

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

Program Contact

Frank Derby, Ph.D., Professor, Surveying Engineering Technology, Rowan University,
derby@rowan.edu

Surveying Engineering Technologies, COAs

Civil Engineering Technologies

[COA-CCET; CIP Code 15.0201]

Core Courses	Credits
<input type="checkbox"/> CET 101 Introduction to Materials	3
<input type="checkbox"/> CET 108 Introduction to Surveying	3
<input type="checkbox"/> CET 203 Applied Statics	3
<input type="checkbox"/> CET 204 Structural Systems or	
<input type="checkbox"/> CET 205 Applied Strengths and Materials or	
<input type="checkbox"/> CET 208 Route and Construction Surveying	3

TOTAL CREDITS: 12

Construction Supervision

[COA-CACS; CIP Code 15.1001]

Core Courses	Credits
<input type="checkbox"/> CET 101 Introduction to Materials	3
<input type="checkbox"/> DFT 103 CADD I (AutoCad)	3
<input type="checkbox"/> CET 201 Codes, Contracts, Specifications	3
<input type="checkbox"/> BUS 107 Business Law or	
CET 209 Cost Estimating or	
DFT 203 CADD 3D Modeling	3

TOTAL CREDITS: 12

Drafting and Design

[COA-CADD; CIP Code 15.1302]

Core Courses	Credits
<input type="checkbox"/> DFT 103 CADD I (AutoCad)	3
<input type="checkbox"/> DFT 113 CADD II (Advanced AutoCad)	3
<input type="checkbox"/> DFT 211 Architectural and Civil Planning	3
<input type="checkbox"/> DFT 203 CADD 3D Modeling	3

TOTAL CREDITS: 12

Surveying Engineering Technology

[COA-CALS; CIP Code 15.1102]

Core Courses	Credits
<input type="checkbox"/> CET 108 Introduction to Surveying	3
<input type="checkbox"/> CET 206 Evidence & Procedures of Boundary Locations	3
<input type="checkbox"/> CET 208 Route & Construction Surveying	3
<input type="checkbox"/> DFT 103 CADD I (AutoCad)	3

TOTAL CREDITS: 12

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



[AAS-VET; CIP Code 018301]

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

This curriculum is aligned to the required program objectives and student outcomes as well as program effectiveness for the entry-level program will be assessed in accordance with AVMA CVTEA-accreditation standards (<https://www.avma.org/education/center-for-veterinary-accreditation/committee-veterinary-technician-education-activities/cvtea-accreditation-policies-and-procedures-appendix-h>).

Program Contact

Liza Wysong, BAS, CVT, VTS(CP-CF)(SAIM)
Program Director, Veterinary Technology
lwysong@rcsj.edu

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

Veterinary Technology, A.A.S.

FIRST YEAR – Fall Semester

☐ ENG 101 English Composition I	3
☐ MAT 101 Concept of Mathematics	3
☐ BIO 101 General Biology I	4
☐ VETT 101 Intro to Veterinary Technology	3
☐ VETT 115 Animal Behavior and Restraint	3
	<hr/> 16

Spring Semester

☐ ENG 102 English Composition II	3
☐ BIO 102 General Biology II	4
☐ VETT 105 Anatomy and Physiology of Domestic Animals I	4
☐ VETT 110 Veterinary Pharmacology	3
☐ VETT 201 Small Animal Medicine & Nursing Care	4
	<hr/> 18

SECOND YEAR - Fall Semester

☐ VETT 106 Anatomy and Physiology of Domestic Animals II	4
☐ VETT 210 Veterinary Laboratory Procedures I	4
☐ VETT 225 Veterinary Diagnostic Imaging & Dentistry	3
☐ VETT 230 Veterinary Surgical Nursing & Anesthesia	3
☐ VETT 205 Large Animal Medicine & Nursing Care	4
	<hr/> 18

Spring Semester

☐ VETT 235 Veterinary Emergency Medicine	3
☐ VETT 211 Veterinary Laboratory Procedures II	4
☐ VETT 220 Laboratory and Exotic Medicine and Nursing Care	4
☐ VETT 240 Veterinary Profession Leadership Seminar & VTNE Prep	3
☐ ____ Social Sci/Hum Gen Ed	
	<hr/> 17

TOTAL MINIMUM CREDITS: 69

Program Learning Outcomes

Students who have completed the program will be able to:

- Achieve an appropriate depth of knowledge in all areas of veterinary medicine as it pertains to veterinary technology.
- Apply the knowledge necessary to successfully complete the Veterinary Technician National Examination (VTNE) to function within the scope of practice of a credentialed veterinary technician.
- Execute the Essential Skills developed by the American Veterinary Medical Association's (AVMA) Committee on Veterinary Technician Education and Activities (CVTEA).
- Effectively and professionally communicate both written and verbal information to veterinary personnel and clients in a clinical setting.
- Demonstrate the use of critical thinking skills to identify and solve problems in discipline-specific situations.
- Contribute to the veterinary health care team while maintaining professional, legal, and ethical standards including a strong work ethic, personal responsibility, and compassion for animals and clients.

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
								Mathematics – Science – Technology	6	9	3	3
	2							• Mathematics 3-8 cr. (Quant. Knlg. & Skills)				
		3						• Science 3-8 cr. (Sci. Knlg. & Rsng.)				
			4					• Technological Competency 0-4 cr.				
				5				Social Science (Society and Human Behavior)	6	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 information.
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

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

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

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

Global and Cultural Awareness (GCA)

ASL 102	American Sign Language II
COM 115	Sports Communication, Identity and Culture
ENG 103	Survey of World Literature
ENG 203	Literature by Women
ENG 213	Non-Western Literature
ENG 215	Immigrant Voices in American Literature
ENG 240	Introduction to Children's Literature
ENG 241	Survey of African American Literature
GEO 102	Cultural Geography
HIS 107	African American History
PHI 110	Religions of the World
SOC 101	Principles of Sociology
SOC 102	Sociology of the Family
SOC 104	Social Problems
SOC 238	Social Minorities & Ethnic Group Relations
SPA 202	Intermediate Spanish II

Historical Perspective (HSP)

HIS 101	History of Western Civilization I
HIS 102	History of Western Civilization II
HIS 103	History of the United States I
HIS 104	History of the United States II
HIS 107	African American History
HIS 205	World History I
HIS 206	World History II

Humanities – Broad-Based (HUP)

ART 101	Art Appreciation I
ART 121	History of Photography
ART 201	Art History I
ART 202	Art History II
ASL 101	American Sign Language I
ASL 102	American Sign Language II
CHI 101	Elementary Chinese: Mandarin
ENG 103	Survey of World Literature
ENG 104	Readings in Literature
ENG 109	Survey of Classical Greek and Roman Literature
ENG 207	Major British Writers from the Middle Ages to the 17th Century
ENG 208	Major British Writers from the 18th Century to Present
ENG 203	Literature by Women
ENG 213	Non-Western Literature
ENG 222	The Romantic Era in American Literature
ENG 225	Twentieth Century American Authors
ENG 230	Major American Writers
ENG 235	American Film Classics
ENG 236	Contemporary American Film
ENG 241	Survey of African American Literature

ENG 243	The Freedom Papers: Britain's Other Literary Treasures
ENG 248	LGBTQA+ Authors and Filmmakers
FRE 101	Intro to French
GER 101	Elementary German I
GER 102	Elementary German II
HIS 101	History of Western Civilization I
HIS 102	History of Western Civilization II
HIS 103	History of the United States I
HIS 104	History of the United States II
HIS 107	African American History
HIS 205	World History I
HIS 206	World History II
ITA 101	Elementary Italian I
ITA 102	Elementary Italian II
MUS 101	Music Appreciation I
MUS 118	American Popular Music
MUS 121	History of Broadway: American Musical Theatre
MUS 203	American Music
PHI 101	Introduction to Philosophy I
PHI 104	Ethics
PHI 110	Religions of the World
PHI 150	Critical Thinking
PHI 204	Contemporary Moral Issues
PHI 210	Ancient and Medieval Philosophy
SPA 101	Elementary Spanish I
SPA 102	Elementary Spanish II
SPA 201	Intermediate Spanish I
SPA 202	Intermediate Spanish II
THR 205	Introduction to Theatre and Dance

Mathematics (QKS)

MAT 100	Foundations of Mathematics I
MAT 101	Concepts of Mathematics
MAT 102	Survey of Mathematics
MAT 103	Statistics
MAT 105	Intermediate Algebra
MAT 107	Pre-Calculus and Mathematical Analysis
MAT 108	Calculus I
MAT 110	Algebra and Trigonometry
MAT 115	College Geometry
MAT 120	Structures of Mathematics I
MAT 121	Structures of Mathematics II
MAT 122	Calculus II
MAT 151	Mathematics for Management
MAT 152	Applied Calculus
MAT 200	Foundations of Mathematics II
MAT 202	Linear Algebra
MAT 203	Statistics II
MAT 205	Differential Equations
MAT 221	Calculus III

GENERAL EDUCATION ELECTIVES

Science (SKR)

BIO 101	General Biology I
BIO 102	General Biology II
BIO 103	Environmental Science: Ecosystems and Man
BIO 104	Environmental Science: Pollution and Solutions
BIO 105	Anatomy and Physiology I
BIO 106	Anatomy and Physiology II
BIO 107	Human Biology
BIO 111	Contemporary Concepts in Biology
BIO 112	Introduction to Marine Biology
BIO 113	Economy Botany: Plants and Society
BIO 116	Animal Science
BIO 140	Science of Nutrition
BIO 209	Ecology: Principles and Processes
BIO 215	Microbiology
BIO 221	Cell and Molecular Biology
CHM 107	Introductory Chemistry
CHM 111	General Chemistry I
CHM 112	General Chemistry II
CHM 201	Organic Chemistry I
CHM 202	Organic Chemistry II
CHM 215	Environmental Chemistry
PHY 101	Principles of Physical Science I
PHY 103	General Physics I
PHY 104	General Physics II
PHY 105	Modern Astronomy
PHY 107	Technical Physics I
PHY 111	Earth Science: Land and Sea
PHY 112	Earth Science: Air and Space
PHY 121	Physics for Everyday Life
PHY 201	Physics I (calculus-based)
PHY 202	Physics II (calculus-based)
PHY 203	Physics III (calculus-based)
PHY 241	Forensic Science

Social Science – Introductory (SHB)

ECO 100	Introduction to Economics
ECO 101	Principles of Economics I (Macro)
ECO 102	Principles of Economics II (Micro)
GEO 102	Cultural Geography
POL 101	American Federal Government
POL 103	Introduction to Political Science
PSY 101	General Psychology
PSY 211	Psychology of Human Development
PSY 212	Psychology of the Adolescent
PSY 213	Child Psychology

PSY 215	Psychology of Aging
SOC 101	Principles of Sociology
SOC 102	Sociology of the Family
SOC 104	Social Problems
SOC 110	Cultural Anthropology
SOC 130	Society, Ethics and Technology

Technological Competency (TC) or Information Literacy (IL)

CIS 102	Introduction to Computers
CIS 110	Fundamentals of Programming
CSC 101	Introduction to Programming

Written and Oral Communication in English (WOC)

COM 105	Technical and Scientific Writing
ENG 101	English Composition I
ENG 101E	Enhanced English Composition I
ENG 102	English Composition II
SPE 101	Oral Communication

Course Descriptions

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

Many courses require course fees in addition to tuition. Please refer to page 6 of this catalog or to the website [RCSJ.edu](https://www.rcsj.edu) for a list of fees and fees relating to online course listings.

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

Please Note: All course and lab fees are listed according to categories (A, B, C; F through K; O; Q through T; W and Y). Dollar amounts for each category, listed on page 6 of this catalog, are accurate through June 30, 2024.

ALH – Allied Health

ALH 102 Medical Terminology

3 lecture hours, 3 credits

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

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

ALH 104 Patient Care

1 lecture hour, 1 credit

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

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

ALH 107 Cross Sectional Anatomy

2 lecture hours, 2 credits

Prerequisite: Grade of "C" or higher in BIO 105

Pre or Co-requisite: BIO 106

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

ALH 130 Elements of Healthcare Careers

3 lecture hours, 3 credits

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

ALH 140 Biomedical Ethics

3 lecture hours, 3 credits

Prerequisites: ENG 101, ENG 101E

The range of issues that define bioethics intersect with issues of racial and gender equality, as well as policies affecting the world's most vulnerable populations. This multidisciplinary course blends the arts of philosophy, theology, history and law to examine biomedical issues in personal, social and cultural contexts. Students will be introduced to classic and contemporary methods and theories of ethics and use those concepts to analyze a variety of current

biomedical and health-care related issues and apply moral reasoning to formulate an ethical response. This class serves as a framework to assist professionals in resolving legal and ethical questions in the field of medicine and research.

ART – Art

ART 101 Art Appreciation I

3 lecture hours, 3 credits

Prerequisites: RDG 099 or ENG 104

This is an introductory course directed toward a basic understanding of past and recent painting, sculpture, architecture, photography and digital and other media.

ART 105 Drawing I

2 lecture hours, 2 studio hours, 3 credits

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

ART 108 Drawing and Painting I

2 lecture hours, 2 studio hours, 3 credits

Course Fee: B

This course introduces drawing and painting using pencil, watercolor and oil or acrylic paint. Studies include still life, landscape, life drawing and abstraction. No previous experience is necessary. This course will not satisfy art major requirements. (Some supplies are to be furnished by the student.)

ART 114 Painting I

2 lecture hours, 2 studio hours, 3 credits

Course Fee: B

This course is an introduction to painting, using watercolor, acrylic and oil paints. The study is to include non-representational and representational methods of painting. (Some supplies are to be furnished by the student.)

ART 116 Color Theory

2 lecture hours, 2 studio hours, 3 credits

Prerequisites: RDG 099 or ENG 104

Course Fee: B

Emphasis in this course is on the implications of color for designers and artists. Color awareness is realized through experimentation with optical illusions, color harmony and psychological associations. Color exercises and creative assignments are supplemented by lecture, group discussion, critique and individual instruction.

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

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

ART 131 Introduction to Digital Photography**2 lecture hours, 2 studio hours, 3 credits****Prerequisites: RDG 099 or ENG 104****Online sections of this course offered some semesters.**

This course is an introduction to digital photography. Current trends in image making are examined from aesthetic, cultural, social and political points of view. Topics include elements of basic camera operation, exposure, lighting, composition, visual literacy and investigation of the relationships between elements of form, shape, line and color. **DSLR camera is required.**

ART 141 Introduction to Photoshop**2 lecture hours, 2 studio hours, 3 credits****Prerequisites: ART 131**

This course will familiarize students with Adobe Photoshop and its relationship to digital photography. Students will gain practical experience with digital techniques that will support their photography skills as a business, design, artistic and communication tool. The goal of this course is to facilitate the integration of Adobe Photoshop with digital photography in order to strengthen visual communication.

ART 201 Art History I**3 lecture hours, 3 credits****Prerequisites: RDG 099 or ENG 104**

Art History I surveys western art from humankind's first efforts to the Renaissance with an emphasis on historical continuity and effects of social change.

ART 202 Art History II**3 lecture hours, 3 credits****Prerequisites: RDG 099 or ENG 104**

Art History II surveys the developments of western art from the Renaissance to modern time. Baroque, neoclassicism, realism, impressionism and post-impressionism are included topics.

ART 231 Intermediate Digital Photography**2 lecture hours, 2 studio hours, 3 credits****Prerequisites: ART 131, RDG 099 or ENG 104**

This course will familiarize students with digital photography beyond the basic camera controls and image adjustments. Students will gain practical experience with digital photography techniques that will support their photography skills as a business, design, artistic and communication tool and develop the digital lab skills to make fine-tuned image adjustments with digital photography editing software. The goal of this course is to provide hands-on practice in digital photography for those already comfortable with basic camera controls who are ready to move to intermediate digital image making in order to strengthen visual communication. **A DSLR camera is required.**

ASL – American Sign Language

ASL 101 American Sign Language I**3 lecture hours, 3 credits****Prerequisites: RDG 099 or ENG 104**

An introduction to sign language used by the majority of American deaf adults. Emphasis is on the development of basic skills and acquisition of non-verbal communication techniques.

ASL 102 American Sign Language II**3 lecture hours, 3 credits****Prerequisite: ASL 101**

A continuation of ASL 101, this course emphasizes continuing development of skills using ASL as well as extensive interaction with the deaf community.

AUT – Automotive Technology

AUT 101 Automotive Service Fundamentals**1 lecture hour, 5 lab hours, 2 credits****Prerequisites: RDG 099 or ENG 104****Admission to Automotive Technology program****Course Fee: C**

This course introduces the principles of shop operations, customer relations, service and parts department procedures and shop safety. Emphasis is placed on identification of automotive measuring devices and systems and hand and power tools usage.

AUT 103 Front-End Suspension**1 lecture hour, 10 lab hours, 3 credits****Prerequisites: AUT 101 and AUT 107****Course Fee: C**

This course will cover the proper techniques and procedures for complete front-end services to include manual and power steering systems. Laboratory investigations include wheel alignment, tire and wheel balancing, analysis of tire wear, noise, vibration and harshness.

AUT 105 Brakes and Hydraulic Controls**1 lecture hour, 10 lab hours, 3 credits****Prerequisites: AUT 101 and AUT 107****Course Fee: C**

This course covers the diagnosis and repair of both drum and disc brake systems, power brake boosters, master cylinders, wheel cylinders and related component parts. Topics also covered are anti-lock brake systems, stability control systems and automatic braking systems.

AUT 107 Automotive Electrical Systems**2 lecture hours, 15 lab hours, 5 credits****Prerequisite: Admission to Automotive Technology program****Course Fee: C**

This course is an introduction to basic electrical theory (circuits, Ohm's Law, etc.) and its application to automotive electrical systems. Included are discussions and laboratory experiences related to batteries, wiring, lighting, alternators, voltage regulators and conventional ignition systems.

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

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

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

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

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

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

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

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

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

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

BIO – Biology

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

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

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

The origin of new cells and organisms as well as the manner by which genetic material is passed from parent to offspring are investigated in detail through lecture, discussion and lab exercises. Classical and molecular genetics are reviewed and permit the concurrent consideration of the theories relevant in biology today. DNA technology and molecular biology of the gene will be investigated including genetic evolution and the evolution of behavior.

BIO 103 Environmental Science: Ecosystems and Man
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: C, H

The impact of human activities on ecosystems will be explored. Topics will include fundamentals of ecology, how ecosystems function, conservation of plants and animals, overpopulation and world food/hunger problems. Lab experiences focus on natural resource monitoring and ecological investigations.

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

This science course emphasizes the impact of human activities on global resources. Topics will include energy sources, air and water pollution, toxicology, global climate change and waste. Lab experiences focus on investigations that help students understand how to minimize their environmental impacts.

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

This course presents a comprehensive study of the structure and function of the gross and microscopic organization of the human body. Emphasis is placed on the integumentary, skeletal, muscular and nervous systems. Laboratory experiences include computer-assisted instruction and experimental labs which reinforce contemporary scientific concepts.

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

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

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

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

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

This is a one-semester course that provides a general survey of basic biological theories and modern scientific research. This course includes an introduction to plant and animal diversity, natural selection and molecular biology through interactive laboratory techniques and lectures. *This course fulfills the requirements of a general education lab course.*

BIO 112 Introduction to Marine Biology**3 lecture hours, 3 lab hours, 4 credits****Prerequisite:** RDG 099 or ENG 104**Course Fees:** C, H

Introduction to Marine Biology is a one-semester course involving the study of the interaction between marine organisms and their physical environment. Topics studied will include marine ecosystems, diversity of marine organisms and the ocean environment, as well as the importance of marine habitats to terrestrial habitats. Laboratory work will include applied science and identification of marine organisms. *This course fulfills the requirements of a general education lab science course.*

BIO 113 Economic Botany: Plants and Society**3 lecture hours, 3 lab hours, 4 credits****Prerequisite:** RDG 099 or ENG 104**Course Fees:** C, H

Students will explore the scientific research on present and future use of plants and the relationship between plants and people. Topics will include plants known to be useful or those which may have potential uses so far undeveloped. Origins of agriculture, important crop plants, spices, herbal medicines and important plant resources such as wood, bark, latex, tannins, dyes, fibers, resins, oils and waxes will be discussed. Laboratory work will include demonstrations and practical experiments about useful plants. Field experiences will include trips to local farms and gardens that feature economically important plants.

BIO 115 Introduction to Equine Science**3 lecture hours, 3 lab hours, 4 credits****Prerequisites:** BIO 116 and RDG 099 or ENG 104 or permission of the instructor**Course Fees:** C, H

This course presents theoretical and practical scientific knowledge in the study and care of horses. Instruction focuses on anatomy, physiology, behavior, reproduction and nutrition. Laboratory and field experience will develop skills in handling, foot care, feeding, selection and health management of horses. This course is appropriate for students with or without prior academic or practical experience with horses. Laboratory work will include applied science, dissections and field experiences at the Gloucester County Dream Park.

BIO 116 Animal Science**3 lecture hours, 3 lab hours, 4 credits****Prerequisite:** RDG 099 or ENG 104**Course Fees:** C, H

This course presents the fundamental scientific principles underlying animal function and production including the topics of heredity, nutrition, reproduction, physiology, behavior and animal health, as well as current issues related to the animal sciences. Laboratory work will include applied science and field experiences to local farms and animal care facilities.

BIO 140 Science of Nutrition**3 lecture hours, 3 lab hours, 4 credits****Prerequisite:** RDG 099 or ENG 104**Course Fees:** C, H

This course explores nutrition as a scientific discipline. Information on the chemical, biological and metabolic nature of major and minor nutrients will be covered. Food choices and habits will be examined and aspects of clinical nutrition will be introduced. Nutrition research will be explained and how information flows from the lab bench to popular press will be explored. Current popular nutritional thinking will be reviewed and critiqued by reviewing books, movies and written articles.

BIO 209 Ecology: Principles and Processes**3 lecture hours, 3 lab hours, 4 credits****Pre or Co-requisite:** BIO 102**Course Fees:** C, H

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

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

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

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

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

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

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

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

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

BUS – Business

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

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

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

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

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

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

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

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

BUS 106 Managerial Accounting**3 lecture hours, 3 credits****Prerequisite:** BUS 103

This course provides basic principles of managerial accounting as applied to the manufacturing enterprise. Students will learn the management uses of accounting data for planning, control and decision making emphasized in the study of cost accounting, budgeting and internal reporting procedures.

BUS 107 Business Law I**3 lecture hours, 3 credits****Prerequisite:** RDG 099 or ENG 104

This course provides the fundamentals of legal liability, the growth of legal institutions and federal and New Jersey court systems. Reference is made to government regulations of business, business torts and business crimes. The principles of the law of contracts, agency and employment are covered.

