



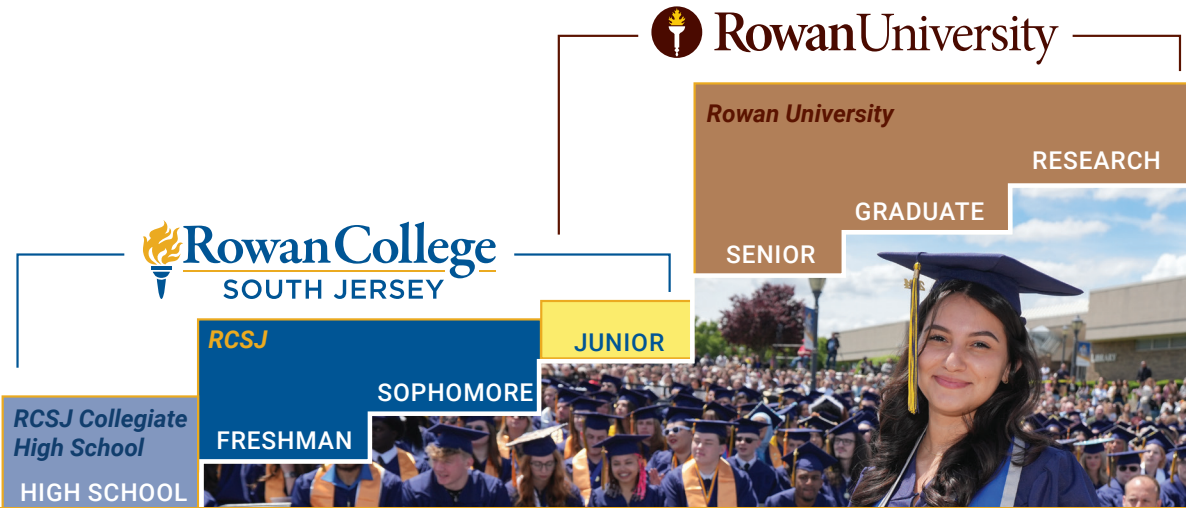
Gloucester & Cumberland Campuses

# Academic Catalog

# 2025 2026



# Pathway Partnership Programs



## The Rowan Advantage

RCSJ and Rowan University’s partnership makes higher education more affordable by providing a direct, cohesive pathway to a bachelor’s degree with seamless transfer capabilities.

Upon the completion of 12 credits, 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 RCSJ tuition and fee rates while attending RCSJ, saving them substantial time and money.

RCSJ students can transfer up to 90 credits toward their Rowan University degree. Transfer advisors are embedded in the RCSJ community and available onsite at RCSJ’s Cumberland and Gloucester campuses providing transfer support and advisement.

**Discover your pathway to a better bachelor’s degree.**

Visit [RCSJ.edu/RU](https://RCSJ.edu/RU) for more information.

## Rowan Choice

RCSJ students! Experience vibrant campus living and affordable housing with Rowan Choice.

**Rowan  
CHOICE**

### RCSJ Collegiate High School

Attain a high school diploma and college credits or associate degree simultaneously. Enjoy small classes, expert faculty, and a supportive community that prepares motivated high school students for college and career success. All courses can be completed online.

### Traditional Transfer

Obtain your associate degree then transfer seamlessly through a trusted partnership that maximizes your credits and minimizes costs. Enjoy small class sizes at RCSJ, then transition to Rowan’s vibrant campus to complete your bachelor’s degree. It’s a smart, affordable path to academic and career success.

### 3+1 Program

Earn your bachelor’s degree for less than \$35,000! Complete three years of coursework at RCSJ paying RCSJ tuition and fees and one year at Rowan University to secure your four-year degree. Students have 11 majors to choose from.

### Advanced Pathways

Start your path to an advanced credential in Medicine, Engineering, and Veterinary Science. Gain early college credits, hands-on experience, and expert mentorship. These innovative programs fast-track your journey toward a rewarding career in high-demand fields—all while saving time and money.

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**Dr. Brenden Rickards,**  
**RCSJ's Interim President**

## Welcome to Rowan College of South Jersey

Dear RCSJ Community,

It is my distinct honor to step into the role of Interim President at Rowan College of South Jersey. As we look to the future of higher education, our commitment remains focused on meeting the diverse needs of today's students and the communities we serve.

At RCSJ, we design adaptable academic programs that reflect the realities of students' lives. Whether it's through short or long-term certificates, associate degrees, or innovative 3+1 and pathway programs, our goal is to provide flexible, relevant options that lead to meaningful credentials and successful careers.

Equally important is our responsibility to serve the broader community and industry partners. We are ensuring that our academic offerings and engagement efforts remain aligned with evolving workforce demands, particularly in high-need areas like manufacturing, the trades, and health care. These initiatives are already underway, and I am committed to seeing them through to completion.

I also look forward to building on our strong partnership with Rowan University to open even more doors for our students. Together, we can create seamless, affordable pathways to advanced degrees and greater opportunities.

RCSJ is proud to serve both Gloucester and Cumberland counties. I am excited to collaborate with our faculty, staff, students, and community members to continue fostering a sense of unity and purpose. By fully immersing the College in the culture of our counties, we will support and uplift our communities—today and for generations to come.

Sincerely,

Brenden Rickards, Ph.D.  
Interim President, RCSJ

## Academic Calendar 2025-2026

### Fall Semester 2025

9/1..... M.... Labor Day, College Holiday	10/27 ..... M.... Start 7B Classes
9/2..... T.... First Day of Weekday Classes 15, 7A, 5A, 10E	11/7 ..... F.... End 5B & 10E Classes
9/6..... S.... First Day of Saturday Classes	11/10 ..... M.... Start 5C Classes
9/7..... Su... Last Day to Add/Drop a Class 15 wk	11/11 ..... T.... Grades Due 5B & 10E Classes
10/3 ..... F.... End 5A Classes	11/14 ..... F.... Last Day to Withdraw 15 wk Classes
10/6 ..... M.... Start 5B Classes	11/26 ..... W.... No Classes Held after 4 p.m.
10/7 ..... T.... Grades Due 5A Classes	11/27 ..... R.... Thanksgiving, College Holiday
10/15 ..... W.... Professional Development Day, No classes before 4 p.m.	11/28 ..... F.... College Holiday
10/17 ..... F.... End 7A Classes	11/29 ..... S.... No Classes
10/21 ..... T.... Grades Due 7A Classes	12/6 ..... S.... Saturday Classes End
10/24 ..... F.... Early Alerts/Midterm Grades	12/12 ..... F.... End of Weekday 15, 10, 7B, 5C
	12/16 ..... T.... Final Grades Due 15, 10, 7B, 5C

### Winter Semester 2026

12/8 ..... M.... First Day of Winter Session A	1/13 ..... T.... End of Winter Session B
12/15 ..... M.... First Day of Winter Session B	1/13 ..... T.... Grades Due Winter Session A
12/25-1/1 ..... College Closed	1/15 ..... R.... Grades Due Winter Session B
1/9..... F.... End of Winter Session A	

### Spring Semester 2026

1/19 ..... M.... Martin Luther King, Jr., College Holiday	3/23 ..... M.... Start 7B Classes
1/20 ..... T.... First Day of Weekday Classes 15, 7A, 5A, 10E	4/2..... R.... End 5B & 10E Classes
1/24 ..... S.... First Day of Saturday Classes	4/3..... F.... College Holiday
1/25 ..... Su... Last Day to Add/Drop a Class 15 wk	4/4..... S.... College Closed
2/20 ..... F.... End 5A Classes	4/6..... M.... Start 5C Classes
2/23 ..... M.... Start 5B & 10 Classes	4/7..... T.... Grades Due 5B & 10E Classes
2/24 ..... T.... Grades Due 5A Classes	5/2..... S.... Saturday Classes End
3/6..... F.... End 7A Classes	5/7..... R.... Last Day of Classes 15, 10, 7B, 5C
3/10 ..... T.... Grades Due 7A Classes	5/11 ..... M.... Final Grades Due 15, 10, 7B, 5C
3/13 ..... F.... Early Alerts/Midterm Grades	5/14 ..... R.... Commencement – Cumberland Campus
3/16-3/20 ..... Spring Break	5/15 ..... F.... Commencement – Gloucester Campus

### Summer Semester 2026

5/18 ..... M.... First Day of Weekday Classes 15, 7A, 5A	7/4..... S.... Independence Day, College Holiday
5/25 ..... M.... Memorial Day, College Holiday	7/8..... W.... Grades Due 7A Classes
6/18 ..... R.... End 5A Classes	7/13 ..... M.... Start 7B Classes
6/19 ..... F.... Juneteenth, College Holiday	7/23 ..... R.... End 5B Classes
6/22 ..... M.... Start 5B & 10 Classes	7/27 ..... M.... Start 5C Classes
6/23 ..... T.... Grades Due 5A Classes	7/28 ..... T.... Grades Due 5B Classes
7/2..... R.... End 7A Classes	8/26 ..... W.... Last Day of Summer Classes 15, 10, 7B, 5C
7/3..... F.... College Holiday	8/27 ..... R.... Final Grades Due 15, 10, 7B, 5C

# 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.

Rowan College seeks to assist each person in the development of a career, while at the same time developing humanistic values and encouraging personal enrichment. The College is dedicated to its community and accepts the responsibility of providing post-secondary educational opportunities to all who seek them. It provides college and university transfer programs, career education, community services, and special assistance programs.