BUS 108 Business Law II**3 lecture hours, 3 credits****Prerequisite:** BUS 107

This course covers the legal aspects of business regarding commercial paper, bailments and personal property, partnerships, corporations, sales, real property, estates and bankruptcy. There is special emphasis on the Uniform Commercial Code.

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

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

BUS 206 Federal Income Taxes**3 lecture hours, 3 credits****Prerequisite:** RDG 099 or ENG 104, MAT 050

This course covers federal income tax laws as applied to the preparation of individual and sole proprietorship returns. Topics include withholding adjustments, declaration of estimated tax and all supporting schedules and forms.

BUS 207 Accounting Information Systems**2 lecture hours, 2 lab hours, 3 credits****Prerequisite:** CIS 120**Course Fees:** A, G, Q

This course is designed to introduce the accounting student to information systems widely used in the accounting environment. Students will utilize QuickBooks Pro Accounting Software and Sage 50 Complete Accounting Software (formerly Peachtree Accounting) to process transactions, prepare reports and navigate through the accounting cycle. In addition, emphasis on the development of efficient spreadsheets as applied to financial and managerial accounting concepts will be implemented.

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

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

BUS 221 Principles of Marketing**3 lecture hours, 3 credits****Prerequisite:** RDG 099 or ENG 104

The marketing function is at the managerial level. Topics discussed include methods, trends and problems involved in research, development and distribution of goods and services from the producer to the consumer. Emphasis is on product strategy, pricing problems, channels of distribution, promotion and the study of consumer and marketing behavior.

BUS 223 Principles of Selling**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

Techniques involved in personal selling are discussed. Prospecting, planning and executing sales presentations, demonstrations, answering objections, closing sales and building good will are considered.

BUS 224 Social Media Marketing and Web Analytics**2 lecture hours, 2 lab hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course provides hands-on instruction on the effective use of social media, online marketing, and social networking. Students learn to use search engine optimization, email marketing, and performance analytics. These tools will position students to construct marketing plans that will increase business visibility and success in the marketplace. This course also provides opportunities for students to obtain highly valued certifications, such as Google Analytics, at no additional cost.

BUS 225 Principles of Advertising**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course is a study of the principles, techniques and trends in advertising as creative promotional strategy. Discussion includes effective media selection, budget, copy, social responsibility and the control of advertising.

BUS 231 Principles of Management**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course is an introduction to the planning, organizing, directing and controlling functions of the management process. Topics include formulating plans and objectives, decision making, organizational structures, authority, staffing, leadership, motivation and communication.

BUS 234 Small Business Management**3 lecture hours, 3 credits****Prerequisites: BUS 231**

Provides complete coverage of small business operations with proper balance between business functions and management functions. Topics include how to obtain financing, how to evaluate a business that is for sale, how to market a small business, how to prepare a business plan as well as how to recognize business problems and develop solutions.

BUS 237 Human Resource Management**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course covers implications of human resource planning, recruiting, selecting, training and evaluating. Emphasis is on motivation, leadership activities and labor relations in the culturally diverse workplace.

BUS 239 Organizational Behavior**3 lecture hours, 3 credits****Prerequisite: BUS 231**

This course examines the understanding of human behavior and how organizations can develop a culture built on the principles of cooperation, support and respect. Topics include impact of individual differences, application of learning theories to improve employee performance, effects of stress on the workplace, conflict management and how culture can affect organizational change.

BUS 241 Business Ethics**3 lecture hours, 3 credits****Prerequisite: BUS 231**

This course examines the understanding of corporate responsibility, the implications of managers' and employees' actions and laws that apply to people and organizations. Topics include the legal and moral responsibilities of managers, managing ethical conduct, ethical decision making, case studies and ethics as it relates to the organization.

BUS 243 Organizational Development**3 lecture hours, 3 credits****Prerequisite: BUS 231**

This course examines how organizations can better adapt to their external environments by applying different methods to influence change. Topics include strategically affecting cultural change within an organization, constructing plans to support a new organizational vision and analyzing case studies to evaluate effectiveness.

CEP – Internship Career Connections

Students must apply for Internship Career Connections prior to registering for the course. Contact the Business Division for more information at extension 2157.

CEP 200**CEP 203****CEP 204****CEP 208 Cooperative Education Work Experience
for Automotive Technology Program****Seven to 13 hours per week, supervised employment
for 10-week internship****1 credit****Prerequisites: 2.000 GPA, AUT 110, AUT 111 and AUT 135
and acceptance into the program****Course Fee: C**

See description following.

CEP 211 Internship Career Connections**1 lecture hour, 150 hours employment, 3 credits****Prerequisites: 2.000 GPA, completion of 30 credits and
selection for participation in the program**

This program is designed for students who aspire to gain career-related experience while completing their degree. The Internship Career Connections Program consists of an academic experience and a supervised work experience. Students will interview for available positions and if selected for the program, will register for the class and attend a mandatory orientation. The program is also open to those students who are already working in a career-related position, given their participation in the academic component of the course and the willingness of their employer to structure the job as a Internship Career Connections.

CET – Civil Engineering Technology

CET 101 Introduction to Materials

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

This course is a study of the production, composition and properties of important metals and selected alloys and the effects of thermal and mechanical treatments on their structure and serviceability for architectural and engineering products. The properties and suitability of materials such as wood, steel, non-ferrous metals, bituminous materials, mineral aggregates, lime products, concrete, glass, masonry and brick for architectural and engineering purposes are studied. The proper selection, sampling and testing of engineering materials for mechanical properties will be discussed. Particular emphasis will be on materials that, by their nature, contribute to energy efficient construction techniques. These studies will focus on new and traditional products.

CET 108 Introduction to Surveying

2 lecture hours, 3 lab hours, 3 credits

Prerequisite: MAT 110

Course Fees: B, H

This course is a systematic study of the basic principles of plane surveying. Topics include field practice, office procedures and familiarization with various surveying instruments (transit, theodolite, EDM, total station, automatic-level and laser-level). Traversing, triangulation and leveling are also studied.

CET 201 Codes, Contracts and Specifications

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

This course is a study of business and professional relations in architecture and engineering. Topics include law of contracts, torts, agency, the independent contractor, real property liens, partnerships and corporations. Also included are litigation, arbitration of disputes, labor laws in construction work, bidding procedures and specification writing.

CET 203 Applied Statics

3 lecture hours, 3 credits

Prerequisite: MAT 110

This course includes the study of forces as vectors acting upon bodies and structural elements. Analytic and graphic methods are used to examine resultants and reactions, equilibrium, centroids and centers of gravity and moments of inertia as applied to static structures.

CET 204 Structural Systems

2 lecture hours, 3 lab hours, 3 credits

Prerequisite: CET 203

Course Fees: B, H

This course applies principles of statics to the analysis and design of structural steel reinforced concrete structures. Detailing of simple structures and connections between members of steel structure are studied.

CET 205 Applied Strength of Materials

3 lecture hours, 3 credits

Prerequisite: CET 203

This course studies elasticity and simple stresses of steel, wood and concrete. Topics include shear and moment diagrams, evaluation of riveted and welded connections and the study of axial and eccentrically loaded columns.

CET 206 Evidence and Procedures for Boundary Location

3 lecture hours, 3 credits

Prerequisite: CET 108

This course presents a systematic study of the applications of the laws of boundaries and evidence necessary for boundary determination. The history and development of land boundaries, the surveyor's role in court, court procedures and legal elements of surveying are studied.

CET 207 Hydraulics

3 lecture hours, 3 credits

Prerequisite: MAT 110 or equivalent

This course is a study of the behaviors and properties of fluids under static and dynamic conditions. Attention is given to buoyancy and stability of floating bodies. The use of Bernoulli's equation for calculations of flow through pipes, orifices and open channels is covered.

CET 208 Route and Construction Surveying

2 lecture hours, 3 lab hours, 3 credits

Prerequisite: CET 108 or equivalent

Course Fees: B, H

This course is a systematic study of road layout including parabolic curves, circular curves and cross-sections. Field and office practices in various methods of establishing horizontal and vertical control for mapping and planning as applied to different construction projects are discussed. Other topics include determination of earth quantities, slope staking and the use of the stereometer in interpreting aerial photographs. Students receive hands-on experience with various surveying instruments, data collectors and computers to develop skills in the field-to-finish concept for surveying and engineering operations.

CET 209 Cost Estimating

3 lecture hours, 3 credits

Prerequisite: CET 201

This course provides theoretical and practical experience in developing contract documents, detailed estimates and bill of materials of a construction job. Emphasis is on factors contributing to the contract including permits and specifications, local taxation and overhead and profit.

CET 210 Advanced Hydraulics

3 lecture hours, 3 credits

Prerequisite: CET 207

This continuation of CET 207 is a study of viscosity, energy losses and flow in non-circular cross sections. The principles of hydraulics will be applied in open channels, flow measurements and selection of pumps.

CETE 212 Large Scale Topographic Surveying

2 lecture hours, 3 lab, 3 credits

Prerequisites: CET 108, DFT 103

This course covers application of the theory and practice of the broad spectrum of traditional land surveying processes including project planning, control surveying, feature surveying, data processing and map making. Accuracy assessment and data analysis processes are discussed to ensure that the finished product meets expected accuracy standards. During field practical exercises, students use GNSS equipment to establish survey control networks on a project site and use total stations and electronic data collectors for feature coding and surveying. Industry standard data processing software is used to process the data and apply State Plane Coordinate system to produce deliverables. A report of the survey will be produced together with the map products.

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

This course presents an overview of the field of planning as practiced in today's American Society. Topics include the history and development of planning, the politics of planning, planning analysis and implementation, urban design, collaborative planning and environmental design. Emphasis is placed on the changing trends of planning, including green urbanism, sustainable communities and participatory planning.

CGA – Computer Graphic Arts

CGA 103 Design, Color and Type
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: B, G

This design and type course will focus on developing a student's awareness of design elements including line, shape, value, color, texture and space. The design principles of balance, proximity, alignment, unity, emphasis and rhythm will be covered. Design concepts will be considered as they affect the fine arts, crafts and commercial arts. Lettering explores the basic forms of hand lettering. The course will cover an overview of typography and issues of design with type. Typography covers basic type classifications and usage including the study of selection of proper type for specific purposes.

CGA 115 Foundations of Computer Graphic Arts
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
Course Fee: B, G

This introductory course provides a basic knowledge of the creating and processing of visual art with the computer. Students gain knowledge of terminology and hands-on experience with computer graphics software and hardware, including the use of a mouse, digital tablet and scanner to create original art designs. Students gain a basic knowledge of theory in computer graphics art and demonstrate a mastery of the use of basic menus, commands and tools of computer graphic arts software.

CGA 118 Introduction to Animation
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CGA 103
Course Fees: B, G

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

**CGA 120 Introduction to Electronic Publishing and
Typography**
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CGA 103

In this course students will be introduced to the fundamentals of using computer-based publishing tools, and terminology. Students will be able to apply typographical formatting, integrate and manipulate graphics with text, and print documents to black and white or color printers. Students will master the basic menus, and commands. All lecture topics are supported by a lab component.

CGA 130 Video and Audio Editing
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CGA 103
Course Fees: B, G

This course introduces students to the concepts and practice of editing video and audio with professional level software tools. Students will understand organizing media, add audio, create transitions, produce titles and add effects. Students will also learn to edit audio files. Students will understand how to export video and audio for different uses.

CGA 212 Screen Graphics
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CGA 103
Course Fees: B, G

This course provides instruction on methods of creating graphics for use in web page(s), website design, game design and/or mobile screen design. Students will be introduced to principles of interactive design concepts. Concepts include the issues of resolutions, vector vs. raster graphics, correct use of type and color and creation of graphics used in animations for the screen and web.

CGA 215 Electronic Illustration I
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CGA 115
Course Fees: B, G

In this course, students learn to use a vector drawing program to create graphics on the computer. Focus is on creating object-oriented drawings using type effects, Bezier drawing tools, gradients, symbols, colors and correct use of file formats. Students create drawings for print, screen and the Web and demonstrate a mastery of the use of the basic menus, commands and tools of electronic illustration software.

CGA 217 Electronic Image Processing
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: CGA 103 and ART 131
Course Fees: B, G

This course introduces the use of image editing software. Students learn how to scan an image using the correct resolution functions, save files to appropriate formats and retouch and merge photographs. Color correction, organization of images on layers, printing, prepress issues and color management will be discussed. Creation of images for the web and screen display are discussed. Students will demonstrate a mastery of the use of the basic menus, commands and tools of the image manipulation software.

CGA 218 Game and Interactive Authoring
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: CGA 103 and CGA 118
Course Fees: B, G

This course introduces advanced techniques for authoring games and interactive design projects. Students learn advanced tools and begin to use professional design tools to design prototype games and interactive products and apply interface design principles. Students utilize a computer lab setting to complete projects that demonstrate the use of the skills and techniques learned in this class.

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

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

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

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

CHI – Chinese

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

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

CHM – Chemistry

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

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

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

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

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

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

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

This course is a study of the reactions, nomenclature, molecular structure and properties of organic compounds. Functional groups are studied with an emphasis on the mechanisms of their reactions. Hydrocarbons, alkyl halides, alcohols and ethers are studied in detail. Laboratory sessions involve practice in modern organic procedures including syntheses of organic compounds and analyses using wet and instrumental methods such as gas chromatography, infrared spectroscopy, ¹H nuclear magnetic resonance spectroscopy, polarimetry and refractometry.

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

This course is a continuation of Organic Chemistry I. It is a further study of the nomenclature, molecular structure, properties and mechanisms of reactions of the major functional groups. Radical reactions, the reactions of conjugated and aromatic compounds and those of carbonyl compounds and amines are studied in detail. The latter part of the semester focuses on carbohydrates, lipids, proteins and nucleic acids. Laboratory sessions involve practice in modern organic procedures including syntheses of organic compounds and analyses using wet and instrumental methods such as infrared spectroscopy, ¹H and ¹³C nuclear magnetic resonance spectroscopy, ultraviolet spectroscopy, polarimetry and refractometry.

CIS – Computer Information Systems

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

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

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

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

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

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

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

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

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

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

CIS 200 Principles of Information Security
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

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

CIS 207 Management Information Systems
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: CIS 102 and (BUS 103 or CIS 210 or ECO 100 or ECO 101)
Course Fees: A, G

This course introduces students to information systems and demonstrates how these systems are used throughout organizations. In addition to a survey of information systems, students will gain hands-on experience with software tools applied to business data analysis and database management as well as business process execution.

CIS 210 Relational Databases
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: CIS 102
Course Fees: A, H

This course presents the fundamental concepts of database management systems. It covers the methods and procedures used in design and development of relational databases. The Entity-Relationship modeling tool and the normalization process will be utilized during the design phase. Students will implement their designs as they develop actual database management systems using Microsoft Access.

CIS 220 IT Help Desk/Technical Support
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: CIS 102
Course Fees: A, G

This course will introduce students to the skills necessary for a computer user support technician. Troubleshooting, user support management and customer service communication techniques will be addressed. Topics will also include the areas of technical support software, project management and networking essentials fundamentals.

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

This course presents the fundamentals of creating real-world Web applications using JavaScript. The course provides hands-on experience in the detailed coverage of foundation concepts of programming, such as objects, properties, events, expressions, arrays, loops and conditional statements.

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

This course presents the features and concepts of dynamic websites which are driven by a relational database management system. Students will also acquire the skills and techniques needed to build and deploy dynamic web applications that interact with a powerful database.

CMA – Certified Clinical Medical Assistant

CMA 101 Foundations in Medical Assisting
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
Course requires a final grade of "C" or better to progress in the CCMA program

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

CMA 103 Structure of the Human Body I**2 lecture hours, 2 credits****Prerequisite:** RDG 099 or ENG 104**Course requires a final grade of "C" or better to progress in the CCMA program**

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

CMA 104 Structure of the Human Body II**2 lecture hours, 2 credits****Prerequisites:** "C" or better in CMA 103**Course requires a final grade of "C" or better to progress in the CCMA Program.****Co-requisites:** CMA 110, CMA 118, CMA 125

This course is continuation of Structure of the Human Body I. Students will build upon their understanding of the human body through the integration of terminology, diagnostic procedures, disease and treatments as they relate to endocrine, muscular, nervous, reproductive, and skeletal body systems. Basic medical terminology and legal terms used in the healthcare profession will also be discussed.

CMA 107 Medical Assistants in Practice Lab I**2 lab hours, 1 credit****Prerequisites:** RDG 099 or ENG 104**Course requires a final grade of "C" or better to progress in the CCMA program**

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

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

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

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

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

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

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

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

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

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

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

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

This course is designed to prepare students in fundamental aspects of phlebotomy training including collecting, transporting, handling and processing blood specimens for analysis while adhering to all aspects of quality control and infection control safety policies. This course assists students in preparation for the national credentialing exams for entry-level medical assistants.

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

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

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

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

COM – Communications

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

This course highlights the theory and practice of written, oral and interpersonal communication used in the workplace with emphasis on composing clear, concise and effective business correspondence. Students will discuss various types of communication media and the importance of succinct written and oral expression to modern business interactions. Students will have extensive practice writing a wide spectrum of documents, including professional emails and reports. Additionally, the course will discuss effective planning and delivery strategies for professional oral presentations.

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

This course introduces the principles and mechanics of technical and scientific writing for persons studying or working in technologies or the sciences. Students will learn specific communications skills associated with reporting technical information and will write a series of papers ranging from process description and feasibility reports to a research project, to be reported orally.

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

This course will cover all aspects of the American Psychological Association documentation format. Students will learn APA documentation of in-text citations and reference pages as well as correct margins, spacing, headers, title pages, footnotes and avoidance of plagiarism. The student will take a series of open book quizzes, create an annotated bibliography and write a research paper.

COM 115 Sports Communication, Culture, and Identity
Prerequisite: ENG 101

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

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

This course provides an introduction to Internet services and resources for communication, collaboration and research. COM 140 is currently listed as a communications elective for students pursuing a Communications Option degree, one of RCSJ's top-ten programs by enrollment.

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

This course provides students with extensive practice in composing and reading argumentative writing. Students will learn specific theories of persuasion and reasoning and will apply this knowledge to their own compositions. They will read and evaluate the persuasive logic of professional writers as well as their peers.

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

This course covers the basics of newspaper style, methods of writing leads and news stories and the ethical and legal responsibilities of the press in a free society.

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

This course in non-fiction writing teaches the novice writer to write and market effective article manuscripts. Students evaluate selected newspaper and magazine markets, write query letters to editors and research, write and submit articles to self-chosen publications. They conduct readability-level tests on self-written articles and on occasion, share manuscripts with other students.

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

In this course students will study creative nonfiction works and write several short essays/articles, sharing them with the class. Specifically, this course will cover the memoir, personal essay, profile, review, travel writing and feature writing. The course will emphasize the creative nonfiction contract writers have with their readers.

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

Students study a variety of short fiction for story structure and write several short stories. Students also share portions of their stories in progress, demonstrating for example, narrative point-of-view, dialogue and significant setting. They prepare at least one story for submission to a magazine or literary journal.

COM 208 Creative Writing: Poetry
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

Students study a variety of poems for their poetic structure and write a series of poems in the narrative, dramatic and lyric forms. Students also share their poems in progress, demonstrating for example, figurative language, sound sequence, meter and stanzaic patterns. They prepare at least three poems for submission to a magazine or literary journal.

COM 210 Film History and Appreciation
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

Film History and Appreciation explores 50 years of the art and impact of one of the most persuasive, pervasive information delivery systems ever invented. By viewing and discussing a wide array of clips and full episodes of programming (many from the earliest days of the medium), students will assess the significance of the foundation of all entertainment and informational programming. Furthermore, students examine how television has affected American society and how American society has affected television.

COM 220 Communication Ethics, A.I., & Media Analysis
3 lecture hours, 3 credits
Prerequisite: ENG 101

This course will examine the social, artistic, political, diversity, and ethical implications around the use of artificial intelligence (A.I.) and disinformation and misinformation online. The class will discuss ways in which A.I. is used in visual, written, and other forms of rhetoric, with a focus on ethical questions around such use. Additionally, a number of case studies on disinformation and misinformation will be examined with the goal of encouraging students to become educated media consumers.

COM 212 TV History and Appreciation
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

TV History and Appreciation is a foundation course for Radio, Television and Film students and a prerequisite for future production courses. This course will focus on the decade of the 1950s in which the structure of American commercial television developed. Students will explore the art and impact of one of the most pervasive information delivery systems ever invented. Students will discuss the evolution of some of today's most popular and influential programming. The cultural, economic and regulatory decisions that shaped the medium will be discussed. Students will also analyze primetime TV's portrayal of the American family, gender roles, violence, politics and the legal law enforcement and medical professions.

COM 214 Journalism Workshop I
3 lecture hours, 3 credits
Prerequisite: COM 201

This course provides practical experience in journalism. Students serve as staff members of the campus newspaper and gain practical experience in gathering news; writing leads, news stories and headlines; editing; proofreading; and learning other aspects of newspaper publication. Students also attend seminars on journalism and work on special projects to be assigned by the instructor.

COM 216 Foundations of Media Production
2 lecture hours, 2 studio hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This introductory course will familiarize students with filmmaking techniques in preparation for more advanced production courses. Through a series of assignments and hands-on laboratory production exercises, students will employ a range of media production techniques designed to provide practical experience with collaboration, pre-production planning, DSLR camera operation, lenses, composition, lighting and editing during the post-production process to create a final film project.

COM 217 Applied Media Aesthetics
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

Applied Media Aesthetics is a foundation course for Radio, Television and Film students and a prerequisite for future production courses. It is designed to introduce students to universally applicable aesthetic principles and terminology of media production through lectures, media examples and non-production projects. Students will identify, discuss and evaluate media elements and their reactions to them. These elements include lighting, color, screen space, time, motion, sound, editing and storytelling.

COM 219 The Television Industry
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course will focus on the examination of the history, structure, regulation, programming and business models of television. Students will explore the forces that affect and drive the entire content delivery business and become familiar with industry terminology. Students will also explore the role of the FCC, the anatomy of various video delivery systems, (broadcast, cable, satellite, streaming, etc.), the relationship between networks and affiliated stations, generation of revenue and the use of audience measurement.

COM 220 Mass Media
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This course offers an opportunity to investigate, evaluate and appreciate the operation and impact of various forms of mass media and provides insight into the media's daily influence on consumers, politics, education and cultures.

COM 225 Why We Write: Writing for Elementary Students
3 lecture hours, 3 credits
Prerequisite: ENG 102

This course prepares education majors to facilitate the writing workshop approach in the elementary classroom to increase young writers' abilities in the writing crafts. The course will introduce education majors to ways to utilize formative and summative assessment methods to assist struggling writers in their own classroom. Utilizing best practices through mini lessons and conferences, education majors will learn how to assist emerging writers through a writing workshop approach.

COS – Counseling/College Studies

COS 102: College and Career Planning
1 lecture hour, 1 credit
Prerequisite: none

The purpose of this course is to promote academic success, retention and personal enrichment. The student will explore career options, set meaningful academic and career goals, develop essential skills such as information literacy and health advocacy skills, and engage in academic behaviors and study strategies that will help the student communicate effectively for personal and professional success.

COS 103 Student Success
3 lecture hours, 3 credits
Prerequisite: Placement in this course is based on basic skills test results

This course provides an orientation to the RCSJ campus resources and academic skills necessary for the student to achieve his/her educational goals. A strong emphasis is placed on the exploration of campus facilities and services. The course focuses on study skills, library skills, self-assessment, wellness, goal-setting, critical thinking and decorum appropriate for students in a college learning environment.

CRJ – Criminal Justice

CRJ 101 Introduction to Criminal Justice

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

This introduction provides an overview of the three major components of the criminal justice system: the police, courts and corrections. It surveys the criminal justice process from initial law enforcement contact through the judicial and correctional phases. In addition to an examination of the roles of the police, courts and corrections, the professional and career opportunities in the criminal justice field will also be explored.

CRJ 201 Criminal Law

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

This is an introduction to the origin and function of the substantive criminal law. Students review and analyze elements of major offenses of common law and under modern penal codes and the available defenses and review leading judicial interpretations of penal codes.

CRJ 205 The Administration of Justice

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

This is a study of legal concepts and procedures from the time of arrest to the time of release or appeal, to conviction of crime. It focuses on trials, indictments, information, bail, grand juries and petit juries.

CRJ 215 Introduction to Criminology

3 lecture hours, 3 credits

Prerequisite: SOC 101 or SOC 102, SOC 104

This course offers a scientific study of crime and criminals; analysis of the nature and extent of crime in the U.S.; causes of crime and criminality; the development of law and our criminal justice system; characteristics and treatment of criminals; patterns of criminal behavior; the impact of crime in our society; an overview of early criminological theories and contemporary sociological, psychological and psychiatric approaches to explaining criminal behavior.

CRJ 225 Community Policing and Crime Analysis

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

This is an overview of community policing and its major components (problem-solving, community partnerships and organizational transformation) and its systematic approach to policing as a philosophy or a program. It introduces theories practiced today with the transformation of police services. In addition it covers new developments affecting crime analysis and forecasting.

CRJ 230 Violent Crime in America

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

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

CRJ 238 Crime on the Internet

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

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

CRJ 250 Constitutional Issues in Criminal Justice

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

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

CRJ 261 Organized Crime in America

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

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

CRJ 262 Domestic and International Terrorism

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

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

CRJ 270 Internship in Law Enforcement/Criminal Justice

1 lecture hour, 150 internship hours, 3 credits

Prerequisites: 30 college credits/12 in major; 3.00 GPA or higher; Law Enforcement or Criminal Justice major

This internship is for Law Enforcement/Criminal Justice majors and familiarizes prospective practitioners with the philosophies and practices of law enforcement/criminal justice while serving as unpaid interns in host agencies. The course is designed to provide students the opportunity to interact with law enforcement/criminal justice professionals in a work environment. The purpose of the course is to facilitate student experience in the nexus between law enforcement/criminal justice theory and practice. Internships will be completed in one approved setting, including, but not limited to: federal, state, county and local law enforcement, juvenile and adult corrections, prosecutor's offices, public defenders, emergency response centers, the state judiciary and others.

CSC – Computer Science

CSC 101 Introduction to Programming

3 lecture hours, 3 lab hours, 4 credits

Prerequisites: MAT 050 or MAT 051 or equivalent and RDG 099 or ENG 104; or permission from the Dean of STEM

Course Fees: A, H

This course presents concepts and principles of high-level programming using Visual Basic. It covers how to design, code, debug and document programs. Students learn structured programming using data files while writing programs on a variety of topics in different fields of engineering, mathematics and science.

CSC 106: Introduction to Data Science**3 lecture hours, 3 credits****Prerequisite:** MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104

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

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

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

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

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

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

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

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

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

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

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

CSC 220 Data Structures and Algorithm**3 lecture hours, 3 lab hours, 4 credits****Prerequisite:** CSC 205**Course Fees:** A, H

This course provides the concepts of data structures through the topics in lists, strings, stacks, queues, trees, graphs, networks, file structures, recursive functions, search algorithms, sorting algorithms, hashing and basics of analysis of algorithms.

CSC 225 Programming in R**1 lecture hours, 2 lab hours, 2 credits****Prerequisites:** MAT 103 and (CSC 111 or CIS 110) or permission from the Dean STEM**Course Fees:** A, G

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

DATA - Data Analytics

DATA 301: Research Methods and Ethical Issues in Data Analysis**3 lecture hours, 3 credits****Prerequisite:** MAT 103

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

DFT – Drafting and Design

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

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

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

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

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

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

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

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

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

This course advances the understanding of computer-aided drafting and design (CADD) by using AutoCAD software. Extensive hands-on projects using AutoCAD are required. Students learn to design and customize linetype, menu, toolbar, title, button, screen and shape commands and PGP. Students also learn to program in AutoLISP.

DMS – Diagnostic Medical Sonography

DMS 101 Introduction to Medical Imaging**1 lecture hour, 1 credit****Prerequisites:** Admission to the program and BIO 105**Program Fee:** \$1,500

This course introduces the fields of medical imaging and how they relate to the general hospital processes and to each other. This course acquaints students with the different types of testing procedures in radiology, ultrasound, CAT scanning and MRI. Emphasis is on ultrasound scans and results as compared to the other imaging methods.

DMS 105 Abdominal Sonography I**2 lecture hours, 2 credits****Prerequisite:** DMS 113

This course begins the study of clinical ultrasound applications pertaining to the abdominal organs and great vessels. Each organ is presented with a review of basic anatomy and physiology, test preparation, instrument set-up, scanning technique, normal findings, normal variants, abnormal findings and pathology and scan review. The liver, gall bladder, biliary tree, pancreas and kidneys are reviewed with regard to clinical ultrasound.

DMS 106 Abdominal Sonography II**2 lecture hours, 2 credits****Prerequisite:** DMS 105**Course Fee:** J

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

DMS 113 Cross-Sectional Anatomy I**2 lecture hours, 2 credits****Prerequisites:** BIO 105 and BIO 106

This course expands the normal anatomy perspective to three-dimensional concepts. It covers anatomical structures and inter-relationships in transverse, sagittal and coronal planes. The emphasis is on the abdominal organs and great vessels. The comparison of actual ultrasound scans is demonstrated to enhance the student's perception.

DMS 117 Ultrasound Physics I**2 lecture hours, 2 credits****Prerequisites:** "C" or higher in DMS 101, BIO 105, PHY 103**Pre or Co-requisites:** BIO 106 and ALH 104**Program Fee:** \$1,500

This course will explore concepts of ultrasound physics. Acoustical variables such as frequency, amplitude, power, intensity, wavelength and speed will be studied. The properties of pulsed waves will be introduced relative to pulse duration, pulse length, pulse repetition, duty factor, intensities, interaction and range equation. This course will also investigate transducers, sound beams, display modes, two-dimensional imaging, real time imaging and image storage.

DMS 126 Introduction to Clinical Practicum and Scan Lab (10 weeks)**8 clinical hours per week, 1.25 scan lab hours per week, 2 credits****Prerequisites:** ALH 104, "C" or higher in BIO 105, BIO 106**Pre or Co-requisites:** ALH 102, DMS 113

This course will expose the students to the internal workings of an imaging department. The student will begin to develop ultrasound skills in a diagnostic imaging department. Activities developing practice skills will take place in the campus scan lab and in hospital or outpatient imaging centers.

DMS 201 Sonographic Interpretation and Techniques I**2 lecture hours, 2 credits****Prerequisite:** DMS 105**Program Fee:** \$1,500

Presentations by faculty and physicians of actual ultrasound cases followed by discussion of identified structures and pathology highlight this course. Review of cross-sectional anatomy as applied to actual scans is covered. Patient diagnosis and follow-up are emphasized.

DMS 202 Sonographic Interpretation and Techniques II**2 lecture hours, 2 credits****Prerequisite:** DMS 201

The major portion of this course is devoted to presentations by students of ultrasound applications that they have used in the clinical setting. Students must demonstrate scans that they performed, explaining the findings that were identified. The critique of scans will be used to strengthen student scanning skills and analysis.

DMS 203 Clinical Practicum I**30 lab hours, 3 credits****Prerequisites:** "C" or higher in DMS 105 and DMS 126**Pre or Co-requisites:** DMS 106, DMS 201, DMS 209**Program Fee:** \$1,500

Students are introduced to their clinical sites and receive hands-on instruction in diagnostic medical sonography techniques.

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

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

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

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

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

Anatomy, physiology, pathology and basic scanning techniques as utilized in ultrasound evaluation of various organs and glands are covered in this presentation.

DMS 209 OB/GYN Sonography I**3 lecture hours, 3 credits****Prerequisite: DMS 116**

Obstetrics and Gynecological Sonography I introduces the female reproductive and urogenital systems as they pertain to ultrasound examination. Starting with the basic female reproductive system, the course expands into early pregnancy sonographic evaluation. Normal and abnormal anatomy and physiology, instrumentation set-up, patient preparation, proper scanning technique and normal and abnormal findings are presented.

DMS 210 OB/GYN Sonography II**3 lecture hours, 3 credits****Prerequisite: DMS 209****Course Fee: J**

Advanced late-stage pregnancy sonography is covered in this course. The same didactic format as OB/GYN Sonography I is followed pertaining to the course presentation. Evaluation of the fetus, placenta and involved structures using ultrasound techniques are demonstrated. Critical measurements and assessment of in-utero fetuses are stressed.

DMS 221 Seminars in Ultrasound**1 lecture hour, 1 credit****Prerequisites: "C" or higher in DMS 226, DMS 202, DMS 204, DMS 222, DMS 210****Co-requisites: DMS 208, DMS 205****Course Fee: J**

On-campus seminar addresses issues that will facilitate the graduates' entry into the career of sonography. Topics include registry examination preparation in Abdomen, OB/GYN and Ultrasound Physics. Resume writing and test-taking strategies will also be introduced.

DMS 222 Vascular Ultrasound**3 lecture hours, 3 credits****Prerequisites: "C" or higher in DMS 106, DMS 201, DMS 203, DMS 209****Pre or Co-requisites: DMS 202, DMS 204, DMS 210, DMS 226**

This course will provide entry-level knowledge of visceral and peripheral vascular systems relative to duplex and color flow Doppler evaluations. The student will be provided with a working knowledge of hemodynamics and Doppler techniques relative to normal pathogenic states.

DMS 226 Ultrasound Physics II**1 lecture hour, 1 credit****Prerequisites: "C" or higher in DMS 106, DMS 201, DMS 203, DMS 209****Pre or Co-requisites: DMS 202, DMS 204, DMS 210, DMS 222****Program Fee: \$1,500**

This course covers the Doppler effect and principles as well as artifacts, quality assurance and bio effects.

ECO – Economics

ECO 100 Introduction to Economics**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

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

ECO 101 Principles of Economics I (Macro)**3 lecture hours, 3 credits****Prerequisite: MAT 105 or higher**

A study of the American economic system with a focus on macroeconomics. Topics studied include the laws of supply and demand, the functioning of the price system, the theory of national income determination, and the role of monetary and fiscal policies in combating the problems of inflation and recession.

ECO 102 Principles of Economics II (Micro)**3 lecture hours, 3 credits****Prerequisite: MAT 105 or higher**

The study of economics with emphasis on microeconomics. Consideration is given to the concepts of elasticity, costs of production, the theory of the firm, wage determination, and the international economy.

ECO 103 Personal Finance**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course introduces the concepts and tools of managing personal finances. It assumes no prior study of economics and is designed to help students understand how to establish a personal financial plan, plan for personal taxes, manage cash, use credit cards, understand consumer lending and insurance and invest in stocks, bonds and funds.

EDU – Education

EDU 105 Educational Technology**1 lecture hour, 1 credits****Prerequisite: RDG 099 or ENG 104**

This course focuses on the use of educational technology in support of student learning and integration of technology into the N-12 curriculum. Strategies to incorporate technology and the web into the school curriculum will be explored. Each student will develop an online portfolio to demonstrate their growth over time and record evidence of their teaching competencies.

EDU 130 Human Exceptionality**3 lecture hours, 3 credits****Prerequisite: PSY 101**

This course provides a background for understanding human exceptionalities throughout the life span. Topics include origins and historical perspective, disability characteristics and definitions, diversity, legal issues, educational and life planning, special education, families and communities and services and support.

EDU 205 History of American Education**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course provides a study of the history of American education from the colonial period to the present. The course will cover preschool through post secondary institutions and will include significant structural developments, major educational figures and contributors, social forces, diversity, conflict and control and other events that have shaped the educational system through various periods of development.

EDU 207 Foundational Practices: Supporting Children using the Positive Behavioral Supports System**3 lecture hours, 3 credits****Prerequisite: PSY 101**

This course is defined to provide educators from various settings with a variety of theoretical approaches in behavior support of students. Students will follow an individual support plan and participate in multi-tiered class-wide and individual plan to support all students. Candidates will also have the opportunity to demonstrate competencies related to positive behavior intervention supports through a variety of opportunities.

EDU 215 Principles and Pedagogies in the Inclusive Classroom**2 lecture hour, 2 credits****Prerequisites: RDG 099 or ENG 104**

Restricted to AS EDU majors only. This course introduces educational principles and pedagogies that promote the use of positive, universal classroom management techniques. Students will be empowered to articulate common academic language as it relates to the cycle of teaching and learning; create connections between educational philosophies, beliefs and dispositions; and embrace universal, proactive supports and strategies for creating effective learning communities to promote a positive school climate.

EDU 216 Seminar: Principles and Pedagogies in the Inclusive Classroom**1 lecture hour, 1 credit****Prerequisites: RDG 099 or ENG 104 and EDU 215**

Restricted to AS EDU majors only. This course introduces educational principles and pedagogies that promote the use of positive, universal classroom management techniques. Students will be empowered to articulate common academic language as it relates to the cycle of teaching and learning; create connections between educational philosophies, beliefs and dispositions; and embrace universal, proactive supports and strategies for creating effective learning communities to promote a positive school climate.

EDU 218 Introduction to Trauma Informed Practices to Promote Social Emotional Development in Educational Settings**3 lecture hours, 3 credits****Prerequisite: PSY 101**

The purpose of this course is to provide an introduction of trauma-informed practices in educational settings that support the social emotional development of all students. Students will begin to explore various methods of trauma informed practices, that includes social emotional development, and how to address systemically through whole school initiatives, individual classrooms, and across content areas.

EDU 220 Foundations of Inclusive Education**3 lecture hours, 3 credits****Co-Requisite/Prerequisite: EDU 130**

This course is an introduction to the foundations of inclusive education. Students will be asked to critically examine teaching and schooling, with an emphasis on identifying effective approaches to supporting the meaningful participation and learning of diverse students. Students will develop a research-based educational philosophy in which they articulate their plan for creating inclusive classroom environments. This course requires a field experience component

EDU 238 Disability as Diversity**3 lecture hours, 3 credits****Pre-Requisites: PSY 102 or PSY 212**

This general education course is designed to foster students' critical thinking about disability and ableism grounded in disability studies, critical pedagogy, and social justice education. Students will examine social and cultural foundations of oppression, learn to disrupt ableism and to position themselves as agents of social change working to build inclusive communities.

EDU 241 Legal and Ethical Issues for Educational Interpreting**3 lecture hours, 3 credits****Pre-Requisite: ENG 101**

This course will look at the unique roles and responsibilities of the educational interpreter and the various interpreter assignments within multiple educational settings. Particular attention will be paid to ethics of the educational interpreter and federal and state laws that outline the provision of educational interpreting as a related service.

EDU 244 Child Development for Educational Interpreters**3 lecture hours, 3 credits****Pre-Requisite: ENG 101**

This course is designed to provide Educational Interpreter students with an overview and an understanding of the development of children, especially of those who are deaf and hard of hearing, from birth to adolescence. The interaction of physical, cognitive, emotional, linguistic, social and cultural factors within developmental stages will be studied. Students will compare the development of children who do not have specialized needs with the development and issues facing children and families with specialized needs.

EDU 247 Curriculum Development and Methods of Instruction for Educational Interpreters**3 lecture hours, 3 credits****Pre-Requisite: ENG 101**

This course is designed to provide educational interpreting students with a basic knowledge of curriculum development and instructional strategies based on the learning theories of students as they are used in the classroom for primary and secondary age students. Students will review the New Jersey Core Curriculum Content Standards (CCCS), and the unique curricula designed for students who are deaf/hard of hearing in the content areas. Instructional strategies for the educational interpreters emphasizing vocabulary acquisition and language comprehension for the students will be addressed. Collaborative strategies for educational interpreters working with regular teachers, special education teachers and related services personnel in various educational settings will be discussed. This course will present assessment of academic materials and completion of learning objectives according to established criteria in the students' individualized educational programs (IEP).

EDU 249 Deaf-Blind Interpreting Strategies for Educational Interpreters
3 lecture hours, 3 credits
Pre-Requisite: ENG 101

This course is designed to provide a strong foundation and build the knowledge and skills of interpreters around deaf-blindness and deaf-blind interpreting strategies. The course will address physiological, linguistic, environmental and cultural components that affect the interpreting processes. The roles and expectations of the interpreter and effective communication strategies will also be covered.

EDU 252 Language Development for the Educational Interpreter
3 lecture hours, 3 credits
Pre-Requisite: ENG 101

This course is designed to provide educational interpreters with an understanding of the principles and theories of childhood language development and will compare the development of language for children with various degrees of hearing loss with the language development of children without educational disabilities. Students will survey language intervention models for students who are deaf and hard of hearing. Additional issues impacting language development in children with hearing loss will also be discussed, including alternative communication forms, bilingual/bicultural issues, assistive technology, and cochlear implants.

EMG – Emergency Management

EMG 101 Introduction to Emergency Management and Homeland Security
3 lecture hours, 3 credits
Pre or Co-requisite: RDG 099 or ENG 104

This course will focus on a comprehensive overview of the discipline of emergency management and homeland security. Attention to mitigation, preparedness, response and recovery will be emphasized. Past disasters will be analyzed as to the impact on policy formation up to and including current FEMA practices. Emergency management will be discussed as it applies to role, duty and ethical issues.

EMG 105 Planning for Emergencies
3 lecture hours, 3 credits
Pre or Co-requisite: RDG 099 or ENG 104

Planning for Emergencies will focus on the measures necessary to prepare for an emergency. This course will cover the key terms used in emergency planning and the differences in man-made and natural disasters. It will also demonstrate various ways of strategizing to mitigate, plan for and recover from man-made and natural disasters.

EMG 201 Incident Command: Theory and Practice
3 lecture hours, 3 credits
Prerequisite: EMG 101

This course will focus on the Incident Command Systems fundamentals, incident/event assessment, unified command structures, incident resource management, planning processes, demobilization and close out. The course will also emphasize the different stages in which the incident command can expand and retract depending on the complexity of the incident.

EMG 205 Global Catastrophes
3 lecture hours, 3 credits
Prerequisite: EMG 105

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

ENG – English

ENG 101 English Composition I
3 lecture hours, 3 credits
Co-requisite: RDG 099 or ENG 104

This course provides students with extensive guided experience in writing essays. The course emphasizes the writing process; critical reading and thinking skills; and the concepts of audience, purpose and form. Attention is devoted to responsible research skills and the basic techniques of MLA documentation.

ENG 101E Enhanced English Composition I
4 lecture hours, 4 credits
Co-requisite: RDG 099 or ENG 104

This course provides students with extensive guided experience in writing essays. The course emphasizes the writing process; critical reading and thinking skills; and the concepts of audience, purpose and form. Attention is devoted to responsible research skills and the basic techniques of MLA documentation.

ENG 102 English Composition II
3 lecture hours, 3 credits
Prerequisite: C or better in ENG 101 or ENG 101E

English 102 requires students to read selected literature, including prose fiction, poems, and plays, and to write a series of critical/analytical essays based on those works, employing proper documentation. Students continue to develop the writing skills, tools, and research methods covered in ENGL 101. As a writing course, ENGL 102 will challenge students to develop the ability to write logically structured critical responses to literary works, which may incorporate connections to other literary works, nonfiction essays, literary criticism, or other scholarly writing.

ENG 103 Survey of World Literature
3 lecture hours, 3 credits
Prerequisites: ENG 101 or ENG 101E and RDG 099 or ENG 104

This course will introduce students to a number of outstanding authors of various nationalities, ethnicities, races and historical periods, ancient to modern, and to the major works of literature these writers produced. Students will study various literary genres and focus on both the enduring qualities of the selected masterpieces and on their relationship to the times and the cultures in which they were written. Several papers, either research or brief critiques, are required.

ENG 104 Readings in Literature
4 lecture hour, 4 credits
Prerequisite: Accuplacer Placement
Co-requisite: ENG 107 or ENG 101E

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

ENG 107 Principles of English Grammar
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course focuses on the basic elements of traditional English grammar, including parts of speech, parts of the sentence, dependent and independent clauses, issues of agreement and consistency, punctuation, and introduction to the basics of diagramming. Students will develop a practical understanding of the fundamentals of grammar through lecture, class discussion, the working out of grammatical problems, evaluating various forms of writing and writing sentences and paragraphs.

ENG 109 Survey of Classical Greek and Roman Literature
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This course introduces students to the literature of ancient Greece and Rome. Students will study the mythological narratives and the various literary forms developed by these cultures.

ENG 203 Literature by Women
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

Literature by Women examines fiction, poetry and drama written by women from medieval to current times, examining their influences and accomplishments in their social and historical contexts. Through class discussion, activities and writing assignments, students will analyze and evaluate important literary themes, such as family, enclosure and escape, creativity and the evolution of women's roles.

ENG 207 Major British Writers from the Middle Ages to the 17th Century
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This course presents selected readings from the literary work of major British writers from the Anglo-Saxon to the Restoration periods. The course focuses on the traditional historical elements of the works as well as the specific innovations and/or artistic achievements they illustrate

ENG 208 Major British Writers from the Eighteenth Century to the Present
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

This course presents selected readings from the literary works of major British writers from the 18th to the 20th centuries. The course focuses on the traditional historical elements of the works as well as the specific innovations and/or artistic achievements they illustrate.

ENG 213 Non-Western Literature
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101 E

Non-Western Literature is designed to provide some awareness and sensibility towards the literature from countries other than the United States and those of Europe. Focusing on ancient and modern works from Asian, African and Latin-American countries, the course emphasizes the experiences, challenges and cultures specific to these countries and their commonalities and differences with those of the Western World.