Rowan College seeks to bring higher education within the geographic and financial reach of all residents.

## State of New Jersey Vision for Higher Education

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

## Rowan College of South Jersey Mission

Rowan College of South Jersey is a 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.  
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## Cumberland County Board of County Commissioners

Jim Sauro, *Director, Co-Education Liaison*  
 Art Marchand, *Deputy Director*  
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 Robert Austino  
 Victoria Groetsch-Lods, *Co-Education Liaison*  
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## Rowan College of South Jersey Board of Trustees

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 Dr. Warren S. Wallace  
 Brenden B. Rickards, Ph.D., *ex officio*

*List as of July 1, 2025*

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 2025-26 Rowan College of South Jersey Academic Catalog is accurate at the date of publication in September 2025 and is subject to change.

# Annual Public Notice

In accordance with the requirements of ED-OCR Guidelines IV-O (Appendix B, 34 C.F.R. Part 100 and Appendix A, 34 C.F.R. Part 106) and applicable civil rights regulations (Title VI and Title VII of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act, the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972), and other Federal, State and local laws, and in accordance with our values, this notice shall serve to advise students, parents, employees, and the general public that all Perkins eligible Career and Technical Education (CTE) opportunities offered by Rowan College of South Jersey (RCSJ) will be available to all students regardless of race, color, national origin, sex, and disability.

The Board of Trustees is committed to providing a workplace and academic environment that maintains and promotes affirmative action and equal opportunity for all employees and students without discrimination. 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.

RCSJ is committed to providing a working and learning environment free from discrimination and unlawful harassment in admission, access to, treatment, or employment in all programs and activities for students and employees.

Students are admitted into RCSJ CTE programs without regard for race, color, national origin, gender or disability. CTE courses, program offerings, and admission criteria can be found online at [RCSJ.edu/Enroll](https://www.rcsj.edu/Enroll). RCSJ will take steps to assure that the lack of English language skills will not be a barrier to admission and participation in career and technical education programming.

The College offers more than 100 programs including, Associate in Arts (A.A.), Associate in Science (A.S.), Associate in Applied Science (A.A.S.), and certificates that can be viewed in the RCSJ Academic Catalog. Additionally, the College offers Perkins-eligible Career and Technical Education programs in the following subject areas:

- Accounting
- Agribusiness
- Alcohol and Drug Counseling
- Automotive Technology
- Business Administration
- Business Management
- Business Software Tools
- Ceramics Technology
- Certified Clinical Medical Assistant (CCMA)
- Computer Graphic Arts: Game/Interactive Design
- Computer Graphic Arts: Print Design Option
- Computer Information Systems
- Criminal Justice
- Criminal Justice: Emergency Management
- Criminal Justice: Corrections
- Criminal Justice: Forensics and Technology
- Cybersecurity
- Dental Assisting
- Diagnostic Medical Sonography (DMS)
- Digital Marketing
- Digital Photography
- Education
- Electrical Engineering Technology
- Engineering Technology
- Engineering Technology/Electronics Technology
- Engineering Science
- Engineering Technologies Construction Supervision
- Entrepreneurship
- Exercise Science
- Finance
- Health, Physical Education, and Recreation (HPER)
- Health Science
- Human Resource Management
- Justice Studies
- Law Enforcement
- Law and Paralegal Studies
- Mechanical Engineering Technology
- Medical Coding
- Network Management
- Nuclear Medicine Technology (NMT)
- Nursing LPN-RN
- Nursing (NURS)
- Physical Therapist Assistant
- Practical Nursing
- Radiography
- Surveying Engineering Technologies
- Technical Studies
- Technology Help Desk Support
- Website Development
- Wind Power and Turbine Technology

For questions concerning discrimination, contact Almarie J. Jones, Gloucester Campus, Vice President, Chief Compliance Officer/Senior Title IX Officer at 856-415-2154 or [ajones@rcsj.edu](mailto:ajones@rcsj.edu); Nathaniel Alridge, J.D., Cumberland Campus, Executive Director, Threat Assessment Management, Title IX, Compliance and Judicial Affairs at 856-498-9948 or [nalridge@rcsj.edu](mailto:nalridge@rcsj.edu). For disabilities, contact Carol Weinhardt, Gloucester Campus, Director Department of Special Services, ADA/504 Officer at 856-415-2247 or [cweinhar@rcsj.edu](mailto:cweinhar@rcsj.edu); Meredith Vicente, Cumberland Campus, Senior Director, Accessibility and Support Services 856-200-4688 or [mvicent1@rcsj.edu](mailto:mvicent1@rcsj.edu).