ENG 215 Immigrant Voices in American Literature
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101 E

Immigrant Voices in American Literature focuses on writings by and about immigrants to the United States starting with the first settlers and closing with 21st century newcomers. Through the study of fiction, poetry, drama, and non-fiction, students will examine the American immigrant experience as reflected in these authors' writings and their influence in the larger American literary cannon.

ENG 222 The Romantic Era in American Literature
3 lecture hours, 3 credits
Prerequisite: ENG 101 or ENG 101E

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

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

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

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

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

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

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

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

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

ENG 237 American Horror Literature and Film
3 lecture hours, 3 credits
Prerequisites: ENG 101 or 101E

In this course, we will track the American Horror tradition from its beginnings in the 18th century, through its various permutations, and into the present day. We will explore the cultural and psychological underpinnings of horror texts across multiple genres (short stories, novels, films, etc.) in hopes of determining what horror tells us about our fears, our desires, our world, and ourselves. Students should be prepared to analyze texts from a variety of literary and theoretical

perspectives and apply tools from psychoanalytic theory, feminist theory, and more. Topics include psychological horror, body horror and (dis)ability, queerness and sexuality, social contract theory, otherness, Black representation, gender and the "male gaze," and horror as social commentary.

ENG 238 *The Films of Alfred Hitchcock*

3 lecture hours, 3 credits

Prerequisite: ENG 101 or ENG 101E

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

ENG 240 *Introduction to Children's Literature*

3 lecture hours, 3 credits

Prerequisite: ENG 101 or ENG 101E

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

ENG 241 *Survey of African American Literature*

3 lecture hours, 3 credits

Prerequisite: ENG 101 or ENG 101E

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

ENG 243 *The Freedom Papers: Britain's Other Literary Treasures*

3 lecture hours, 3 credits

Prerequisite: ENG 101 or ENG 101E

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

ENG 248 *LGBTQ+ Authors and Filmmakers*

3 lecture hours, 3 credits

Prerequisite: ENG101

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

ENR – Engineering Science

ENR 102 *First Year Engineering Clinic I*

1 lecture hour, 2 lab hours, 2 credits

Prerequisites: RDG 099 or ENG 104, MAT 110 or equivalent

Course Fee: G

This course presents an introduction to the practice of engineering through application problems drawn from engineering disciplines chosen to amplify work drawn from supporting courses. It includes topics such as: technical communication formats, analytical tools, computer-based tools, introduction to design, engineering ethics and teamwork.

ENR 103 *First Year Engineering Clinic II*

1 lecture hours, 2 lab, 2 credits

Prerequisite or Corequisite: MAT 108

Prerequisite: Minimum grade of "C" in ENR 102

Course Fees: B, G

This course, a continuation of Freshman Engineering Clinic I, provides expanded treatment of the practice of engineering through applications drawn from engineering disciplines. Project work includes a variety of technical communication topics, analytic and computer-based tools, including the design process, engineering ethics, safety, and teamwork. Lecture topics are supported by a lab component.

ENR 108 *Digital Electronics for Engineers*

2 lecture hours, 2 lab hours, 3 credits

Pre-requisite: MAT 107

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

ENR 200 *MATLAB Programming*

2 lecture hours, 2 lab, 3 credits

Prerequisite: ENR 102

Course Fees: G

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. Lecture topics supported by lab components.

ENR 201 *Sophomore Engineering Clinic I*

3 lab hours, 1 credit

Prerequisite: ENR 103

Course Fees: B, H

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

ENR 202 *Sophomore Engineering Clinic II*

3 lab hours, 1 credit

Prerequisite: ENR 201

Course Fees: B, H

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

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

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

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

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

ENR 212 Mechanics of Materials
3 lecture hours, 3 credits
Prerequisite: ENR 211

This course continues ENR 211 and includes stress, strain, axial loading, torsion, bending and deflection of beams. Analysis of both determinate and indeterminate structural systems is presented.

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

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

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

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

ENVS – Environmental Science

ENVS 101 Environmental Science
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104
Course Fees: C, H

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

ENVS 110 Physical Geology
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104

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

ENVS 201 Research Methods and Data Analysis
2 lecture hours, 2 lab hours, 4 credits
Prerequisite: MAT-103 and BIO-101 or ENVS-101

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

ETEC – Engineering Technology

ETEC 102 Fundamentals of Engineering Technology Design
2 lecture hours, 2 lab hours, 3 credits
Prerequisites: ENGL 060 and MAT 050
Course Fees: G

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.

ETEC 105 Blueprint Reading/Sketching
2 lecture hours, 2 credits
Prerequisites: ENGL 060 and MAT 050
Course Fees: G

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.

ETEC 107 Circuits I
2 lecture hours, 2 lab hours, 3 credits
Prerequisite(s): ENG 104 or RDG 099 and MAT-050
Course Fees: G

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

ETEC 160 CNC Programming
3 lecture hours, 2 lab hours, 4 credits
Prerequisite: ENR 110
Course Fees: G

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.

ETEC 162 Quality Control
2 lecture hours, 5 lab hours, 3 credits
Prerequisites: ENGL 060 and MAT 050
Course Fees: H

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.

ETEC 205 Digital Electronics
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: MAT 105
Course Fees: G

Provides students with information and experience on integrated circuits which are used for analyzing and storing data. Lecture topics are supported by a lab component.

ETEC 211 Advanced Engineering Technology Design
1 lecture hour, 4 lab hours, 3 credits
Prerequisite: ENR 110
Course Fees: G

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.

ETEC 218 Programmable Logic Controllers
2 lecture hours, 2 lab hours, 3 credits
Prerequisite(s): IT 111 or permission of instructor

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

ETEC 227 Circuits II
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: ETEC 107
Course Fees: G

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.

ETEC 240 Pneumatics and Hydraulic Automation
3 lecture hours, 3 lab hours, 4 credits
Pre or Corequisite: ETEC-218 Programmable Logic Controller or permission of the instructor
Course Fees: H

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

ETEC 241 Robotics and Motion Control
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: ETEC 211
Course Fees: G

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

ETEC 244 Instrumentation & Measurement
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: MAT 108 or permission of instructor
Course Fees: G

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.

FRE – French

FRE 101 Elementary French I
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

Introductory grammar and pronunciation form the basis of this course, designed to develop communicative skills in French. Oral and written exercises, reading of easy prose and dictation are the points of departure.

GEO – Geography

GEO 102 Cultural Geography
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

Cultural geography is a blend of several social sciences, including geography, anthropology, political science, history, economics and earth science. Its purpose is to analyze and synthesize concepts affecting varied cultural environments throughout the world. Visual imagery through maps, field trips, Internet exploration and video presentations are stressed as methods to identify and analyze cultural patterns.

GEO 115 Introduction to Geographic Information Systems
2 lecture hours, 2 lab hours, 3 credits
Prerequisite: RDG 099 or ENG 104
Course Fees: A, G

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

GER – German

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

Introductory grammar and pronunciation form the basis of this course, designed to develop communicative skills in German. Oral and written exercises, reading of easy prose and dictation are points of departure.

HIS – History

HIS 101 History of Western Civilization I
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This is a survey of the political, social, economic, cultural and religious forces and movements essential to understanding the development of our civilization from ancient times to 1648.

HIS 102 History of Western Civilization II
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This is a survey of the political, social, economic, cultural and religious forces and movements essential to understanding the development of our civilization from 1649 to the present.

HIS 103 History of the United States I
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This is a study of American history from the Colonial Era through the Civil War. Included is a broad survey of the development of American democracy with emphasis on the growth of institutions and ideas as they were brought from Europe and modified and developed here. Special attention is given to the development of the national Constitution.

HIS 104 History of the United States II
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course continues the study of American political, social and intellectual development from 1865 to the present. Topics include Reconstruction, industrial and transportation revolution, labor movement, the crisis in agriculture, expansion and the new Manifest Destiny and problems of the twentieth century.

HIS 107 African-American History
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104
Pre or Co-requisite: ENG 101

This course is a survey of the major social, economic and cultural developments within the African-American community from its African origins to the present. The course emphasizes the formation of African-American identity and culture, demographic and migration patterns, contributions of African-Americans to the making of America and an in-depth analysis of legal and political status as it pertains to the history of a people.

HIS 204 The First 100 Years of the American Automobile
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course provides a basic understanding of the history and significance of the automobile industry and how it has been intertwined with American history, culture and everyday life. The course will cover the early days of the automobile with discussions about Henry Ford, Billy Durrant, the formation of General Motors, key designers and more. The course will highlight challenges facing the automobile industry during each decade of the twentieth century.

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

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

HIS 206 World History II
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

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

HPE – Health, Physical Education and Recreation

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

HPE 104 Health and Fitness for the Individual
1 lecture hour, 2 lab hours, 2 credits
Course Fee: G

Students study how health and fitness affect the individual physiologically and psychologically. A variety of methods and techniques used to enhance health and physical fitness are presented. Actual physical activity is part of the course.

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

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

HPE 106 Health and Wellness Promotion in Physical Therapy
1 lecture hour, 1 credit
Prerequisite: Grade C or better in ENG 101 or ENG 101E
Co-requisite: PTA 101

This course will identify methods for physical therapy professionals to be effective change agents in the promotion of public health, prevention, and wellness initiatives. Effective communication strategies between health practitioners and patients will also be explored. Students will be expected to participate in a nutritional self-assessment identify opportunities for participation in service learning activities, and develop a group wellness project (This course is only available to students enrolled in the PTA program.)

HPE 111 Cardiovascular Fitness Activities
2 activity hours, 1 credit
Course Fee: G

This participatory course introduces types of aerobic-based activities available. The multiple health benefits associated with practicing a variety of cardiovascular fitness activities will be emphasized.

HPE 112 Introduction to Swimming
2 activity hours, 1 credit
Course Fee: G

Students in this course will learn and perform basic swimming skills at the introductory level. Class participants should be either novice or intermediate swimmers. Students may be required to take this class to prepare them for HPE 231 Specialized Swimming.

HPE 113 Physical Fitness Activities
2 activity hours, 1 credit
Course Fee: G

This course is designed to improve cardiovascular fitness and muscular strength and endurance through participation in various activities (including aerobic exercise, weight training and circuit training) and to provide basic, related health and wellness information.

HPE 117 Weight Training Activities
1 lecture hour, 2 activity hours, 2 credits
Course Fee: G

This course is designed to improve muscular strength and endurance through participation in various resistance activities (including free weights, cybex and universal circuit training) and to provide basic, related health and wellness information.

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

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

HPE 136 Nutrition
3 lecture hours, 3 credits
Co-requisite: RDG 099 or ENG 104

This course provides students with basic nutrition information that can be incorporated into daily life. Topics include explorations of the controversies and myths concerning food, diet and weight control.

HPE 150 Golf
2 activity hours, 1 credit
Course Fee: G

This course helps students develop efficient body movements through practice of fundamental golf skills. The strategies of play, history, rules and etiquette of golf are also covered.

HPE 151 Tennis
2 activity hours, 1 credit
Course Fee: G

This course helps students develop efficient body movements through practice of basic tennis skills as well as advanced strokes. Scoring, rules and singles and doubles strategies are also covered.

HPE 152 Bowling
2 activity hours, 1 credit
Course Fee: G

This course helps students develop efficient body movements through practice of fundamental bowling skills. The scoring, strategies of play, history, rules and etiquette of bowling are also covered.

HPE 154 Volleyball
2 activity hours, 1 credit
Course Fee: G

This course helps students develop efficient body movements through practice of fundamental volleyball skills. The scoring, strategies of play, history, rules and etiquette of volleyball are also covered.

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

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

HPE 192 Contemporary Health I**3 lecture hours, 3 credits****Pre or Co-requisite: RDG 099 or ENG 104**

This course, the first in a series of two, provides students with a background in current health issues. Psychological health, human development, wellness, drug use and abuse, and mental and emotional health addictions are some of the topics discussed.

HPE 193 Contemporary Health II**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course, the second in a series of two, is a general knowledge survey course which provides students with a general scope and understanding of current health issues that occur in the human lifecycle. Topics addressed include sexuality and family life, personal health, chronic and infectious diseases, environmental health and consumerism.

HPE 201 Health Science**3 lecture hours, 3 credits****Co-requisite: RDG 099 or ENG 104**

Principles, problems and practices related to the health of the individual and community are discussed. Topics include the role of health agencies, mental health, alcohol and drugs, sexually transmitted diseases, nutrition and physical fitness.

HPE 209 Individual and Dual Sports I**1 lecture hour, 2 activity hours, 2 credits****Course Fee: G**

This course builds an understanding of how to teach tennis and badminton. Basic skills, scoring, strategies of play, history, rules and etiquette are covered. Proper teaching and coaching techniques are emphasized and practiced.

HPE 211 Consumer Health Decisions**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course examines the rights and responsibilities of a consumer faced with increasing amounts of information related to his or her overall well-being. It examines the major problem of health fraud and the components of scientific research. The role of advertising is explored, as well as sound principles for purchasing nutrition, fitness and other health-related products and services. Students learn important concepts related to health insurance and hospitals, traditional and alternative medical care and how to better manage the decisions they make.

HPE 214 Principles Health & Physical Education**Lecture Hours/Credits: 3/3****Prerequisite: ENG 104 or ENG 101 or ENG 101e**

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

HPE 221 Team Sports I**1 lecture hour, 2 activity hours, 2 credits****Course Fee: G**

This course builds an understanding of how to teach basketball, volleyball, softball and baseball. Basic skills, scoring, strategies of play, history, rules and etiquette are covered. Proper teaching and coaching techniques are emphasized and practiced.

HPE 222 Team Sports II**1 lecture hour, 2 activity hours, 2 credits****Course Fee: G**

This course builds an understanding of how to teach soccer, field hockey, lacrosse and wrestling. Basic skills, scoring, strategies of play, history, rules and etiquette are covered. Proper teaching and coaching techniques are emphasized and practiced.

HPE 231 Specialized Swimming**1 lecture hour, 2 activity hours, 2 credits****Prerequisites: HPE 112 or students must demonstrate their ability to tread water for 5 minutes and successfully swim 10 laps using various swimming strokes.****Course Fee: G**

This course teaches skills necessary to be a swimming instructor. A variety of swimming strokes are practiced. Teaching techniques, basic water safety skills, diving and water sports are also covered.

HPE 233: Safety, First Aid, CPR and Injury Prevention**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104****Course Fee: C**

This course introduces principles of athletic training and covers how to provide First Aid and CPR in most situations where emergency care is needed. Emphasis is on the responsibilities of the athletic trainer, conditioning and training of the athlete, prevention and care of athletic injuries and taping. Opportunities are provided for students to gain practical experience. An American Heart Association Basic Life Support for the Health Care Providers Certification is earned by all students who successfully complete this course.

HPE 238 Principles of Coaching**2 lecture hours, 2 credits**

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

HPE 240 Introduction to Health, Physical Education and Recreation**3 lecture hours, 3 credits****Co-requisite: RDG 099 or ENG 104**

This is an overview of the health, physical education and recreation field and assists students in choosing a career path.

HPE 245 Motor Development and Motor Learning**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This is an introductory course that includes the study of locomotor and non-locomotor movement, manipulative skills and developmental and environmental factors that affect learning in these motor skill areas. The course will focus on motor behavior changes. Students will also be introduced to motor learning theories and concepts, assessment and development of motor skills in various settings.

HPE 252 Foundations of Fitness**3 activity hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course is designed to provide students with insight into applying fitness training principles to various populations, and into the development of health and skill related fitness in individuals. Students will develop skill in designing fitness programs for individuals with differing needs and abilities. Throughout this course the concept of providing challenging yet success assured learning experiences for fitness development will be emphasized.

HPE 257 Pedagogy and Instructional Practices in Health and Physical Education**3 lecture hours, 3 credits****Prerequisite: HPE 214 Principles of Health and Physical Education**

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

HPE 260 Exercise Physiology**3 lecture hours, 3 credits****Prerequisites: BIO 105, BIO 106, HPE 104 and RDG 099 or ENG 104**

This course examines the physiological effects of exercise on the human body. Major topics include energy use, the muscular, cardiovascular, respiratory and nervous systems, metabolism, body composition, temperature regulation and training guidelines. Practical application of topics is emphasized.

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

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

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

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

ITA – Italian**ITA 101 Elementary Italian I****3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course introduces grammar and pronunciation of Italian and includes practice in speaking, comprehension, reading and writing.

ITA 102 Elementary Italian II**3 lecture hours, 3 credits****Prerequisite: ITA 101**

This course involves more advanced grammar concepts in conjunction with practice in speaking, comprehension, reading and writing Italian.

LEN – Law Enforcement/Criminal Justice**LEN 102 Police Organization and Administration****3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This is a study of contemporary police principles and practices with an emphasis on accepted administrative methods for achieving law enforcement objectives. Basic organization and administrative decisions are approached from the point of view of police chiefs, commanders and administrators. Decisions concerning personnel, community relations, operations, administration, auxiliary and technical services, budgeting, records, research and inspection are studied.

LEN 108 Police and Personnel Management**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course introduces students and in-service law enforcement personnel to methods and techniques involved in becoming an effective police supervisor. Topics include the police supervisory role in problems that occur in the field, as well as administrative, legal and personnel problems.

LEN 210 Contemporary Issues in Law Enforcement**3 lecture hours, 3 credits****Prerequisites: CRJ 201 and CRJ 215**

This is an examination of controversial subjects related to law enforcement, the philosophy of law enforcement, the role and function of police in a democratic society, the impact of American social problems on law enforcement, the complexity of the task and the importance of community relations.

LEN 221 Principles of Criminal Investigation**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

Topics include investigation, methodology in crime, modus operandi, sources of information, interrogation and preliminary follow-up investigations. The abilities, techniques and methods employed in a criminal investigation from the time the report is received to the ultimate conviction of the perpetrator are studied. The potentials of scientific research, the use of communications and records in criminal investigation and the application of logic and scientific method to the investigation of criminal evidence are included.

LEN 227 Introduction to Corrections**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course is an overview of the correctional system in America and examines probation, parole, jails, prisons and community-based programs. Included are the processes, organization and trends in these areas and a philosophical and theoretical consideration of the correct process.

LEN 234 Introduction to Security**3 lecture hours, 3 credits****Prerequisite: RDG 099 or ENG 104**

This course introduces the systems, organization, design and implementation of security systems, including government, business, industry and proprietary.

MAT – Mathematics

MAT 010 Introductory College Mathematics

3 lecture hours, 3 credits

Pre or Co-requisite: RDG 099 or ENG 104

Does not satisfy program requirements in mathematics

This is a developmental course for students whose placement test scores place them at this level or those who feel they need to review the fundamentals of mathematics. This course provides a more sophisticated level of understanding of basic concepts and includes basic arithmetic and problem solving.

MAT 011 Introductory College Mathematics Accelerated

1 lecture hour, 1 credit

Prerequisite: Placement Score

Pre or Co-requisite: RDG 099 or ENG 104

Does not satisfy program requirements in mathematics

This course will develop math skills for students whose placement test scores place them at this level, or those who feel they need to review the fundamentals of mathematics. This course provides a sophisticated level of understanding of basic concepts and includes basic arithmetic and problem solving.

MAT 050 Elementary Algebra

3 lecture hours, 3 credits

Prerequisites: MAT 010, MAT 011 or equivalent

Pre or Co-requisite: RDG 099 or ENG 104

Does not satisfy program requirements in mathematics

This is a developmental course for students whose placement test scores place them at this level or those with little or no previous experience in algebra. Emphasis is on operations with signed numbers, evaluation and simplification of algebraic expressions, solutions to linear equations with applications, exponents, polynomials, factoring and graphing.

MAT 051 Elementary Algebra Review

1 lecture hour, 1 credit

Prerequisite: Placement Score or MAT 050 with a grade of "P" or higher

Pre or Co-requisite: RDG 099 or ENG 104

Does not satisfy program requirements in mathematics

This is a developmental course to review math skills for students whose placement test scores place them at this level or those with little or no previous experience in algebra. Emphasis on operations with signed numbers, evaluation and simplification of algebraic expressions, solutions to linear equations with applications, exponents, polynomials, factoring and graphing.

MAT 100 Foundations of Mathematics I

3 lecture hours, 3 credits

Prerequisites: Placement score of 50–75, appropriate major and RDG 099 or ENG 104

In this course, students apply the fundamentals of arithmetic and basic algebra to solve practical problems. Topics include real number properties and applications, an introduction to algebra, counting methods and probability.

MAT 101 Concepts of Mathematics

3 lecture hours, 3 credits

Prerequisites: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104

This course in finite mathematics involves an investigation of the logical methods of problem solving. Topics include set theory, symbolic logic, counting methods, probability and statistics.

MAT 102 Survey of Mathematics

3 lecture hours, 3 credits

Prerequisites: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104

This course provides a review of the fundamental mathematical concepts that support common problem solving. Topics include algebra, geometry, coordinate geometry, mathematical systems, matrices and an overview of common financial mathematics.

MAT 103 Statistics

3 lecture hours, 3 credits

Prerequisites: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104

This is an introduction to the fundamental concepts and methods of statistics. Topics include elementary probability, measures of central tendency and dispersion, binomial and normal distributions, hypothesis testing, linear regression and correlation.

MAT 105 Intermediate Algebra

4 lecture hours, 4 credits

Prerequisites: RDG 099 or ENG 104 and grade of "C" or higher in MAT 050 or MAT 051 or equivalent

This is a systematic study of topics in intermediate algebra, commencing with the development of the real number system and its properties. Topics include special factoring methods, solutions to linear and quadratic equations, rational expressions, absolute values, inequalities, graphing, radicals, exponents and functions.

MAT 107 Pre-Calculus and Mathematical Analysis

4 lecture hours, 4 credits

Prerequisite: Three years of high school Mathematics, including a semester of Trigonometry or MAT 110

This course prepares students for the study of calculus. Topics include the algebra of functions, sequences, mathematical induction, equations of a line, slopes, angles of intersection, conic sections, logarithmic and exponential functions, a review of trigonometry, polar coordinates and an introduction to limits.

MAT 108 Calculus I

4 lecture hours, 4 credits

Prerequisites: High school Trigonometry and Analytical Geometry or MAT 107

Topics include limits, continuity, differentiation techniques and applications of algebraic, trigonometric, and transcendental functions, as well as definite and indefinite integration techniques and applications of algebraic, trigonometric, and transcendental functions.

MAT 109 Technical Mathematics

3 lecture hours, 3 credits

Prerequisite: Admission to Automotive Technology program

This is a systematic study of ratio and proportion, practical algebra, metric measures, plane and solid geometry as they are applied to measurements and definitions, horsepower, speed ratios and gears.

MAT 110 Algebra and Trigonometry

4 lecture hours, 4 credits

Prerequisite: MAT 105

This is a systematic study of topics of algebra and trigonometry with emphasis on trigonometry.