# Aviso Público Anual

De acuerdo con los requisitos de las Directrices ED-OCR IV-O (Apéndice B, 34 C.F.R. Parte 100 y Apéndice A, 34 C.F.R. Parte 106) y las normas de derechos civiles aplicables, (Título VI y Título VII de la Ley de Derechos Civiles de 1964, Sección 504 de la Ley de Rehabilitación de 1973, la Ley de Estadounidenses con Discapacidades, la Ley de Discriminación por Edad de 1975, el Título IX de las Enmiendas a la Educación de 1972) y otras leyes estatales y locales, y de acuerdo con nuestros valores, este aviso servirá para informar a los estudiantes, padres, empleados y al público en general que todas las oportunidades de Educación Técnica y Profesional (CTE) elegibles para Perkins ofrecidas por Rowan College of South Jersey (RCSJ) estarán disponibles para todos los estudiantes, independientemente de su raza, color, nacionalidad, sexo y discapacidad.

La Junta Directiva se compromete a proporcionar un entorno académico y laboral que mantenga y promueva la acción afirmativa y la igualdad de oportunidades para todos los empleados y estudiantes sin discriminación basadas. Estas categorías son raza, credo (religión), color, origen nacional, nacionalidad, ascendencia, edad, sexo (incluido el embarazo y el acoso sexual), estado civil, estado de pareja de hecho o unión civil, orientación afectiva o sexual, identidad o expresión de género, rasgo hereditario atípico de células o sangre, información genética, responsabilidad por el servicio militar o discapacidad mental o física, incluidas el SIDA y las enfermedades relacionadas con el VIH.

RCSJ se compromete a proporcionar un entorno de trabajo y aprendizaje libre de discriminación y acoso ilegal en la admisión, el acceso, el tratamiento o el empleo en todos los programas y actividades para estudiantes y empleados.

Los estudiantes son admitidos en los programas de CTE de RCSJ sin importar su raza, color, origen nacional, género o discapacidad. Los cursos de CTE, la oferta de programas y los criterios de admisión se pueden encontrar en línea en RCSJ.edu/Enroll. RCSJ tomará medidas para asegurar que la falta de habilidades en el idioma inglés no sea una barrera para la admisión y participación en programas de educación técnica y profesional.

El Colegio ofrece más de 100 programas, entre ellos, Asociado en Artes (A.A.), Asociado en Ciencias (A.S.), Asociado en Ciencias Aplicadas (A.A.S.) y certificados que se pueden ver en el Catálogo Académico de RCSJ. Además, el Colegio ofrece programas de Educación Técnica y Profesional elegibles para Perkins en las siguientes áreas:

- Contabilidad
- Agronegocio
- Terapia de Alcohol y Drogas
- Tecnología Automotriz
- Administración de Empresas
- Manejo de Empresas
- Herramientas de Software Empresarial
- Tecnología Cerámica
- Asistente Médico Clínico Certificado (CCMA)
- Artes Gráficas por Computadora: Diseño de Juegos/Interactivo
- Artes Gráficas por Computadora: Opción de Diseño de Impresión
- Sistemas de Información Computacional
- Justicia Penal
- Justicia Penal: Manejo de Emergencias
- Justicia Penal: Departamento de Corrección
- Justicia Penal: Medicina Forense y Tecnología
- Ciberseguridad
- Asistencia Dental
- Sonografía Médica Diagnóstica (DMS)
- Publicidad Digital
- Fotografía Digital
- Educación
- Tecnología de Ingeniería Eléctrica
- Tecnología de Ingeniería
- Tecnología de Ingeniería/Tecnología Electrónica
- Ciencias de la Ingeniería
- Tecnologías de Ingeniería Supervisión de la Construcción
- Emprendimiento
- Ciencia del Ejercicio
- Finanzas
- Salud, Educación Física y Recreación (HPER)
- Ciencia de la Salud
- Gestión de Recursos Humanos
- Estudios de Justicia
- Fuerza Policial
- Derecho y Estudios Paralegales
- Tecnología de Ingeniería Mecánica
- Codificación Médica
- Manejo de Redes
- Tecnología de Medicina Nuclear (NMT)
- Enfermería LPN-RN
- Enfermería (NURS)
- Asistente de Fisioterapeuta
- Enfermería Práctica
- Radiografía
- Tecnologías de Ingeniería Topográfica
- Estudios Técnicos
- Apoyo Tecnológico
- Desarrollo de Páginas Web
- Energía Eólica y Tecnología de Turbinas

Si tiene preguntas sobre discriminación, comuníquese con Almarie J. Jones, Gloucester Campus, Vicepresidenta, Directora de Cumplimiento/Oficial Superior del Título IX al 856-415-2154 o [ajones@rcsj.edu](mailto:ajones@rcsj.edu); Nathaniel Alridge, J.D., Campus de Cumberland, Director Ejecutivo, Gestión de Evaluación de Amenazas, Título IX, Cumplimiento y Asuntos Judiciales al 856-498-9948 o [nalridge@rcsj.edu](mailto:nalridge@rcsj.edu). Para discapacidades, comuníquese con Carol Weinhardt, Gloucester Campus, Directora del Departamento de Servicios Especiales, Oficial de ADA/504 al 856-415-2247 o [cweinhardt@rcsj.edu](mailto:cweinhardt@rcsj.edu) Meredith Vicente, Campus de Cumberland, Directora Sénior, Servicios de Accesibilidad y Apoyo 856-200-4688 o [mvicent1@rcsj.edu](mailto:mvicent1@rcsj.edu).

# 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, 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.

# Accreditation

Rowan College of South Jersey is accredited by the Middle States Commission on Higher Education. The Commission may be contacted at 1007 North Orange Street, 4th Floor, MB #166, Wilmington, DE 19801 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](mailto: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](mailto: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, in collaboration with Joint Review Committee on Educational Programs in Nuclear Medicine Technology, 820 W Danforth Rd, Edmond, OK 73003, phone: 1(405) 285-0546, email: [mail@jrncmt.org](mailto:mail@jrncmt.org).
- The Registered 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](http://acenursing.org), and the New Jersey Board of Nursing, 124 Halsey Street, P.O. Box 45010, Newark, NJ 07101, phone: 973-504-6430, website: [www.njconsumeraffairs.gov/nur](http://www.njconsumeraffairs.gov/nur). Questions may be addressed to the Board of Nursing and the ACEN at their respective address.
- The Paralegal degree and certificate programs are approved by the American Bar Association (ABA) – ABA Standing Committee on Paralegals, 321 N. Clark Street, Chicago, IL phone: 60654-7598, website: [americanbar.org/groups/paralegals](http://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](mailto:accreditation@apta.org); website: <http://www.capteonline.org>. If needing to contact the program directly, please call 856-415-2179 or email [edoyle@rcsj.edu](mailto:edoyle@rcsj.edu).
- The Practical Nursing 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, website: [www.njconsumeraffairs.gov/nur](http://www.njconsumeraffairs.gov/nur).
- The Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606, phone: 312-704-5300, website: [jrcert.org](http://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](http://state.nj.us/dep/rpp).
- The degree programs for Accounting, Business Administration, Digital Marketing, and Human Resource Management, as well as the Certificate of Achievement programs for 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, website: [acbbsp.org](http://acbbsp.org). Additionally, we have submitted an application for the accreditation of the Entrepreneurship degree program and the related Certificate of Achievement, with results currently pending.
- The Dental Assisting program has received initial accreditation through the Commission on Dental Accreditation (CODA 211 East Chicago Avenue, Chicago, IL 60611 phone: 800-232-6108, website: <https://coda.ada.org/>, and the New Jersey Board of Dentistry, 124 Halsey Street, P.O. Box 45010, Newark, NJ 07101, phone: 973-504-6405, website: [www.njconsumeraffairs.gov/den/Pages/default.aspx](http://www.njconsumeraffairs.gov/den/Pages/default.aspx). Questions may be addressed to the Board of Dentistry and CODA at their respective address.
- RCSJ has submitted an application seeking initial accreditation from The American Veterinary Medical Association Committee on Veterinary Technology Education and Activities (AVMA CVTEA). The submission and acceptance of our application does not guarantee accreditation, and applying for accreditation does not grant any temporary accreditation status. Students will be kept informed as to the status of accreditation. Though the Veterinary Technology Program at Rowan College of South Jersey intends to attain accreditation, there is no guarantee that accreditation will be granted. Graduation from an accredited school is required to obtain credentials as a Certified Veterinary Technician (CVT) in New Jersey.
- Rowan College of South Jersey is designated as a National Center of Academic Excellence in Cyber Defense (CAE-CD) through 2028, and its Cybersecurity Associate of Science degree has received CAE-CD Program of Study Validation from the National Security Agency and the Department of Homeland Security through 2027.