MAT 114 College Algebra**3 lecture hours, 3 credits****Prerequisites: MAT 105**

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.

MAT 115 College Geometry**3 lecture hours, 3 credits****Prerequisites: MAT 050, MAT 051 or equivalent and RDG 099 or ENG 104**

This course presents the fundamentals of plane, solid and non-Euclidean geometries. Topics include the history of mathematical thought and reasoning, measurement, congruence, similarity, parallelism, perpendicularity and methods of proof.

MAT 120 Structures of Mathematics**3 lecture hours, 3 credits****Prerequisites: MAT 050, MAT 051, MAT 100 or equivalent and RDG 099 or ENG 104**

This course concerns the development of number systems and algebraic structures, including the natural numbers, the integers, rational numbers, real and complex numbers. Students will be required to reason mathematically, solve problems and communicate mathematics effectively at different levels of formality, using a variety of representations of mathematical concepts and procedures.

MAT 121 Structures of Mathematics II**3 lecture hours, 3 credits****Prerequisite: MAT 120**

This course is designed primarily for elementary education majors. The course will require students to investigate problems in order to deepen their conceptual and procedural understanding in the areas of algebra, data analysis, probability, geometry, measurement, and systematic listing and counting.

MAT 122 Calculus II**4 lecture hours, 4 credits****Prerequisite: MAT 108**

This is a study of integral calculus and its applications. Topics include areas bounded by curves, volumes and surface areas of solids of revolution, arc length, integration by special methods, improper integrals, transcendental functions and infinite sequences and series. The class also covers the study of parametric equations and polar coordinates.

MAT 151 Mathematics for Management**4 lecture hours, 4 credits****Prerequisite: MAT 105 or equivalent**

This is a study of those applications of algebra necessary for business analysis. Topics include functions, equations and inequalities, matrix operations, linear programming, sequences and mathematics of finance as they apply to the management sciences.

MAT 152 Applied Calculus**4 lecture hours, 4 credits****Prerequisite: MAT 107 or MAT 151**

This is a study of differential and integral calculus with emphasis on applications. Topics include differentiation, rates of change, optimization, logarithmic and exponential functions, partial derivatives and integration.

MAT 200 Foundations of Mathematics II**3 lecture hours, 3 credits****Prerequisite: MAT 100 or MAT 105**

The fundamentals of arithmetic and algebra are applied to solve problems involving consumer credit, compound interest, annuities, discount, commission, markup, inventory, depreciation, basic statistics and graphing.

MAT 201 Discrete Mathematics**3 lecture hours, 3 credits****Prerequisite: MAT 107**

This course is directed toward computer science and mathematics majors. Topics include sets, relations, functions, logic, induction, combinatorics, Boolean algebra, recurrence relations digraphs and trees. Emphasis is on the solution of problems.

MAT 202 Linear Algebra**3 lecture hours, 3 credits****Prerequisite: MAT 108 or MAT 122**

This course is an in-depth study of mathematical proofs and linear algebra. Topics will include specific skills and abstract approaches for mathematical proofs and basic computational techniques, practical applications and theoretical results of linear algebra.

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

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

MAT 205 Differential Equations**4 lecture hours, 4 credits****Pre or Co-requisite: MAT 221**

This is a study of ordinary differential equations with applications for higher mathematics and engineering. Topics include differential equations of first or higher order, linear differential equations with constant and variable coefficients, solutions by analytical and numerical methods, series solutions and Laplace and inverse transforms.

MAT 221 Calculus III**4 lecture hours, 4 credits****Prerequisite: MAT 122**

This course expands the concepts from MAT 108 and MAT 122 to include vector treatment of three-dimensional geometry, partial derivatives of functions of two or more independent variables, multiple integrals, indeterminate forms, parametric equations and polar coordinates.

MAT 229 Reasoning and Proof**4 lecture hours, 4 credits****Prerequisite: MAT 113****Pre or Co-requisite: MAT 201**

This course is about writing mathematical proofs precisely and proving statements by various methods. This will involve writing precise statements, writing precise definitions of various concepts and applying mathematical reasoning to prove a statement. All of this will lead us to writing proofs precisely, learning interesting techniques and building intuition through the transition into advanced mathematics.

MUS – Music

MUS 101 Music Appreciation I

3 lecture hours, 3 credits

Pre or Co-requisite: ENG 101 or ENG 101E

MUS 101 appraises the art of music through active listening, introducing basic musical concepts and developing listening perception. Recorded and visual materials are utilized in studying the elements, forms and styles of music with the aim of stimulating a discriminating understanding and enjoyment of various musical styles. The course is organized topically, encouraging students to discover commonalities among widely differing types of music.

MUS 103 Music In Childhood Education

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

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

MUS 106 Choral Workshop I

2 studio hours, 2 lecture hours, 3 credits

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

MUS 107 Choral Workshop II

2 studio hours, 2 lecture hours, 3 credits

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

MUS 108 Choral Workshop III

2 studio hours, 2 lecture hours, 3 credits

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

MUS 109 Choral Workshop IV

2 studio hours, 2 lecture hours, 3 credits

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

MUS 113 Fundamentals of Musicianship

3 lecture hours, 3 credits

Prerequisites: RDG 099 or ENG 104

This course is designed for students with little or no prior musical training. Students will gain a working knowledge of the fundamentals of music from the ground up, including notation of pitch and rhythm, and basic precepts of music such as key signatures, scales, and chords. Rudimentary ear training, sight-singing, and keyboard skills will also be developed. This course requires no previous musical experience; successful completion of this course will provide a foundation for the further study of music theory.

MUS 118 : American Popular Music

3 lecture hours; 3 credits

Prerequisite: RDG 099 or ENG 104

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

MUS 121 History of Musical Theatre

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

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

MUS 126 History of Music

3 lecture hours, 3 credits:

Catalog Description

Prerequisite: RDG 099 or ENG 104

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

MUS 203 American Music

3 lecture hours, 3 credits

Prerequisites: MUS 101 and RDG 099 or ENG 104

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

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

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

MUS 212 Music Theory I**3 lecture hours, 3 credits**

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

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

MUS 215 Aural Skills I**1 lecture hour, 1 credit**

Prerequisites: MUS 112 and grade of "C" or higher or successful placement exam

Co-requisite: MUS 212

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

MUS 220 Music Theory II**3 lecture hours, 3 credits****Prerequisite: MUS 212; Co-Requisite: MUS 225**

In this course, you will continue the study of tonal harmony and voice leading, both through written work and analysis. We will continue to focus mostly on diatonic harmony; however, we will also begin to explore techniques of modulation. In the second half of the semester we will learn about musical forms, part writing and other skills in compositional techniques.

MUS 225 Aural Skills II**1 lecture, 2 lab hours, 1 credit****Prerequisite: MUS 215; Co-Requisite MUS 220**

This course is the second course in a sequence of two sight singing and ear training courses designed for the student who is majoring in music. It is designed to be taken concurrently with Music Theory II.

It is a continuation of the learning of musical skills taught in Aural Skills I. This class will develop all facets of students' aural skills, including sight-singing, rhythms, basic conducting, score-reading, sing-and-play, and dictation (rhythmic, melodic, and harmonic).

NMT – Nuclear Medicine Technology

NMT 106 Radiation Safety and Biology**1 lecture hour, 1 credit**

Prerequisites: Acceptance into the program. Grade of "C" or higher in PHY 103, CHM 111, BIO 105 and BIO 106

Pre or Co-requisites: Grade of "C" or higher in ALH 107 and NMT 107

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

NMT 107 Radiation Physics**2 lecture hours, 2 credits**

Prerequisites: Acceptance into the program. Grade of "C" or higher in PHY 103, CHM 111, BIO 105 and BIO 106

Pre or Co-requisites: Grade of "C" or higher in ALH 107 and NMT 106

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

NMT 114 Clinical Imaging Procedures I**2 lecture hours, 2 credits**

Prerequisites: Acceptance into the program. Grade of "C" or higher in: CHM 111, PHY 103, BIO 105 and BIO 106

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

NMT 116 Basic Nuclear Medicine Procedures**1 lecture hour, 2 credits, 3 lab hours**

Prerequisites: Acceptance into the program. Grade of "C" or higher in: PHY 103, CHM 111, BIO 105 and BIO 106

Course Fee: G

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

NMT 205 Clinical Internship I**450 clinical hours, 10 credits**

Prerequisites: Grade of "C" or higher in: NMT 106, NMT 107, ALH 107, NMT 114 and NMT 116.

Program Fee: \$1,500

This course introduces students into the clinical environment with directed practice in nuclear radiopharmacy, clinical imaging procedures and basic instrumentation.

NMT 210 Clinical Imaging Procedures II**1 lecture hour, 1 credit**

Prerequisites: Grade of "C" or higher in: NMT 106, NMT 107, ALH 107, NMT 114 and NMT 116

Pre or Co-requisite: Grade of "C" or higher in NMT 205, NMT 215

This course examines scanning protocols for additional nuclear medicine procedures. Focus is on radiopharmaceutical dose, patient preparation, route of administration, indications, contraindications, imaging criteria and scan interpretation.

NMT 215 Radiopharmacy**1 lecture hour, 2 credits, 3 lab hours****Prerequisites:** Grade of "C" or higher in CHM 111, NMT 106, NMT 107, ALH 107, NMT 114 and NMT 116**Pre or Co-requisite:** Grade of "C" or higher in NMT 205 and NMT 210**Course Fee:** G

This course focuses on developing the didactic knowledge and laboratory practice of all aspects of nuclear pharmacology including radiopharmaceutical kit preparation, Department of Transportation radioactive package transportation guidelines, package receipt, monitoring, disposal and inventory.

NMT 227 Clinical Internship II**450 clinical hours, 10 credits****Prerequisites:** Acceptance in the program, grade of "C" or higher in: NMT 205, NMT 210 and NMT 215**Pre or Co-requisite:** Grade of "C" or higher in NMT 230 and NMT 233**Program Fee:** \$1,500

This course completes the clinical component by providing clinical practice of advanced instrumentation procedures, clinical imaging procedures and radiopharmaceutical preparation and administration.

NMT 230 Nuclear Instrumentation and Statistics**1 lecture hour, 2 credits, 3 lab hours****Prerequisites:** Grade of "C" or higher in: NMT 205, NMT 210 and NMT 215**Pre or Co-requisite:** Grade of "C" or higher in NMT 227 and NMT 233**Program Fee:** G

This course includes the study of the components, operating principles and quality control procedures of nuclear and fusion imaging instrumentation, including Computed Tomography. The laboratory component provides the student with the opportunity to analyze imaging and quality control statistical data to determine the most appropriate course of action.

NMT 233 Clinical Imaging Procedures III**1 lecture hour, 1 credit****Prerequisites:** Grade of "C" or higher in: NMT 205, NMT 210 and NMT 215**Pre or Co-requisite:** Grade of "C" or higher in NMT 227 and NMT 230

This capture course completes the didactic instruction of NMT clinical imaging procedures.

NTR – Nutrition

NTR 101 Nutrition for Health Professions**3 lecture hours, 3 credits****Prerequisite:** RDG 099 or ENG 104

This course will provide students interested in pursuing a healthcare profession with scientific, evidence-based information on human nutrition. Topics covered include food choices that impact health; the digestive system; metabolism; the effects of both macro and micronutrients on health; nutrition's applications to both health and disease; and nutrition's requirements throughout life. Nutrition's impact in morbidity and mortality is a main focus of this course. Students will assess their own personal diet patterns and will develop nutrition plans incorporating healthy eating strategies. Throughout the course, the students will critically evaluate sources of nutrition information for reliability.

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

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

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

NURS – Nursing

NURS 102 Dosage Calculations for Nurses**1 lecture hour, 1 credits****Pre-requisite:** MAT 050 or MAT 051

This course will include a review of essential math concepts for dosage calculation including fractions, percentages, ratios, measurements and conversions. Practice and assessment tests will include problems featuring medication administration, including oral, intravenous and parenteral routes. Accreditation standards of medication administration will be emphasized.

NURS 105 Introduction to Nursing Informatics**1 lecture hour, 1 credit****Prerequisite:** RDG 099 or ENG 104 and NURS 110 or Registered Nurse license or Licensed Practical Nurse license.

This course will introduce the student to important informatics tools that are currently being utilized in healthcare to ensure safe and quality care. Electronic Health Records (EHR), telehealth, personal reference management software, Evidence-Based Practice (EBP), and HIPAA will be emphasized.

NURS 107 Pharmacology for Health Professionals**3 lecture hours, 3 credits****Prerequisite:** BIO 106

This course introduces students to the principles of 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.

NURS 110 Nursing I**4 lecture hours, 90 clinical hours, 6 credits****Prerequisites:** RDG 099 or ENG 104**Co-requisites and Prerequisites:** BIO 105, PSY 101, ENG 101, ENG 101E**Co-requisite:** NURS 111**Program Fee:** \$1,750

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

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

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

NURS 115 LPN to RN Track**3 lecture hours, 3 credits****Prerequisites – Acceptance into the Nursing Program. AND BIO 105, PSY 101, ENG 101/ENG 101E**

This course introduces the Licensed Practical Nurse (LPN) to the role of the registered professional nurse (RN) and is the foundation for all subsequent nursing courses. The nurse's role in promotion, maintenance and restoration of health is explored within the context of a research and practice-oriented profession in addition to teamwork, collaboration, and effective communication. Nursing trends, the teaching learning process and the art and science of caring are discussed. Legal and ethical aspects of the profession are explored. A component of this course will familiarize the student with technology utilized within RCSJ and the Nursing Program. NOTE: Upon successful completion of NURS 115 LPN-RN students will matriculate into generic track.

NURS 120 Nursing II**6 lecture hours, 135 clinical hours, 9 credits****Prerequisite:** NURS 110, 111**Corequisite and Prerequisite:** BIO 106, ENG 102**Corequisite** NURS 121**Program fee:** \$1,750

This course builds on previously acquired knowledge and learned behaviors of health, wellness promotion and disease prevention. Students will implement evidence-based practice to provide safe and effective care to adults and childbearing and childrearing families. Concepts from pharmacology, nutrition, pathophysiology, and safety across the lifespan are utilized to provide care in a variety of healthcare settings.

NURS 121 Nursing II Lab**2.5 lab hours, 1 credit****Prerequisite:** NURS 110, 111**Corequisite and Prerequisite:** BIO 106, ENG 102**Corequisite** NURS 121**Course fee:** G

This course builds on acquired knowledge and learned behaviors and requires the demonstration of clinical nursing skills necessary for student progression. Laboratory exercises incorporate real world situational experience with healthcare professionals on the College campus.

NURS 126 Nursing Reflections

Prerequisite: Completion of at least one semester of nursing education or permission of the Dean of Nursing and Health Professions

This course is required for the student nurse who has experienced a semester of absence from the RCSJ nursing curriculum. Emphasis is placed on refreshing knowledge and skills to facilitate success in the classroom and clinical components of future nursing (NURS) courses. All activities will take place on the College campus.

NURS 210 Nursing Global Issues and Trends**2 lecture hours, 2 credits****Prerequisites:** NURS 120, NURS 121, BIO 106, ENG 102

This course focuses on current nursing issues and trends with a global perspective. Topics include the evolution of nursing practice, leadership strategies, and clinical decision-making skills based on ethical and legal principles of care.

NURS 230 Nursing III**4 lecture hours, 180 clinical hours, 8 credits****Co-requisite and Prerequisite:** BIO 215**Co-requisite:** NURS 231 – Nursing III Lab**Program Fee:** \$1,750

This course builds on previously acquired knowledge and learned behaviors of health, wellness promotion, and disease prevention. Students will collaborate with a variety of healthcare team members to provide safe and effective care to patients across the lifespan and includes an emphasis on mental and behavioral well-being. Concepts from pharmacology, nutrition, pathophysiology, and safety across the lifespan are incorporated to provide care in a variety of healthcare settings. Clinical experiences occur in a variety of health care settings.

NURS 231 Nursing III Lab**2.5 lab hours, 1 credit****Co-requisite and Prerequisite:** BIO 215**Co-requisite:** NURS 230 – Nursing III**Program Fee:** G

This course focuses on the performance of complex advanced nursing skills necessary for student progression. The expansion of knowledge and behaviors is integrated. Laboratory exercises incorporate real world situational experience with healthcare professionals on the College campus.

NURS 240 Nursing IV**5 lecture hours, 90 clinical hours, 7 credits****Co-requisite and Prerequisite:** NURS 230, NURS 231**Program Fee:** \$1,750

This course incorporates all concepts of previously acquired knowledge and learned behaviors of health, wellness promotion, and disease prevention. The student learns to analyze, synthesize and evaluate complex and advanced concepts from pharmacology, nutrition, pathophysiology, and safety across the lifespan. Clinical activities are in a variety of healthcare settings.

NURS 245 Transition to Practice**2 lecture hours, 90 clinical hours, 4 credits****Prerequisites:** NURS 240

Course Fee: Cost of HESI Exit exam and curriculum review course

This course focuses on integration of knowledge, continued development of clinical judgment and life-long learning. It provides students with an opportunity for a concentrated capstone clinical experience in a selected area with an individual Registered Nurse Preceptor. Learning through experience is emphasized while preparing students for transition to Registered Nurse practice.

PHI – Philosophy

PHI 101 Introduction to Philosophy

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

Aims, functions and methods of philosophy are examined. Topics include appearance and reality, concepts and judgments, and language, words and meaning. Selected readings from great philosophers are assigned to acquaint students with systematic approaches to logic, ethics and aesthetics.

PHI 104 Ethics

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

PHI 104 considers the nature of moral problems and normative principles. The adequacy of moral theories and evaluations of ethical perspectives are discussed, along with the concepts of good and evil, duty and virtue. The course applies ethics with special references to the dignity of and respect for the person.

PHI 110 Religions of the World

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

PHI 110 provides an understanding of various religions, their sacred literature, their distinctive characteristics and the relevance of their teachings. An examination of the origins, development, practices, teachings and writings, with an integration of historical events, is followed by a consideration of pertinent worldwide contemporary problems.

PHI 150 Critical Thinking

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

This course introduces the process of critical thinking and analytical reasoning through writing and problem solving. Students must demonstrate skills through writing, discussion and research methodology.

PHI 201 Philosophy and History of Science

3 lecture hours, 3 credits

Prerequisites: RDG 099, ENG 104 and a lab science

This course is a survey of the philosophy and history of science from Aristotle to Newton to current world views. Topics may include ancient and medieval philosophies, the structure of the universe, development of scientific laws, Newtonian physics, natural selection and the development of new physics of the early twentieth century.

PHI 204 Contemporary Moral Issues

3 lecture hours, 3 credits

Prerequisites: RDG 099 or ENG 104 and PHI 101

This course introduces several contemporary approaches to moral issues and decision-making. We will investigate what makes an action right and wrong for a person living within a social arrangement, and what principles of conduct should guide communal living. Questions we will discuss include: What matters and why? Does human nature imply the right conduct? What is the basis to evaluate action as being morally right or wrong? Does moral wrongness of an action provide decisive reason for not doing this action? What authorizes moral standards for social conduct? The course will address such social issues of the contemporary Western society as, capital punishment, same sex marriage, abortion, social liberty, drug control and other issues.

PHI 210 Ancient and Medieval Philosophy

3 lecture hours, 3 credits

Prerequisites: RDG 099 or ENG 104 and PHI 101

This course surveys the thought of several of the most important ancient and medieval philosophers. Ancient philosophy was initiated by Greeks living in Asia. Later, it was strengthened by Greek philosophers living in Athens, and elaborated in various ways by their Greek and Roman successors. The works of the ancient philosophers were then transmitted and integrated into the diverse teachings of Muslim, Jewish and Christian thinkers in medieval period. We shall read works, excerpts, or fragments by authors such as Parmenides, Heraclitus, Plato, Aristotle, Plotinus, St. Augustine, Avicenna, Averroes and St. Thomas Aquinas.

PHY – Physics

PHY 101 Principles of Physical Science I

3 lecture hours, 3 lab hours, 4 credits

Prerequisite: RDG 099 or ENG 104

Course Fees: C, H

Physical Science develops awareness, understanding and appreciation of the physical environment. The dynamic nature of physical science is presented conceptually rather than mathematically. Concepts pertain to matter and energy. Laboratory experiences, designed to augment the conceptual approach, are included.

PHY 103 General Physics I

3 lecture hours, 3 lab hours, 4 credits

Pre or Co-requisites: MAT 110 and RDG 099 or ENG 104

Course Fees: C, H

Students will study principles of classical mechanics which include: kinematics, dynamics, statics, energy, momentum, rotational motion and mechanical properties of materials. The laboratories are integrated into each subject area in order to reinforce the concepts presented to the student.

PHY 104 General Physics II

3 lecture hours, 3 lab hours, 4 credits

Prerequisite: PHY 103

Course Fees: C, H

PHY 104 is the second semester of a two-semester, algebra-based physics course. The course provides in-depth coverage of various physical topics including fluid dynamics, heat, thermodynamics, light, electricity and magnetism.

PHY 105 Modern Astronomy

3 lecture hours, 3 lab hours, 4 credits

Prerequisite: RDG 099 or ENG 104

Course Fees: C, H

This course for the non-science major spans most of the scientific spectrum: physics, astronomy, earth science and biology. No prior physics or physical science background is required. Emphasis is on the properties of the universe and the human relationship to them. Laboratory experiences include field sessions with a telescope and planetarium.

PHY 107 Technical Physics

3 lecture hours, 3 lab hours, 4 credits

Pre or Co-requisites: MAT 110 and RDG 099 or ENG 104

Course Fees: C, H

Emphasis is on establishing and maintaining a relevancy between the study of physics and its practical applications in the vocational field and problem solving. The development of competency in applied physics is stressed. Practical applications of classical mechanics, properties of matter, heat, light, sound, electricity and magnetism are studied.

PHY 110 Applied Physics**3 lecture hours, 3 lab hours, 4 credits****Prerequisites:** RDG 099 or ENG 104 and MAT 109 and Admission to Automotive Technology program**Course Fees:** C, H

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

PLG – Paralegal

PLG 101 Introduction to Legal Studies**3 lecture hours, 3 credits****Prerequisite:** RDG 099 or ENG 104

This course is an introduction to the legal assistant profession; the system of jurisprudence, its history, philosophy and current trends. The role, ethics and responsibilities of the legal assistant, court structures and court procedures will also be examined. Emphasis is on ethical considerations, the code of ethics, the professional responsibility of NALA and the affirmation of professional responsibility of NFPA and other standards of conduct. The New Jersey court system and the American legal system are explored.

PLG 102 Litigation and Civil Procedure**3 lecture hours, 3 credits****Prerequisite or Co-requisite:** PLG 101

This course is a comprehensive survey of civil litigation and procedure. Law and litigation techniques from the filing of the lawsuit through the appellate process will be examined. Students draft complaints, pleadings, interrogatories and a digest of a deposition. Federal and state court rules are studied.