## Degrees & Certificates

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

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

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

#### **ASSOCIATE IN ARTS DEGREE (A.A.)**

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

#### **ASSOCIATE IN FINE ARTS DEGREE (A.F.A.)**

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

#### **ASSOCIATE IN SCIENCE DEGREE (A.S.)**

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

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

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

#### **SPECIALIZED ASSOCIATE DEGREE**

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

### *Certificates*

#### **CERTIFICATE PROGRAMS (CERT)**

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

#### **CERTIFICATE OF ACHIEVEMENT PROGRAMS (COA)**

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

### *Degree Requirements*

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

1. Earn a GPA of 2.000 or higher;
2. Complete all courses required for their 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.*/A.F.A.
<b>General Education**</b>	33	30	20
<b>Electives</b>	27	30	40
<b>Total</b>	60	60	60

\* Specialized degree programs 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 150

### *General Education Electives*

See “General Education Electives” on page 151 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

# 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. Students are required to complete all course work, including tests and exams, online.

**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 are 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](mailto:eLearning@rcsj.edu), or visit [RCSJ.edu/eLearning](https://rcsj.edu/eLearning) and click on "Is eLearning Right for You?"

### **Fully online programs at RCSJ on both campuses:**

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

### **Gloucester-based fully online programs:**

Arts & Sciences, A.A.  
 Arts & Sciences: Communication Option, A.A.  
 Arts & Sciences: History Option, A.A.  
 Arts & Sciences: Sociology Option, A.A.

### **Cumberland-based fully online programs:**

Cybersecurity, A.S.  
 Justice Studies, A.S.  
 Liberal Arts, A.A.  
 Network Management, A.A.S.

### **Fully online certificates on both campuses:**

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

## *Resources to Enhance Your Education*

### **COMPUTERS ON CAMPUS**

Rowan College of South Jersey is dedicated to ensuring open access to state-of-the-art technology through its well-equipped computer facilities, which include access to research databases and a variety of software applications.

The College provides high-speed internet, and all computers are connected through a local area network to support seamless access.

Each computer lab is designed to meet a range of student needs. Support for academic work—such as completing homework assignments, report writing, accessing the internet, using design software, or participating in eLearning—is available in the Open Computer Labs located in the Library and the Learning Commons (LC).

Users should check the campus technology website at [RCSJ.edu/GC/TechSupport](https://rcsj.edu/GC/TechSupport) or [RCSJ.edu/TS/Cumberland](https://rcsj.edu/TS/Cumberland) to see what new services and software are available.

# Course Abbreviation Key

**CLASS DAYS:** The key to class days is: Monday (M), Tuesday (T), Wednesday (W), Thursday (R), Friday (F), and Saturday (S).

**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.

**TBA:** to be announced; check the website at [RCSJ.edu/GC/Courses](https://www.rcsj.edu/GC/Courses) or [RCSJ.edu/CC/Courses](https://www.rcsj.edu/CC/Courses) (Course Registration section) prior to the start of class for updated information.

## Gloucester Course Abbreviation Key:

### COURSE SECTION NUMBER CODES:

Section Numbers	Course Type
GC01-999	In-Person
GHY01-999	Hybrid
CON01-999	Online
GLON01-999	Live Online
GOFF01-999	Off-Campus
GDE01-999	Gloucester Dual Enrollment
GDC01-999	Gloucester Dual Credit
GDFT01-999	Deptford High School
GCT01-999	GCIT, Gloucester County Institute of Technology
GRC01-999	Rowan Choice

## Gloucester Campus Building Codes:

- AMAS** – Advanced Manufacturing & Applied Science (100 & 200 levels)
- BAC** – Rastelli 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 rooms)
- LC** – Learning Commons (Academic Support Center)
- LJC** – Law and Justice Education Center, Police Academy (300-level rooms)
- MAC** – Medical Arts Center (Lecture Hall)
- MEC** – Math and Engineering Center (1200-level rooms)
- NAH** – Nursing and Allied Health Center (1000-level rooms)
- 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

## Gloucester Satellite Locations:

- BWL** – Bowlero, Deptford
- CLINIC** – Clinical
- DFT** – Deptford High School
- ENTPR** – Enterprise Center – Rowan University
- GCIT** – Gloucester County Institute of Technology
- RBLVD** – Rowan Boulevard