PLG 103 Legal Research and Writing**3 lecture hours, 3 credits****Prerequisites:** ENG 101 or ENG 101E and PLG 101

This course develops basic skills in analyzing legal problems, researching the problems and searching for legal authority. Students analyze legal problems using locators, brief cases, use Shepard's Citators and use computer-assisted legal research and reporter systems.

PLG 104 Torts**3 lecture hours, 3 credits****Prerequisite or Co-requisite:** PLG 101

This course is a study of the three basic forms of tort liability (intentional torts, negligence, strict liability). Consortium, alienation of affection, loss of consortium and business torts including product liability and criminal conversion are covered.

PLG 110 Contemporary Issues in Paralegal Studies**3 lecture hours, 3 credits****Prerequisite:** PLG 101

Contemporary Issues in Paralegal Studies is designed to give

in-depth knowledge and practical understanding of the paralegal's role in the specified area of law. The course is designed to give students an opportunity to study areas of law that are currently expanding and/or developing. The student will be expected to demonstrate substantive knowledge of the subject matter as well as professional competency in completing assignments typical to actual practice. Since the "contemporary issue" may change, students should consult the course-offering schedule each semester. Students may repeat the contemporary issues course as long as different issues are offered and as long as they do not exceed the maximum number of hours permitted. A maximum of six credit hours in contemporary issues may be applied toward degree program graduation or certificate completion requirements. Because contemporary issues courses may present transfer difficulties, students should check with their transfer institution's transfer coordinator before enrolling.

PLG 125 Business Organizations for Paralegals

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

Co-requisite: PLG 101

This course introduces the paralegal student to the principles of agency law and the basic forms of business organizations, including sole proprietorships, partnerships, limited liability companies and corporations. Students will prepare the documents necessary to the organization and operation of each form of business.

PLG 201 Criminal Law and Procedure for Paralegals

3 lecture hours, 3 credits

Prerequisite or Co-requisite: PLG 101

This Criminal Law and Procedure course is designed to provide student paralegals with an overview of the criminal justice process. This course covers the substantive aspects of criminal law and includes the general principles of criminal liability, specific analysis of particular crimes, parties to crimes and substantive defenses to crimes. Constitutional safeguards and procedures from arrest through trial, sentencing, punishment and appeal are also studied.

PLG 203 Bankruptcy

3 lecture hours, 3 credits

Prerequisite: PLG 101

This course introduces the student to bankruptcy law with emphasis on the paralegal's role. Topics include an introduction to the bankruptcy law, bankruptcy court procedures and the preparation of bankruptcy forms and documents, debtor's and creditor's rights and litigation proceedings in bankruptcy court. Students will learn to recognize ethical considerations for paralegals working in this area and learn current computer applications utilized in a bankruptcy practice. Emphasis will be on consumer bankruptcy including Chapter 7 and 13 of the Bankruptcy Code and the role of the paralegal as part of a team in a bankruptcy practice.

PLG 204 Technology in the Law Office

3 lecture hours, 3 credits

Prerequisite or Co-requisite: PLG 101

Prerequisites: CIS 102 or CIS 120

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

PLG 205 Wills, Trusts and Estate Planning

3 lecture hours, 3 credits

Prerequisite or Co-requisite: PLG 101

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

PLG 207 Family/Domestic Law

3 lecture hours, 3 credits

Prerequisite or Co-requisite: PLG 101

This is a study of divorce and dissolution procedures, family court systems, child support enforcement procedures, custody disputes, adoption procedures and aspects of juvenile law.

PLG 209 Legal Assistant Practicum

1 lecture hour, 210 internship hours, 3 credits

Prerequisites: 45 credits, including 15 PLG credits or equivalent, PLG 212

This is a study of the law office, the establishment and maintenance of filing systems, tickler system of scheduling, personnel management, accounting, time management and telephone and client interview techniques.

PLG 210 Property Transactions

3 lecture hours, 3 credits

Prerequisite or Co-requisite: PLG 101

This is a study of the types of property transactions and related matters. Topics include contracts, mortgages, leases, deeds and a review of title searches and recording statutes. Students will learn to prepare a real estate closing.

PLG 212 Paralegal Skills and Office Practices

3 lecture hours, 3 credits

Prerequisite or Co-requisite: PLG 101

This course focuses on the practical application of substantive law including, but not limited to, civil litigation, family law, real property, probate practice, wills, trusts, the administration of decedents' estates and legal research. Students will also be instructed in New Jersey Court Rules and Procedures and in locating and preparing legal forms. Paralegal Office Management skills and practices will also be covered.

POL – Political Science

POL 101 American Federal Government

3 lecture hours, 3 credits

This introductory political science course stresses fundamental principles of American Federal government. The structure of government is studied along with power distributions and its concomitant conflicts. Civil liberties, political parties, elections and citizenship are carefully considered.

POL 103 Introduction to Political Science

3 lecture hours, 3 credits

This is an introductory course in political science with emphasis on the tools of the discipline, political systems, political policy making, political philosophy and political change.

POL 120 Public Administration

3 lecture hours, 3 credits

Prerequisites: EN 060

An examination of the relationships between government and business, and contemporary theories of leadership practices and principles.

POL 201 Introduction to Comparative Politics

3 lecture hours, 3 credits

Prerequisites: ENG 104

Introduction to Comparative Politics is the study of different political systems, institutions, processes, movements, and actors. The course examines the governments and politics of countries throughout the world from a comparative perspective.

POL 206 Introduction to International Politics
3 lecture hours, 3 credits
Prerequisite: ENG 104

Introduction to International Politics is the study of interactions between states/countries in the world system. The course examines the ways in which states and non-state actors interact with each other and make decisions.

PRAC – Practical Nursing

PRAC 105 Practical Nursing Reflections
1 lecture hour, 1 credit
Prerequisite: Completion of at least one semester of nursing education or permission of the Dean of Nursing and Health Professions required.

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.

PRAC 110 Practical Nursing I
3 lecture hours, 45 clinical, 4 credits
Prerequisites or Corequisites: BIOL 105, ENGL 101;
Corequisite: PRAC 111
Program Fee: \$1,750

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.

PRAC 111 Practical Nursing Lab
1 lab hour, 1 credit, 3 contacts, 37.5 hours
Prerequisites or Corequisites: BIOL 105, ENGL 101;
Corequisite: PRAC 110
Program Fee: G

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.

PRAC 120 Practical Nursing II
2 lecture hours, 45 clinical, 3 credits
Prerequisites: PRAC 110, PRAC 111;
Corequisites: BIOL 105, ENGL 101

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.

PRAC 130 Practical Nursing III
2 lecture hours, 45 clinical, 3 credits
Prerequisites or Corequisites: BIOL 106, PSYC 101;
Prerequisite: PRAC 120
Program Fee: \$1,750

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.

PRAC 140 Practical Nursing IV
4 lecture hours, 45 clinical, 5 credits
Prerequisites or Corequisites: BIOL 106, PSYC 101;
Prerequisite: PRAC 130
Exit exam fee & Course fee K curriculum review fee

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.

PSY – Psychology

PSY 100 Interpersonal Psychology
3 lecture hours, 3 credits
Placement is based on basic skills test results
Open to Developmental program students only

Students participate in a study of human interaction. Stress is on interpersonal relationships and how people adapt to various social and personal situations. Training techniques such as role playing, observations and discussion groups are included. This course does not count as a social science elective.

PSY 101 General Psychology
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This is an introduction to the study of behavior. The scientific method is studied with its application as seen in the principal research findings in the major areas of modern psychology, such as human development and individual differences, sensation and perception, learning and intelligence, personality formation and abnormal psychology.

PSY 200 Understanding Addictive Behavior
3 lecture hours, 3 credits
Prerequisite: PSY 101

This course inspects the causes, symptoms, and effects of addictive behavior. Students will examine the history, social and environmental contexts, and treatment of addictive behavior. Topics include classification and action of psychoactive drugs, the neurochemistry of chemical dependence and process/behavioral addictions, and their effects on the mental, physical, and spiritual domains of individuals and families

PSY 206 Psychopharmacology
3 lecture hours, 3 credits
Prerequisite: PSY 206

This course is an overview of pharmacology in relationship to addictions and their effect on the human body. Alcohol and drugs of abuse and addiction and how they affect behavior will be examined. Specific topics to be discussed include the classification of medications; legal and ethical principles regarding clinical drug trials and the FDA approval process; legalities of drug trafficking; acute and chronic effects; reversible and irreversible consequences functional disorders of the nervous system; neurobehavioral dysfunctions and other multi-sided aspects of addiction. A special emphasis will be placed on culture, ethnic and age-related considerations. This course will provide an understanding of the role of pharmacology in the counseling field.

PSY 203 Educational Psychology
3 lecture hours, 3 credits
Prerequisite: PSY 101

This course focuses on the learning process in children and adolescents, especially in an educational setting, with emphasis on motivation, problem solving, assessment and evaluation; environmental and hereditary influences in learning and theories of learning. Field observations and reports are required.

PSY 211 Psychology of Human Development
3 lecture hours, 3 credits
Prerequisite: PSY 101

This study of the psychology of the human lifespan includes prenatal, infancy, childhood, adolescence, adulthood and aging development. Social-emotional theories of development, cognitive and language development and issues related to the stages of development are discussed.

PSY 212 Psychology of the Adolescent

3 lecture hours, 3 credits

Prerequisite: PSY 101

This course considers patterns of behavior characteristics from puberty to adulthood. Emphasis is on developmental changes in physical, intellectual, motivational and emotional growth in a cultural context.

PSY 213 Child Psychology

3 lecture hours, 3 credits

Prerequisite: PSY 101

Development and analysis of prenatal factors and infant and child behavior are considered. Topics include motor development, emotional development, motivation, language, thinking, work and play. Problems and methods of child study, application of research, effects of heredity and environment on the individual, individual differences and theories of personality development are studied. Observations are required.

PSY 215 Psychology of Aging

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

This is a study of the changing personality and behavior of the aging person and the effect of the changing nervous system on psycho/social relationships.

PSY 230 Abnormal Psychology

3 lecture hours, 3 credits

Prerequisite: PSY 101

This is a study of behavior and personality disorders. Social, physiological and individual factors of behavior disorganization, evaluation and treatment are reviewed.

PSY 231 Abuse and Violence in the Family

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

This course focuses on causes of abuse and violence in the family and strategies for reducing and eliminating abuse. Spouse/partner abuse, child abuse and elder abuse are addressed from legal, medical and social perspectives. Seminar format is utilized.

PSY 240 Social Psychology

3 lecture hours, 3 credits

Prerequisite: SOC 101 or PSY 101

This is an introduction to the concepts of group behavior, their empirical foundations and their implications for the individual in interpersonal relationships.

PSY 300 Introduction to Sport & Exercise Psychology

3 lecture hours, 3 credits

Prerequisite: PSY 101

This course examines theories and models of psychology and how they relate to human performance. Topics include personality, exercise environments, motivation, and arousal. Stress and anxiety, group processes, leadership and psychological well-being and their impact on sport and exercise is also discussed.

PSY 308 Social Psychology of Sport

3 lecture hours, 3 credits

Prerequisite: PSY 300

This course examines issues related to athletic performance based on theoretical perspectives and current research addressing the impact of social concepts on sport and exercise. Topics include relationships in sport, team cohesion, group dynamics, effective communication, coach's impact on leadership, motivational climates and athletic transition.

PTA – Physical Therapist Assistant

PTA 101 Introduction to Physical Therapist Assisting

1 lecture, 1 credit

Prerequisite: Grade of "C" or better in ENG 101 or ENG 101E

Co-requisite: HPE 106, PTA 102

Program Fee: \$1,500

This course will provide an introduction to the physical therapy profession, including a history of the American Physical Therapy Association; the role of the PTA as a member of the health care team; the PT/PTA relationship; physical therapy practice settings and specialties; as well as an introduction to physical therapy regulations, ethics, patient communication, patient health care records and documentation.

PTA 102 Kinesiology and Measurement of the Musculoskeletal System

3 lecture hours, 7 lab hours, 6 credits

Prerequisite: Grade "C+" or better in each of the following: BIO 105 and MAT 115

Pre or Co-requisite: BIO 106, PTA 101

Course Fees: I

Building upon Anatomy and Physiology I, this course will provide an in-depth study of the biomechanical principles and anatomical structures responsible for human movement; as well as the fundamentals and physiological effects of therapeutic exercise. Students will be expected to demonstrate in lab competency with palpation of anatomical landmarks; assessing anthropometric measurements, muscle strength, joint range of motion, posture and gait; and performing common therapeutic exercises for strengthening, stretching, balance and coordination. Documentation regarding data collection and treatment interventions will also be included.

PTA 105 Pathophysiology for the PTA

2 lecture hours, 2 credits

Prerequisite: Grade of "C+" or better in BIO 106

Co-requisites: PTA 107, PTA 210

The student is introduced to the medical and surgical conditions most frequently encountered in PT departments, with emphasis on the role of the PTA in the treatment of each. The basic inflammatory and healing processes and the principles of treatments to promote healing are covered. Students will become familiarized with the essential nature of diseases and abnormalities of structure and function that are characteristic of diseases. Students will receive an introduction to pharmacology and to the systematic review of professional literature to research PT-related diagnoses.

PTA 107 Essential Skills for the PTA I: Patient Care

2 lecture hours, 6 lab hours, 4 credits

Prerequisite: PTA 102

Co-requisites: PTA 105

Course Fees: I

This course will introduce students to fundamental patient care skills and assessment techniques, including patient interviewing, vital signs, body mechanics, positioning, bed mobility, transfer techniques, gait training, aseptic techniques, basic wound care and wheelchair management. During laboratory time, students will practice skills utilizing simulated patient care scenarios prior to being assessed

through skill competency testing and practical examinations.

PTA 207 *Essential Skills for the PTA II: Biophysical Agents*

2 lecture hours, 6 lab hours, 4 credits

Prerequisite: PTA 102

Co-requisite: PTA 208

Course Fees: I

This course is designed to prepare students for the safe and effective application of therapeutic modalities in physical therapy practice. Mechanisms of action, indications, contraindications, precautions and parameters will be covered for the use of superficial and deep heat; cryotherapy; mechanical compression; electrotherapy; spinal traction; therapeutic massage; hydrotherapy and light therapy. Lecture and laboratory activities will develop problem solving and critical thinking skills regarding the use of therapeutic modalities and skills will be assessed to competence level.

PTA 208 *Management of Neurological Disorders*

Across the Lifespan

3 lecture hours, 3 lab hours, 4 credits

Prerequisite: PTA 105

Co-requisite: PTA 207

Course Fees: I

This course will focus on the characteristics and treatment of pediatric and adult neurological disorders, as well as their impact on human motor development. Students will be taught the concepts of motor control and motor learning development, as well as the theory and practical application of treatment interventions utilized for the treatment of patients with neurological disorders. The focus will be on patient function including assessment instruments used to identify and document architectural barriers and the level of assistance needed for performance of activities of daily living. Skills learned in lab will be tested to a level of competence throughout the semester.

PTA 209 *Clinical Experience I*

90 clinical hours, 2 credits

Prerequisites: PTA 102, PTA 107, PTA 207 (Practical #1) and PTA 210

Program Fee: \$1,500

This is an integrated clinical affiliation used to introduce the Student Physical Therapist Assistant (SPTA) to the operational procedures of a clinical setting. The student will be immersed in patient/client interactions as well as the PT-PTA relationship and will be expected to perform at the advanced beginner level for skills in data collection techniques and mobility training. The SPTA must maintain proficiency in all areas of patient safety.

PTA 210 *Orthopedics for the PTA*

1 lecture hour, 1 lab hour, 1 credit

Prerequisite: PTA 102

Co-requisites: PTA 105, PTA 107

Course Fee: G

This course builds upon the concepts introduced in PTA 102 Kinesiology and Measurement of the Musculoskeletal System, with a focus on common orthopedic injuries, disorders and surgeries. PTA students will receive instruction on the phases of musculoskeletal tissue healing, treatment interventions, patient education and therapeutic exercise progression within the plan of care developed by the supervising physical therapist.

PTA 216 *Cardiovascular and Pulmonary PT*

1 lecture hour, 2 lab hours, 2 credits

Prerequisites: PTA 102, PTA 105

Course Fees: G

This course will focus on assessment techniques and treatment

interventions for cardiovascular and pulmonary pathologies, as well as assessment and treatment for patients with amputations. Knowledge and lab skills will be assessed through skill-competency testing, written examinations and practical examinations.

PTA 229 *Clinical Experience II*

270 clinical hours, 6 credits

Prerequisites: PTA 207, PTA 208, PTA 209, PTA 210 and PTA 216

Co-requisite: PTA 240

Knowledge and skills learned in all PTA program coursework will be integrated and applied to direct patient care during this 6-week, full-time clinical education experience. In addition, students will complete five clinical conference hours online each week. By the conclusion of the experience, students will be expected to safely perform quality physical therapy care for routine patients with minimal supervision and guidance from the supervising physical therapist

PTA 239 *Clinical Experience III*

270 clinical hours, 6 credits

Prerequisite: PTA 229

Co-requisite: PTA 240

Course Fee: S, **Program Fee:** \$1,500

Knowledge and skills learned in all PTA program coursework will be integrated and applied to direct patient care during this six-week, full-time clinical education experience. In addition, students will complete five clinical conference hours online each week. By the conclusion of the experience, students will be expected to safely perform quality physical therapy care at the level of an entry-level physical therapist assistant

PTA 240 *Seminar in PTA Professionalism*

1 lecture hour, 1 credit

Prerequisite: PTA 209

Co-requisites: PTA 229 and PTA 239

Course Fee: T

This capstone course is designed to further develop the professional behaviors and expectations of an entry-level physical therapist assistant including exploration of topics related to ethics and jurisprudence. Assignments will include completing the steps necessary to apply for the National Physical Therapy Exam and for state licensure. Students will be expected to participate in the implementation of a community-based or volunteer service learning project.

PTE – Process Technology

PTE 101 *Process Technology I:*

Introduction to Process Technology

3 lecture hours, 3 credits

Prerequisite: RDG 099 or ENG 104

This course is designed to serve as an introduction to the field of Process Technology for the Chemical, Energy, Food, Oil and Gas, Pharmaceuticals, Pulp and Paper, Power, Refining and Waste Treatment industries. Students will develop an understanding of the roles, responsibilities and expectations of a Process Operator, process terminology, plant organization and operations, equipment and systems.

PTE 102 *Process Technology II: Instrumentation*

3 lecture hours, 3 credits

Prerequisites: Minimum grade of "C" in PTE 101 and CHM 107

This course is designed to equip students with the instrumentation and documentation skills necessary to work in the field of Process Technology. Students will understand common terminology,

relationships between process variables and process instruments controlling pressure, temperature, flow and level. Control loops and the interactions between each component of a control loop will be examined. Students will also have the opportunity for field experience/activity by visiting manufacturing sites and will benefit from experts in the field.

PTE 103 Principles of Occupational Safety and Health
2 lecture hours, 2 lab hours, 3 credits

Prerequisites: Minimum grade of "C" in PTE 101
and CHM 107

Course Fee: G

This course will introduce students to industrial hygiene by evaluating the sampling and analytical techniques required to evaluate chemical, physical and biological health and safety hazards in the industrial environment. Students will understand the fundamentals of Occupational Safety and Health as it relates to industrial work environments.

PTE 201 Process Technology Equipment
3 lecture hours, 3 lab hours, 4 credits

Prerequisite: Minimum grade of "C" in PTE 101
Pre or Co-requisite: CHM 107

Course Fee: H

This course will introduce students to the equipment commonly utilized in the process industries. Students will learn about the operation of processing equipment such as piping, tubing, valves, pumps, compressors, motors, reactors, filters, dryers and gauges.

PTE 202 Process Technology Systems and Troubleshooting
5 lecture hours, 5 credits

Prerequisite: Minimum grade of "C" in PTE 102

This course will introduce students to the relationships between process equipment and systems. Students will identify and explain how process systems are controlled under normal conditions, recognize abnormal process conditions and how to troubleshoot the system.

PTE 203 Industrial Process Operations
3 lecture hours, 3 credits

Prerequisite: Minimum grade of "C" in PTE 102

This course will provide an overview of the common types of industrial field processes. Students will explore types of commercial processes and understand the operation of an entire operating process unit.

SCI – Science

SCI 105 Introduction to Experimentation
1 lecture hour, 1 credit

An introductory course exploring the Scientific Method and the concepts of experimental design. This is a one-credit course designed for students pursuing careers in science or students wanting to have a better understanding of the scientific process.

SCI 110 Women in STEM Seminar
1 lecture hour, 1 credit
Prerequisite: RDG 099 or ENG 104 and permission
from Dean of STEM

The focus of this course will be on the history of women in science and current obstacles women face in scientific fields. We will discuss recommendations for change with the goal of encouraging the participation in and representation of women in science. Gender-inclusive, alternative teaching methods that emphasize cooperative learning, group discussion and critical

analysis will be incorporated.

SCI 115 STEM Seminar
1 lecture hour, 1 credit
Prerequisite: None

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 majors.

SCI 201 Honors Research
1 lecture hour, 10 lab hours, 3 credits
Prerequisite: BIO 102 or BIO 106, CHM 111 and minimum GPA 3.5
Course Fees: Y

This course is designed to provide STEM majors with practical experience while working for 10 hours/week at a field location. The course is designed for students who aspire to gain career-related experience while completing their degree. This course will have an academic experience and a supervised work experience.

SOC – Sociology

SOC 101 Principles of Sociology
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This is a study of the basic concepts of sociology applied to modern society and the use of the scientific methods in sociology. Analysis of social relationships, groups, institutions, population, systems of control and social change will be examined.

SOC 102 Sociology of the Family
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course studies the American family from a contemporary and sociological viewpoint. The essence of the family in an historical cross-cultural perspective and new experiments in family lifestyles are explored. Emphasis is on the family as an important social institution.

SOC 104 Social Problems
3 lecture hours, 3 credits
Prerequisites: RDG 099 or ENG 104

This course examines the social problems in society using sociological theories and concepts. Contemporary social problems including, but not limited to, racial and ethnic relations, family problems, crime, mental illness, poverty and alcoholism will be analyzed.

SOC 110 Cultural Anthropology
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course is an introduction to the complexity of human life and anthropologist's view of the essential aspects of culture. The course stresses the variety of ways that human groups have organized their societies as alternatives for solving common human problems.

SOC 130 Society, Ethics and Technology
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course investigates the relationship between technological advances and the influence they have had on society throughout history. Social and cultural changes are reviewed in the context of technology and ethical issues that contemporary society faces because of new technological developments.