## Cumberland Course Abbreviation Key:

### COURSE SECTION NUMBER CODES:

Section Numbers	Course Type
CC01-999	In-Person
CHY01-999	Hybrid
CON01-999	Online
CLON01-999	Live Online
COFF01-999	Off-Campus
CDE01-999	Cumberland Dual Enrollment
CDC01-999	Cumberland Dual Credit

## Cumberland Campus Building Codes:

- ARP** – Arpino Education & Humanities Center (200)
- GUAR** – Guaracini Center (300)
- LIB** – Library (800)
- LUC** – Luciano Center (100)
- MAIC** – Millville Arts & Innovation Center (1700)
- MILL** – Mechatronics Innovation Learning Lab (600)
- UNIV** – Brown University Center (400)
- SCI** – Alampi Science Building (700)
- WHT** – Wheaton Building (500)

## Cumberland Satellite Locations:

- CLAY** – Clay College
- CLINIC** – Clinical
- CMI** – Cumberland Mutual Insurance Co.
- FCI** – Federal Correctional Institution – Fairton
- MAIC** – Millville Arts & Innovation Center
- SCOT** – Scott Hall Stem Center - Gloucester
- BHS** – Bridgeton High School
- CTEC** – Cumberland County Technical Education Center
- MHS** – Millville High School
- SAP** – St. Augustine Prep
- VHS** – Vineland High School
- CRHS** – Cumberland Regional High School

## Prior Learning Assessment (PLA)

Prior Learning Assessments at Rowan College of South Jersey give students the ability to show what they know! Whether through taking a test, creating a portfolio, or transferring credit from a non-credit program or another college, there are many ways to gain credits towards your college degree while saving time and money. RCSJ offers more than 100 degree and certificate programs to choose from.

To learn how your experience can be changed into college credits contact Dr. Danielle Zimecki-Fennimore, Dean of Academic Assessment, at [priorlearningassessment@rcsj.edu](mailto:priorlearningassessment@rcsj.edu).

## 3+1 Program

RCSJ is proud to offer a better bachelor's degree option with Flagship Partner Rowan University through the 3+1 Program. Become 3+1 Committed! Complete three years of coursework at RCSJ and one year at Rowan University to earn your bachelor's degree for less than \$35,000! The 3+1 Program has 11 eligible majors to choose from:

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



Gloucester campus only



Cumberland campus only

For more information, contact [3plus1@rcsj.edu](mailto:3plus1@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, 2025.

TUITION	
Gloucester and Cumberland County residents	\$146.00 per credit
Out-of-County Residents <sup>1</sup>	\$174.00 per credit
Rowan Partnerships Online	\$200.00 per credit
High School Option (HSOP) <i>(no course fees for an unlimited # of courses)</i>	\$75.00 per credit
High School Dual Credit <i>(<sup>†</sup> High School courses taught by approved high school faculty.)</i>	\$50.00 per credit <sup>†</sup>
Partnership Agreements <i>(discount applies only to tuition and per credit fees)</i>	33-50% Discount
Senior Citizen Discount <i>(discount applies only to tuition, no limit on number of courses)</i>	100% Discount
Military Students	\$146.00 per credit
PER CREDIT FEES	
Admin Systems Fee	\$2.00 per credit
General Service Fee	\$47.00 per credit
Capital Construction Fee	\$2.00 per credit
First Day Complete	\$23.00 per credit
PROGRAM FEES	
<b>Nursing and Health Professions fee</b> is applied per clinical semester - <i>for students enrolled in Nursing and Health Professions.</i>	\$2,000.00
<b>Auto Tech Fee</b> is applied per semester - <i>beginning second academic term for students enrolled in Automotive Technology</i>	\$1,500.00
<b>Vet Tech Fee</b> is applied per semester - <i>beginning second academic term for students enrolled in Veterinary Technology</i>	\$1,500.00
COURSE FEES	
Fees are applied to courses according to the following categories. Please check the course description section to see which fees apply to your selected course(s).	
A. Computer Laboratory	\$25.00
B. Art (some courses), Civil Engineering, Drafting, Computer Graphic Arts	\$40.00 <sup>x</sup>
C. Automotive Technology, Science	\$95.00 <sup>x</sup>
D. Materials Fee - BIOL 215, BIOL 221	\$165.00
G. Lab Fee – 1 Contact	\$146.00 <sup>x</sup>
H. Lab Fee – 2 Contacts	\$292.00 <sup>x</sup>
I. Lab Fee – 3 Contacts	\$438.00 <sup>x</sup>
J. DMSI 120, 210, 255	\$50.00 <sup>x</sup>
K. Curriculum Review Fee	\$425.00 <sup>x</sup>
O. Online Technology Fee	\$75.00
Q. Quickbooks – ACCT 207	\$150.00 <sup>x</sup>
W. BIOL 212 (Wetlands Institute)	\$250.00 <sup>x</sup>
Y. Honors Research – BIOL 230	\$200.00 <sup>x</sup>