SOC 160 Introduction to Social Work
3 lecture hours, 3 credits
Prerequisites: RDG 099 or ENG 104 and SOC 101

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

SOC 216 Death & Dying
3 lecture hours, 3 credits
Prerequisite: SOC 101

A sociological and psychological exploration of issues surrounding death and bereavement such as grief, funerals, euthanasia, suicide and the dying patient.

SOC 220 Sociology of Juvenile Delinquency
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This is an orientation to the divergent theories, philosophies, values, attitudes and historical events that have contributed to the operation of modern juvenile justice systems; causes and attempts to prevent delinquency; identification of delinquents; detention and treatment methods; adjudication and disposition including related social agencies.

SOC 222 Alcohol & Drug Field Work
1 lecture hour, 90 clinical hours, 3 credits
Prerequisites: SOC 101, PSY 200, PSY 206

Fieldwork I is designed to give the student a veridical understanding of alcohol and drug practice. Students volunteer at various local drug and alcohol agencies*. The focus is on addiction as a disease as well as environmental contributions to the addiction. The effects on the individual and family will be covered in addition to other support systems for those affected by addictions. A LCADC (License Certified Alcohol and Drug Counselor) at the agency directs and monitors the students' activities 90 hours during the semester. *90 hours of field experience required.

SOC 227 Introduction to Gerontology
3 lecture hours, 3 credits
Prerequisites: ENG 104 or RDG 099, SOC 101

This course delineates the realities of aging through the comprehensive exploration of the social, psychological and physiological issues associated with the aging process. For each topic discussed, the developmental stages of early, middle, late and their various characteristics are explored, as they impact upon the ethos of aging in the US.

SOC 235 Social Psychological Counseling
3 lecture hours, 3 credits
Prerequisite: SOC 101

This course is designed to introduce students to techniques as well as methods of recording commonly used in agency practice. In addition, an overview of normal and abnormal growth and development will be stressed with practical application from clients in field experiences case materials drawn from the Council of Social Work Education materials, including case work, group work, and community organization methods

SOC 238 Social Minorities & Intergroup Relations
3 lecture hours, 3 credits
Prerequisite: SOC 101

This course provides a study of prejudice, discrimination, and the relations between and within different cultural and racial groups in the US.

SOC 240 Human Behavior in the Social Environment I
3 lecture hours, 3 credits
Prerequisite: SOC 101

An introduction to biological and social science concepts of human development and social functioning necessary for the practice of social work.

SOC 241 Human Behavior in the Social Environment II
3 lecture hours, 3 credits
Prerequisite: SOC 240

An examination of the manner in which macro systems in the social environment affect human behavior, with a focus on populations at risk and community empowerment.

SOC 250 Social Service Field Work I
1 lecture hour, 90 Co-op hours, 3 credits
Prerequisites: SOC 101, SOC 104

Field Work I is designed to give the student a veridical understanding of social work practice. Students are assigned to various local social services agencies*.

*90 hours of field experience is required.

SOC 251 Social Service Field Work II
1 lecture hour, 90 Co-op hours, 3 credits
Prerequisites: SOC 101, SOC 104, SOC 235, SOC 240, SOC 250

Field Work II is continuation of Field Work I and is designed to build upon the skills learned from Field Work I. Students will complete their Portfolio that began in Field Work I as a capstone project. Students are assigned to various local social service agencies. A pre-assigned person at the local agency directs and monitors the student's activities eight (8) hours each week during the semester to complete 90 hours for the semester.

SPA – Spanish

SPA 101 Elementary Spanish I
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

Introductory grammar and pronunciation form the basis of this course, designed to develop communicative skills in Spanish. Oral and written exercises and reading of easy prose and dictations are the points of departure.

SPA 102 Elementary Spanish II
3 lecture hours, 3 credits
Prerequisite: SPA 101 or one year of high school Spanish

Advanced grammar and vocabulary are explored in the development of comprehension, writing and speaking of Spanish.

SPA 120 Spanish for Law Enforcement
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course introduces the law enforcement officer to the Hispanic culture in America and increases cross-cultural awareness. It provides a working knowledge of Spanish specific to job responsibilities.

SPA 130 Spanish for the Medical Profession
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

Spanish for the Medical Profession prepares health care workers to communicate effectively when providing medical care and attention to Spanish-speaking patients in medical settings. In addition to workplace Spanish language, the course provides transcultural training. Emphasis is on enhancing quality patient care.

SPA 201 Intermediate Spanish I
3 lecture hours, 3 credits
Prerequisite: SPA 102 or two years of high school Spanish

A general review of grammar and speech patterns accompanies the introduction of selected readings from Spanish literature. The class is conducted primarily in Spanish.

SPA 202 Intermediate Spanish II
3 lecture hours, 3 credits
Prerequisite: SPA 201 or 3 years of high school Spanish

Increased dependence on fluency is emphasized through classroom discussions in Spanish of culture and history and by reading a major work from Spanish literature.

SPE – Speech

SPE 101 Oral Communication
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

SPE 101 stresses principles and practices of oral communication, especially speaking to inform. The course includes consideration of voice and articulation, conversation and discussion. Emphasis is on preparation and presentation of speeches.

SPE 103 Voice and Diction
3 lecture hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course enhances, corrects and strengthens the voice and speech of the individual. Although intended for any student, it helps those in communications, broadcasting and acting. It can also be of help to those with accents.

THR – Theatre Arts

THR 105 Fundamentals of Ballet
2 lecture hours, 2 studio hours, 3 credits

THR 105 introduces students to vocabulary and technique of ballet movements with emphasis on body alignment and effective methods for gaining strength and flexibility necessary for proper ballet deportment. The course includes barre, centre floor and basic elements of classical ballet vocabulary.

THR 107 Fundamentals of Jazz Dance
2 lecture hours, 2 studio hours, 3 credits

THR 107 introduces students to a comprehensive style and technique rooted in traditional jazz dance and to a variety of movement concepts of contemporary jazz dance. The concepts and techniques covered in this class reflect the evolution of jazz dance in America, an evolution due in great part to various music, cultural and social dance influences throughout its history.

THR 109 Living Theatre
3 lecture hours, 3 credits

This course examines theatre from the perspective of those who create it. It addresses the many issues surrounding the ancient art of live theatre in an increasingly digital age, and analyzes the ways in which individual theatre artists create a production, and engages with the reasons why they do so. Students are encouraged to explore ways in which the craft of theatre can be relevant in other aspects of their lives.

THR 111 Acting Workshop I
2 lecture hours, 2 studio hours, 3 credits
Prerequisite: RDG 099 or ENG 104

This course features instruction and practice in the development of characterization, styles of acting and refinement of vocal and physical control. In-class rehearsals and performances of selected works are conducted. Students may enroll for subsequent Acting Workshop classes.

THR 112 Acting Workshop II
2 lecture hours, 2 studio hours, 3 credits
Prerequisite: THR 111 with a minimum grade of "D-"

Building upon the skills addressed in Acting Workshop I, this course features an overview and advanced instruction and practice in the development of improvisation, monologues and scene studies and refinement of vocal and physical control. In-class recitation and performances of selected works are conducted.

THR 205 Introduction to Theatre and Dance
2 lecture hours, 2 studio hours, 3 credits

This course introduces current and historical examples of theatre and dance with emphasis on the distinguishing characteristics of each form of performance and on the principles of temporal composition common to all linear or abstract performing art. The course stresses the fundamentals of interpretation and analysis essential to advanced work in performance, design and criticism.

THR 208 Experiencing Acting
2 lecture hours, 2 studio hours, 3 credits

This course is for students interested in exploring their acting talents. Using improvisation, theatre games and scene projects, students examine how actors strengthen and use imagination, awareness and creativity, and learn to analyze, prepare and perform a role.

THR 210 Advanced Ballet
2 lecture hours, 2 studio hours, 3 credits

This course is designed for students with sufficient technical training in ballet fundamentals to continue their development at the intermediate-advanced level. Advanced Ballet includes barre and centre floor, and it continues to build on the elements of the classical ballet.

THR 211 Acting Workshop III
2 lecture hours, 2 studio hours, 3 credits
Prerequisite: THR 112 with a minimum grade of "D-"

This course details preparation and practice in the progression of performance and character analysis, a variety of acting approaches, and hones vocal and physical control. In-class presentations of selected works are conducted.

THR 212 Acting Workshop IV
2 lecture hours, 2 studio hours, 3 credits
Prerequisite: THR 211 with a minimum grade of "D-"

This is a practical course that allows students to build self-confidence in the areas of character development, acting techniques and freedom in voice and movement. Presentations of various self-selected works are conducted.

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

This course is a comprehensive technique class that will expand, strengthen, and enhance the students' existing knowledge of jazz dance obtained in Fundamentals of Jazz Dance. This course is designed to increase the students' ability to remember and to perform jazz dance confidently in shows, auditions, and teaching. This course offers additional challenges that support students' individual efforts to achieve their own personal best as they explore the artistry that fuels the many facets of jazz dance

Veterinary Technology

VETT 101 Introduction to Veterinary Technology
3 lecture hours, 3 credits
Prerequisite: Acceptance into the Veterinary Technology Program

This course is designed to acquaint the student with the profession of veterinary technology and the role of the veterinary healthcare team in animal and public health. Veterinary office procedures, including veterinary medical record-keeping, veterinary client-patient relationship (VCPR), and breed/species identification will be discussed. This course will also include medical and veterinary terminology, fundamental legal concepts, and state veterinary practice acts.

VETT 105 Anatomy and Physiology of Domestic Animals I
3 lecture hours, 3 lab hours, 4 credits
Pre- or Co-Requisite: VETT 101

This course is designed to instruct veterinary technician students in the anatomy and physiology of common structures of small, food/fiber, laboratory, and exotic animals compare and contrast the structural and functional differences among various species. Students apply appropriate medical terminology to describe anatomical structures and their corresponding physiology relative to the animal's position. This course will focus on the integumentary, skeletal, muscular, nervous, and endocrine systems. The laboratory will correlate with lecture material and will help to visualize these concepts. Organ systems include the integumentary, skeletal, muscular, nervous, and endocrine systems.

VETT 106 Anatomy and Physiology of Domestic Animals II
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: VETT 105

This course is designed to instruct veterinary technician students in the anatomy and physiology of common structures of small, food/fiber, laboratory, and exotic animals compare and contrast the structural and functional differences among various species. Students apply appropriate medical terminology to describe anatomical structures and their corresponding physiology relative to the animal's position. This course will focus on the cardiovascular, respiratory, digestive, urinary, reproductive, and immune systems. The laboratory will correlate with lecture material and will help to visualize these concepts. Organ systems include the cardiovascular, respiratory, digestive, urinary, reproductive, and immune systems.

VETT 110 Veterinary Pharmacology
3 lecture hours, 3 credits
Prerequisite: MAT 101, VETT 101

This course studies the principles and practices related to veterinary pharmacology. It will explore the most commonly used classes of drugs, the applications to each body system, medication calculations (including fluid therapy and constant rate infusions), and the record-keeping responsibilities involved in handling and dispensing medications, including controlled substances.

VETT 115 Animal Behavior and Restraint
3 lecture hours, 3 credits

Prerequisite: Acceptance into the Veterinary Technology Program
Pre or Corequisite: VETT 101

This course covers veterinary examination room techniques and teaches patient stabilization and restraint, emphasizing preserving the safety of the patient and veterinary health care team. Discussion topics will include canine and feline behavior, training, learning, behavior modification, perception, communication, and genetic influences on behavior.

VETT 201 Small Animal Medicine & Nursing Care
2 lecture hours, 2 clinical hours, 4 credits
Prerequisite: VETT 115

This course is designed to provide the student with essential knowledge of companion animals' common diseases. Students will learn about nutrition, preventative care, standard vaccinations and diseases, zoonotic disease, clinical signs, diagnostic tests, and appropriate interventions. Technical skill topics that will be applied in the clinical setting include routine patient care, inpatient monitoring, medication administration, vascular access, fluid, and oxygen therapy, urinary catheterization, recumbent patient care, and client education. The student will learn to use veterinary nursing care plans to develop critical thinking when caring for patients. .

VETT 205 Large Animal Medicine & Nursing Care
2 lecture hours, 2 clinical hours, 4 credits
Prerequisite: VETT 115

The student will be able to provide safe, humane, and effective monitoring and nursing interventions (such as venipuncture, fluid therapy, medication administration, blood pressure measurement, ECG, bandaging) for large animals. Additionally, students will be able to obtain patient history, provide client education, and perform physical examinations on large animals in the clinical setting. Learning large animal diseases and the role of the credentialed veterinary technician will provide them with the knowledge and skills that are needed in clinical practice.

VETT 210 Veterinary Laboratory Procedures I
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: VETT 105

This lecture is designed to introduce the veterinary technician student to the principles of clinical chemistry, hematology, urinalysis, and parasitology. Topics include common parasites and their life cycles, hematology, and the hematopoietic system, emphasizing normal blood smears and common changes seen during disease states of domestic animals. The lab is for the reinforcement and application of laboratory procedures and principles taught in Veterinary Laboratory Procedures I.

VETT 211: Veterinary Laboratory Procedures II
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: VETT 210

This lecture serves as a continuation of Veterinary Laboratory Procedures I. It is designed to acquaint the student with the principles of bone marrow samples, cytology, biopsy, blood chemistries, endocrinology, serology, and microbiology. The lab provides experience in the clinical application of the techniques discussed in Animal Laboratory Procedures II in the areas of immunology, clinical chemistry, cytology, veterinary microbiology, coagulation testing, and abnormal and comparative hematology.

VETT 220 Laboratory and Exotic Medicine and Nursing Care
2 lecture hours, 2 clinical hours, 4 credits
Prerequisite: VETT 115

This course is designed to acquaint the student with laboratory and exotic pet husbandry fundamentals, nutrition, common diseases, zoonotic disease medicine, and treatment. In a clinical setting, students will be able to discuss the recommended diet and habitat for each species covered as well as restraint and treatment techniques, common diseases and zoonotic concerns for pet owners and the veterinary health care team.

VETT 225 Veterinary Diagnostic Imaging & Dentistry
3 lecture hours, 3 credits
Prerequisite: VETT 105

Fundamental diagnostic imaging concepts will be discussed, including patient positioning, film processing, digital imaging, radiographic technique, and radiation safety procedures. Other imaging technologies that will be addressed include endoscopy, ultrasound, fluoroscopy, MRI, CT scan, and nuclear scintigraphy. The second half of this course serves as an introduction to the fundamental techniques of veterinary dentistry used by veterinary technicians. Discussions will focus on learning and applying techniques in preventive care, periodontics, endodontics, orthodontics, and dental radiology appropriate for veterinary technicians. The student will acquire knowledge of dental diseases, diagnostic techniques, and therapeutic techniques and equipment.

VETT 230 Veterinary Surgical Nursing & Anesthesia
3 lecture hours, 3 credits
Prerequisite: VETT 110; VETT 105
Co-Requisite: VETT 105

This course is designed to acquaint the student with standard surgical procedures, principles of asepsis, maintenance of the surgical environment, operating room conduct, surgical instrument identification, care and processing, and patient surgical preparation. The student will learn to work collaboratively to develop a balanced anesthetic protocol and implement a multimodal analgesic plan to improve patient care. Topics include maintenance and troubleshooting of anesthetic equipment, maintenance of a patent airway, patient monitoring during all stages of anesthesia, responding appropriately to changes in patient status, ongoing assessment for appropriate analgesia, and client education to ensure the well-being of the patient and efficacy/safety of the medication or anesthetic procedure.

VETT 235 Veterinary Emergency Medicine
3 lecture hours, 3 credits
Prerequisite: VETT 110, VETT 201

This course is designed to acquaint the student with veterinary emergency and critical care medicine fundamentals and techniques appropriate for veterinary technicians. The student will learn to identify an emergency, assess, and monitor patient status, properly administer medications, fluids, oxygen, and blood products, identify equipment required for emergency and critical care patients, and assist in those specialized procedures. The importance of evidence-based cardiopulmonary resuscitation (CPR) techniques will be stressed.

VETT 240 Veterinary Professional Leadership Seminar & VTNE Prep
3 lecture hours, 3 credits
Prerequisite: VETT 106, 110, 210, 225, 230
Co-Requisite: VETT 225, 230

This course prepares the student to move into the profession of veterinary technology. Topics include professional development, communication (verbal, non-verbal, and active listening), leadership, career options, resume writing, effective job-seeking techniques, and assistance in Veterinary Technician National Exam (VTNE) preparation. The course also provides information on self-care, work-life balance, burnout, and compassion fatigue.

WIND – Wind Power

WIND-101 Offshore Safety and Survival
3 lecture hours, 3 lab hours, 4 credits

The Offshore Safety and Survival course covers safe working practices for the offshore industry, especially for working with offshore wind turbines. The course discusses the basic and advanced-level safety issues, examines case studies in rescue and first aid, and identifies skill sets needed for activities such as climbing, blade repair, handling of fire, identification of hazards, and manual handling. Laboratory work will include Offshore Safety and Survival practices and regulations.

WIND-105 Corrosion Management and Control
3 lecture hours, 3 credits

This course examines fundamental principles behind the corrosion of structures and discusses best practices in corrosion control and its management.

WIND-110 Wind Power Technology
3 lecture hours, 3 lab hours, 4 credits

Prerequisite(s): ETEC-240 Pneumatic and Hydraulic Automation

This course is designed to provide the operational and electrical skills required for an entry-level technical position in the global wind industry. Wind Power Technology will equip individuals with the knowledge and skills required for assembling, installing and/or repairing wind energy projects of different scales, from small commercial and municipal turbines to utility-scale wind farms located offshore. Themes include: Project Operations, Turbine Fundamentals, Cranes & Rigging, Fasteners & Torqueing, Shaft Alignment and Bonding, Grounding and Lightning Protection systems. Laboratory work will include technical processes.

WIND-115 Wind Power Operations and Maintenance
3 lecture hours, 3 lab hours, 4 credits

Prerequisite(s): ETEC-240 Pneumatic and Hydraulic Automation

This course is designed to provide the operational and mechanical skills required for an entry-level technical position in the global wind industry. It will also provide individuals with the knowledge and skills required for the operation and maintenance of wind energy projects. From small commercial and municipal turbines to utility-scale wind farms located offshore or land-based. Laboratory work will include maintenance operation, cooling/heating systems, and programmable logic controllers.

WIND-120 Power Transmission in Offshore Environments
3 lecture hours, 3 lab hours, 4 credits
Prerequisite: WIND-110 Wind Power Technology

This course identifies key components of infrastructure needed to transport offshore generated power to onshore locations. These components include offshore cables (HVDC and HVAC), offshore substations, electrical transformers, and power controlling and protection devices. The course also examines monitoring practices and maintenance needs associated with each of these components and identifies some of their common failures and related corrective/preventative maintenance strategies. The economics of offshore power generation and transportation are briefly discussed. Laboratory work will include working with HVDC and HVAC cables, electrical transformers, and power-controlling devices.

WIND-125 Data and Command Center Management
3 lecture hours, 3 lab hours, 4 credits
Prerequisite(s): WIND-110 Wind Power Technology

This course examines the importance of condition monitoring and its application to offshore wind turbines. Topics include the gathering and analysis of condition monitoring data, the technical and financial rationales behind maintenance decisions, and the significance of the Data and Command Center where all such work is carried out. Also included are the structure of a Data and Command Center, the jobs and roles associated with it, and its importance in offshore wind turbine management and maintenance. Data privacy and security-related issues are also discussed. Laboratory work will include data monitoring and data analysis.



300-level Courses

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

Future internships and internship opportunities are being developed to enhance work experience and career potential.

3+1 Eligible Programs

- Applied Professional Communications — *Arts and Sciences: Communication Option (A.A.)*
- Criminal Justice — *Criminal Justice (A.S.)*
- Data Analytics — *Business Administration (A.S.)* or *Computer Information Systems (A.S.)* or *Computer Science (A.S.)*
- Disaster Preparedness & Emergency Management — *Criminal Justice, Emergency Management, Option (A.S.)*
- Fitness Management — *Exercise Science (A.S.)*
- Business Administration: Global Business Leadership — *Business Administration (A.S.)*
- Inclusive Education — *Education (A.S.)*
- Law & Justice Studies — *Criminal Justice (A.S.)*
- Nursing — *Nursing Generic Program (A.S.)*
- Psychology — *Psychology (A.S.)*
- Radio, Television & Film — *Arts and Sciences: Radio, Television & Film Option (A.A.)*

For more information, please visit RCSJ.edu/3plus1.

Third Year (Advanced Studies) Course Descriptions:

Course work for 3+1 students only.

Applied Professional Communications

COM 300 *Publication, Layout and Design*

3 lecture hours, 3 credits

Prerequisite: *Completion of the AA Arts and Sciences Communications Options Degree*

This course focuses on design, layout, and make-up of brochures, magazine and newspaper pages, newsletters, fliers, and advertisements. Students will learn how to coordinate art and typography with content. A workshop approach is used to show students how creativity in design can increase the effectiveness of communication. Students learn how to work with various computer applications to achieve effective layout.

COM 305 *Writing Research and Technology*

3 lecture hours, 3 credits

Prerequisite: *Completion of the AA Arts and Sciences Communications Options Degree*

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

COM 324 *Introduction to New Media*

3 lecture hours, 3 credits

Prerequisite: *Completion of the AA Arts and Sciences Communications Options Degree*

Introduction to New Media surveys emerging digital communication and entertainment media and teaches new media from the perspective of the producer. Students will discuss the evolution, social and historical implications, and production of media forms with an emphasis on social networking, user generated and other web media.

COM 334 *Digital Media and Techniques*

1 lecture hour, 4 studio hours, 3 credits

Prerequisite: *Completion of the AA Arts and Sciences Communications Options Degree*

This is a studio class that will balance the theory and practice of computer art and design. The primary digital tool for this course will be the Adobe Creative Suite, but this is not solely a "learn software" class. The concepts and methodologies learned in this class will enable the students to express themselves in digital media. Student collaboration will be mixed with hands-on instructor training and demonstrations. Course assignments will build upon recently learned skills and tie in with visual literacy and design principles. Through project completion students will explore brainstorming, design process, troubleshooting, presentation and critique. The intent of this course is to develop a basic foundation upon which all further design development of Graphic Design in all its forms, print, interactive, environmental, and motion, can be built. The introduction of an essential design vocabulary and its implementation in various exploratory processes, are a main focus.

Business

BUS 300 Applied Organizational Behavior **3 lecture hours, 3 credits**

This course examines human relations in management. The course studies the concern for both task and process in the light of structure, goals and human relationships found in organized efforts. It also covers the application of new management theories in the areas of motivation, leadership and group problem-solving by a variety of means, including presentation, case studies, and role playing.

BUS 304 Issues in Business: Directed Research **3 lecture hours, 3 credits** **Prerequisite: ENG 102 - English Composition II**

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

BUS 308 Applied Human Resource Management II **3 lecture hours, 3 credits** **Catalog Description**

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

BUS 310 Business Logistics **3 lecture hours, 3 credits** **Prerequisite: BUS 221- Principles of Marketing**

This course focuses on the logistics of physical distribution and supply chains. Topics include traffic routing, inventory analysis and control, warehousing, location of production and storage facilities, and transportation.

Data Analytics

CIS 300 Advanced Database Technologies **3 lecture hours, 3 credits** **Prerequisite: Advanced Studies Degree requiring AS in Business Administration or Computer Information Systems or Computer Science**

This course covers the practical aspects of relational database systems, including database modeling using ER and EER diagrams, physical database design, the relational database query language SQL, normal forms, database integrity and transaction management. Includes a project involving an RDBMS.

Radio, Television and Film (Communications)

COM 310 Television Production I **3 lecture hours, 3 credits** **Prerequisites: COM 210, COM 212, COM 217 and COM 219**

This course introduces students to the principles and techniques of television production. Students work in production teams within a professional television studio setting. Students gain experience in all phases of production, including conception of ideas, scripting, directing and operation of equipment to produce various types of programs. Programming includes newscasts and talk shows. Students also learn to edit 30-second commercials and PSAs.

COM 312 Film Production I **3 lecture hours, 3 credits** **Prerequisites: COM 210, COM 212, COM 217 and COM 219**

Film Production I introduces students to the principles and techniques of film style production. Students work in production teams to make a series of short films designed to familiarize them with film production techniques including camera operation, shot composition and editing. In addition, students gain experience applying basic cinematic narrative concepts.

COM 317 The Movie Industry I **3 lecture hours, 3 credits** **Prerequisites: COM 210, COM 212, COM 217 and COM 219**

This course introduces students to the language of the technical elements of the motion picture and to a method for analyzing the artwork created and the messages communicated by the motion picture. Students analyze the components of motion pictures including color, lighting, editing, scripting, directing and acting.

COM 319 Screenwriting I **3 lecture hours, 3 credits** **Prerequisites: COM 210, COM 212, COM 217 and COM 219**

This course covers the basic technical requirements for writing movie scripts and the problems of adapting material to screen and script analysis. By viewing contemporary movies and studying plotting, point-of-view, character creation and dialogue, students learn how a film script is put together and write an original script.

Criminal Justice

CRJ 281 Criminal Justice Internship **1 lecture hour, 3 credits** **Prerequisites: This course is for Criminal Justice majors with an overall GPA of 3.0 (or higher) who have passed a criminal history background check and have earned a minimum of 60 college credits (8 in Forensic Science and 21 in Criminal Justice and approved electives)**

This internship is for Criminal Justice majors. It is designed to familiarize students with the philosophies and practices of criminal justice while serving as unpaid interns in host agencies. The internship will provide students the opportunity to interact with criminal justice professionals in a work environment. The purpose of the course is to facilitate student experience in the nexus between criminal justice theory and practice. Internships will be completed in one approved setting limited to federal and state criminal justice agencies.

CRJ 301 Drugs and Crime in America **3 lecture hours, 3 credits** **Prerequisites: ENG 102 or equivalent**

This course explores and analyzes the relationship between illegal drugs and crime and the relevant issues and ramifications including, but not limited to, national and international trafficking, control of the problem, legalization and explanations for drug use.

CRJ 305 Counseling and Guidance of the Offender **3 lecture hours, 3 credits** **Prerequisites: ENG 102 or equivalent**

This course is a survey of the basic principles and techniques of counseling of offenders, including interviewing, case conferences, case histories, individual and group counseling, classification procedures and team treatment participation.

CRJ 308 Theories of Crime and Criminality**3 lecture hours, 3 credits****Prerequisites: ENG 102 or equivalent**

This course explores the extent of crime and delinquency in the United States and the full range of relevant theories of causation. The synthesis and application of appropriate theories to such concepts as race, social class, gangs, drugs, family, schools and neighborhoods is covered.

Education**EDU 301 Literacy Pedagogy I****3 lecture hours, 3 credits****Prerequisite: AS Education Degree**

This course explores the broadening nature of literacy and literacy instruction in the 21st century. The course addresses both the theory and pedagogy of literacy instruction. Topics range from emergent literacy to comprehension of narrative and expository discourse and address reading and writing instruction that engages students in the K-5 classroom. This course has a particular focus on designing literacy instruction for culturally and linguistically diverse students that positions the literacy teacher as a reflective practitioner with a focus on teaching for social justice.

EDU 302 Literacy Pedagogy II**2 lecture hours, 2 credits****Prerequisite: EDU 301**

This course prepares teacher candidates to provide differentiated literacy instruction in diverse classrooms with a wide range of developmental levels, instructional needs, interests, and backgrounds. Teacher candidates will learn how to select, administer, and analyze various assessment tools to inform instruction. Field experience is required.

EDU 305 Current Policy & Practice in ESL and Bilingual Education**3 lecture hours, 3 credits****Prerequisite: AS Education degree**

This course addresses foundational theories and areas of research related to the field of TESOL and bilingual education. Special emphasis is placed on the forces affecting students and policies related to second language schooling in state, national, and international contexts. Students will develop a reflective philosophy for educating English Language learners.

EDU 310 Differentiating Instruction in the Inclusive Classroom**2 lecture hours, 2 credits****Prerequisite: AS Education degree**

This Junior Level (300) course will focus on how the diverse needs of individuals with educational disabilities/differences can be met within the general education classroom environment. Emphasis will be on developing communication/collaboration, instructional and assessment strategies that will assist the classroom teacher in diversifying instruction to meet individual needs.

EDU 315: Working with Families and Communities**3 lecture hours, 3 credits****Prerequisite: AS Education degree**

This course is designed to heighten inclusive teacher candidates' awareness of the roles that family and community have on a child's success in school. The course situates students' communities and families from an asset-based perspective, demonstrating that all children must be understood in the context of their community environment, including their families, schools, communities, and the wider society. Students will also develop skills in working effectively with diverse families in the learning community, in order to provide positive educational outcomes for children in inclusive settings.

EDU 318 Positive Behavior Support Systems**2 lecture hours, 2 credits****Prerequisite: AS Education degree**

This course exposes teacher candidates to a variety of theoretical approaches in behavior support of students. Students will develop an individual support plan and explore multi-tiered class-wide and school-wide behavior support systems to support all students. Teacher candidates will also have the opportunity to develop and demonstrate competencies related to positive behavior intervention supports in conjunction with a required field experience component.

EDU 320 Clinical Experience I in Inclusive Education**1 clinical hour, 1 credit****Prerequisite: AS Education degree**

This 1 credit Clinical Experience field-based course requires approximately 1 day a week in the field and focuses on inclusive pedagogy, including: differentiating instruction, implementing principles of Universal Design for Learning and adapting curriculum and classroom environments to support diverse learners in inclusive settings. The course is designed to align with the program goals of the BA in Inclusive Education and to accompany EDU 310: Differentiating Instruction in the Inclusive Classroom. Students develop the skills and have the opportunity to implement their skills in the field to support a wide range of learners, collaborate with cooperating teachers, as well as support school-based professionals and families. They learn to implement content-rich interdisciplinary learning experiences which address the learning needs of all students, utilizing a strengths-based perspective to differentiate and adapt instruction for individual learners. The program prepares students to create communities of learning based on social justice and culturally relevant pedagogical practice. The Inclusive Clinical Experience will be designed to present students with opportunities to focus on the practice they are developing in Differentiated Instruction. This course is a required course in the B.A. in Inclusive Education program, Elementary Education specialization (K-6).

EDU 323 Assessment in Special and Inclusive Education**3 lecture hours, 3 credits****Prerequisite: AS Education degree**

This course emphasizes linking assessment with educational instruction in inclusive and special education. Prospective classroom teachers will learn how to routinely utilize formal and informal assessments to support all students in various inclusive settings. Teacher candidates will also have the opportunity to develop and demonstrate competencies related to assessment in conjunction with a required field experience component.

EDU 327 Clinical Experience II in Inclusive Education**1 clinical hour, 1 credit****Prerequisite: AS Education degree**

This 1 credit Clinical Experience field-based course requires approximately 2 days a week in the field and focuses on inclusive pedagogy, including: differentiating instruction across content areas, with a particular focus on Social Studies and Science, implementing principles of Universal Design for Learning and adapting curriculum and classroom environments to support diverse learners in inclusive settings. The course is designed to align with the program goals of the BA in Inclusive Education and to accompany EDU 335: Social Studies Methods for the Inclusive Classroom and EDU 340: Science Inquiry and Methods for the Inclusive Classroom. Students build on the skills they have been developing in coursework and through EDU 320: Clinical Experience I in Inclusive education and have the opportunity to implement their skills in the field to support a wide range of learners, collaborate with cooperating teachers, school-based professionals, and families. This course is a required course in the B.A. in Inclusive Education program, Elementary Education specialization (K-6).

**EDU 330 Trauma Informed Practices to Promote Social
Emotional Development
Educational Settings**

3 lecture hours, 3 credits

Prerequisite: AS Education degree

The purpose of this course is to provide future educators, professionals, and administrators in P-12 and higher educational settings with an overview of trauma-informed practices in educational settings, that support the social emotional development of all students. Students will explore the core tenets of trauma-informed practices, that includes social emotional development, and how to address systemically through whole school initiatives, individual classrooms, and across content areas. Students will also learn how to implement and evaluate these practices.

EDU 335 Social Studies Methods for the Inclusive Classroom

3 lecture hours, 3 credits

Prerequisite: AS Education degree

The course focuses on engaging prospective teachers in inclusive social studies pedagogy in the K-6 inclusive elementary classroom. The course will equip students with instructional models that will prepare them to teach history and social sciences integrated with other subjects in the inclusive elementary classroom. This course will emphasize how prospective teachers might build inclusive social studies assessments using standards from the National Council for Social Studies and the Common Core State Standards. This course is a required course for students enrolled in the B.A. in Inclusive Education major.

**EDU 340 Science Inquiry & Methods for the Inclusive
Classroom**

3 lecture hours, 3 credits

Prerequisite: AS Education degree

This course focuses on assessment practices in science education and developing instructional strategies for teaching science content as a means for achieving scientific literacy and understanding scientific inquiry. Candidates will explore strands of science including Nature of Science, Science as Inquiry, and Science Outreach and Resources, as well as Technology & Engineering for Elementary teaching. Candidates will be exposed to a variety of high leverage practices and science curricula with an emphasis on integrated instruction in a community context and meeting the unique needs of all learners.

EDU 345 Mathematics Strategies in the Inclusive Classroom

2 lecture hours, 2 credits

Prerequisite: AS Education degree

This course is designed to help teacher candidates prepare to teach mathematics in diverse, inclusive elementary classrooms. In order to do that, this course will focus on teaching through inquiry and problem solving, using appropriate interventions, and shaping the learning environment. The co-requisite STREAM practicum/clinical experience should be considered a laboratory for this course, where teacher candidates observe, reflect, question, and make connections to what is discussed in class in terms of both content and pedagogy.

Emergency Management Option

EMG 300 Critical Infrastructure

3 lecture hours, 3 credits

Prerequisite: 201

This course introduces student to the methods and approaches to protecting critical infrastructure a means of effectively protecting people, physical entities, and cyber systems and the establishment of an effective incident command operation. Moreover, students will examine vulnerability risk reduction strategies, contingency planning, and strategic partnership models as they are applied to the critical infrastructure sectors. Course topics include risk management team crisis communication, and public and private sector roles and relationships in emergency management.

**EMG 305 Natural and Technological Hazards: Migration
and Response**

3 lecture hours, 3 credits

Prerequisite: EMG 201

Emergency management at its core, encompasses the recognition and management of natural disasters, technological disasters, and Na-Tech (hybrid) disasters. This course examines different types of natural disaster and integrates perspectives on risk, vulnerability, resilience, and migration planning through an examination of natural and technological hazards, including earthquakes, tsunamis, volcanoes, floods, landslides, hurricanes, tornadoes, wildfires, climate change, and a host of technological and human-induced hazards. Moreover, this class is needed to underscore the basic tenants of emergency management as a set of diverse response to various emergencies from the federal, state and local perspectives, the management of mass casualties, and ways to rebuild more resilient communities following a disaster

EMG 309 Emergency Operations and Business Continuity

3 lecture hours, 3 credits

Prerequisite: EMG 201

This course addresses the issues involved in continuing organizational operations when businesses, schools, governments, non-profit organizations, etc. are faced with a catastrophic disaster. While it is estimated that nearly 43 percent of organizations impacted by disaster and crisis will never reopen and 51 percent will fall within two years, it is important to understand the underlying mechanisms that enhance a business' opportunity to bounce back after a crisis. This course provides a step-by-step approach to the development of a comprehensive emergency management (disaster) plan for organizations. It applied to the manufacturing companies, corporate officers, retailers, utilities, government agencies, or any organizations where people work or gather. The course will provide the opportunity for students to gain exposure to empirical and authoritative data and research 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.

Exercise Science

HPE 300 Kinesiology

3 lecture hours, 3 credits

Prerequisite: C or Higher in BIO 105 and BIO 106

This course provides the student with an understanding of human movement from an anatomical, physiological, and mechanical perspective. Emphasis will be placed on application of these principles to fundamental movement and physical education activity.

HPE 305 Exercise Physiology with Laboratory

3 lecture hours, 2 lab hours, 4 credits

Prerequisite: C or higher in BIO 105 and BIO 106

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

Nursing

NURS 303 Comprehensive Health Assessment

3 lecture hours, 3 credits

Prerequisites: Graduation from an accredited school of nursing. Registered Nurse license in good standing.

This course builds upon the Registered Nurse's fundamental knowledge and skills of health assessment

In utilizing a systematic approach, the student will develop a holistic approach in assessing the patient across the lifespan. Upon completion, the student will show competency in obtaining a thorough health history and becoming efficient in the physical skills of inspection, palpation, percussion and auscultation. Differences between normal and abnormal findings will be explored and appropriate documentation of findings will be stressed. Students will also be exposed to the cultural differences in health and will incorporate evidence-based approaches to assessment.

NURS 305 Nursing Informatics

3 lecture hours, 3 credits

Prerequisites: Graduation from an accredited school of nursing. Registered Nurse license in good standing.

This 300-level course reviews the information needs and information systems related to nursing practice. Students will experience the manner in which informatics supports all areas of practice, including education, clinical practice, administration and research.

NURS 308 Topics in Healthcare Ethics

3 lecture hours, 3 credits

Prerequisites: Graduation from an accredited school of nursing. Registered Nurse license in good standing.

This course examines moral dilemmas created or intensified by recent advances in medical technology and studies ways of analyzing those dilemmas. Discussion topics include: euthanasia and the right to die, abortion, behavior modification, allocation of scarce medical resources, in vitro fertilization, genetic screening and engineering and human experimentation. These moral dilemmas will be related to nursing.

Psychology

PSY 300 Introduction to Sport and Exercise Psychology

3 lecture hours, 3 credits

Prerequisite: PSY 101

This course examines theories and models of psychology and how they relate to human performance. Topics include personality, exercise environments, motivation, and arousal. Stress and anxiety, group processes, leadership and psychological well-being and their impact on sport and exercise is also discussed.

PSY 305 Psychology of Scientific Thinking

3 lecture hours, 3 credits

Prerequisite: PSY 101, Rowan 3+1 students ONLY

Students will develop an understanding of the methods of science and its relationship to the outside world. Critical thinking and an empirical approach to evaluating scientific claims will be emphasized. Students will be introduced to the psychological processes underlying the scientific method and the persistence of belief in pseudoscientific and non-scientific claims.

PSY 306 Statistics in Psychology

3 lecture hours, 3 credits

Pre or Corequisite PSY 305

This course focuses on the many statistical procedures used in psychological research. Students will learn to select and calculate appropriate procedures to analyze both quantitative and qualitative data. They will gain an understanding of how to select and perform descriptive, correlational, and inferential procedures. There will also be emphasis throughout the course on learning to use statistical software.

PSY 308 Social Psychology of Sport

3 lecture hours, 3 credits

Prerequisite: PSY 101 and PSY 300

This course examines issues related to athletic performance based on theoretical perspectives and current research addressing the impact of social concepts on sport and exercise. Topics include relationships in sport, team cohesion, group dynamics, effective communication, coach's impact on leadership, motivational climates and athletic transition.

PSY 310 Psychology as a Profession and Practice

3 lecture hours, 3 credits

Prerequisite: PSY 101, Rowan 3+1 students ONLY

Students will be introduced to applied areas in psychology, gaining knowledge about how psychological information is used to impact people's lives. The ways in which psychological knowledge are applied to understand individuals and the social world will be examined. Career paths in psychology and preparation for a career in psychology or other associated disciplines will be explored.

PSY 315 Research Methods in Psychology

3 lecture hours, 3 credits

Prerequisite: PSY 306

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

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)

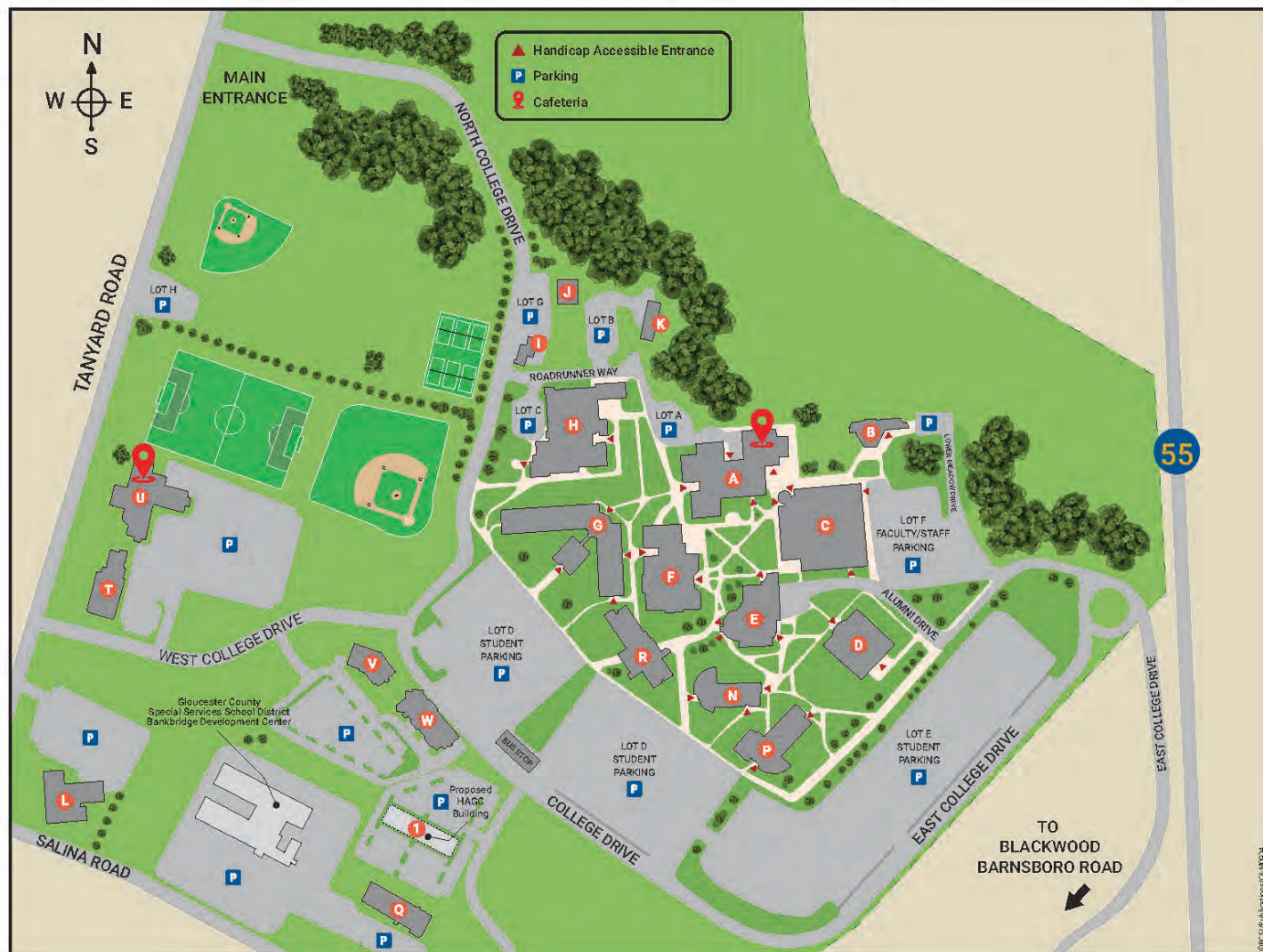
Transfer agreements have been created with two Historically Black Colleges and Universities (HBCU) to provide opportunities for seamless transitions to four-year.

- Delaware State University
- Lincoln University

Gloucester Campus Map

1400 Tanyard Road, Sewell, NJ 08080

RCSJ.edu • 856-468-5000



- | | | |
|--|---|---|
| <p>A. Eugene J. McCaffrey College Center (CC)
• Roadrunner Cafe 📍
• Security</p> <p>B. Medical Arts Center</p> <p>C. Education and Humanities Center (EHC)</p> <p>D. Rastelli Business & Corporate Center (BAC)</p> <p>E. Student Services
• Testing Center</p> <p>F. Library - Learning Commons
• Academic Support Center
• College Store
• Library</p> | <p>G. Scott Hall - STEM Center (SCOTT)</p> <p>H. Physical Education Center (PEC)
• Fitness Center/Gymnasium
• Law and Justice Education Center (LJC)
• Police Academy
• Real Time Crime Center</p> <p>I. Safety & Security
• Sheriff's Office</p> <p>J. Gloucester County Allied Health Center</p> <p>K. Facilities</p> <p>L. Career and Technical Education Center</p> | <p>N. Acenda Behavioral Sciences Center (BSC)</p> <p>P. Inspira Nursing & Health Professions Center (NAH)</p> <p>Q. Stephen M. Sweeney Center for Special Services</p> <p>R. Math & Engineering Center (MEC)</p> <p>T. Economic Development Center</p> <p>U. Rowan Medicine
• Together Cafe 📍</p> <p>V. Inspira Health Sciences Center</p> <p>W. Advance Manufacturing and Applied Science (G.C.I.T.)</p> |
|--|---|---|



GLOUCESTER CAMPUS

1400 Tanyard Road
Sewell, NJ 08080
856-468-5000

CUMBERLAND CAMPUS

3322 College Drive
Vineland, NJ 08360
856-691-8600

A Nationally Recognized College



*College
Excellence*



★ ★ ★ ★ ★
*FIVE STAR CHAPTER
Academic Excellence*



*Athletic
Excellence*



RCSJ.edu