ADDITIONAL FEES	
Graduation Petition Fee	\$65.00
Late Payment Fee	\$30.00
Payment Plan Fee	\$40.00
Credit Card Processing Fee	2.99% per transaction
Returned Check Fee	α plus \$30.00
Stop and Reissue Check Fee	α plus \$30.00
Reissue Check Fee	α plus \$30.00
Reissue NMTI Badge Fee	α
ID card Replacement Fee	\$10.00
CPR Card Fee	\$25.00
ACT (Residual) Exam <sup>o</sup>	
LEXIS-NEXIS Annual Fee <sup>o</sup>	α
CCMA Phlebotomy, EKG and Medical Assistant Fees <sup>o</sup>	α
Nurse Entrance Test (NET) Fee <sup>o**</sup>	§
Nursing and PTA HESI Admission Assessment Exam Fee <sup>o*</sup>	§ per test
Nursing HESI Exit Exam (NURS 245) Fee <sup>o*</sup>	§ per test
PTA Exit Exam (PTAS 240) Fee	\$125.00 per test
Radiography Exit Exam (RADT 205) Fee	\$125.00 per test
Radiography Review Course (RADT 205) Fee	\$300.00 per student
Practical Nursing Exit Exam (PRAC 140) Fee	\$81.00 per student
Practical Nursing Review Course (PRAC 140) Fee	\$600 per student
CLEP/DSST Fees – Test Administration Fee Examination Fee	\$25.00 per exam §
Other Standardized Tests Fee	§
Liability Insurance (Nursing and Health Professions students only)	α
Library Membership Fee – Non-student County Residents**	\$10.00 per annum
Transcripts (processing options)	\$5.00 plus α per standard (3-5 business days)
	\$10.00 plus α per expedited (next business day)
	\$25.00 per same day
Replacement Diploma Fee	\$35.00
Portfolio Assessment Prior Learning	\$125.00
Laptop cost pass-through	\$600-\$800

REFUND SCHEDULE – APPROVED WITHDRAWALS ONLY			
<b>Full-term Course</b> <i>Prior to and during the first week of classes</i>	100% refund		
<b>Full-term Course</b> <i>After the first full week of classes</i>	0% refund		
<b>Accelerated Courses</b> <i>See Admin Procedure 6210 for the refund schedule</i>			
PRINT MANAGEMENT FEES			
<i>(in excess of free copies allotted per semester)</i>			
Black Ink	\$0.07 per page		
Color Ink	\$0.22 per page		
LIBRARY FINES			
Fines	\$0.25 per day/per item	\$10 maximum per item	
Replacement	Cost of the item, plus \$5 processing fee		
Withdrawn Item (item not being replaced)	Cost of the item		
OFFICE OF STUDENT AFFAIRS FINES			
Violation Type	First Violation	Second Violation	Third Violation
Alcohol Related	\$50 Fine	\$100 Fine	\$150 Fine
Illegal Drug Related*	\$100 Fine	\$200 Fine	
<b>Other Violations (includes obstruction/ disruption, failure to comply, and safety-related violations)</b>	\$50 Fine	\$100 Fine	\$150 Fine

\* For violations dealing with the manufacturing, sale, purchase, or distribution of illegal drugs or controlled substances, all first time violations may result in expulsion.

° Fee subject to change

× Cost pass through

§ Cost pass through plus \$30 administration

<sup>1</sup> 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.

<sup>2</sup> The NJVCC Online course fee is an estimate for informational purposes only. The actual rate is set by the Council of County Colleges.

<sup>a</sup> Processing and administering of all standardized tests are charged for the actual cost to purchase the test (approximately \$30 to \$50 per test) plus \$25 fee to administer the test.

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

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

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

(Reference Board Policy 6011)

### Payment Policy

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

A student is expected to meet, or to make arrangements to meet, all financial obligations as they occur at the College. Any student with outstanding financial obligations to the College will not be permitted to register for courses, receive transcripts or a diploma, or have transcripts sent on their 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 their 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](https://www.rcsj.edu/BusinessOffice).



## 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](https://RCSJ.edu/Behavioral)

Grace C., Social Services

### 4 course delivery methods:



In-Person



Live Online



Hybrid



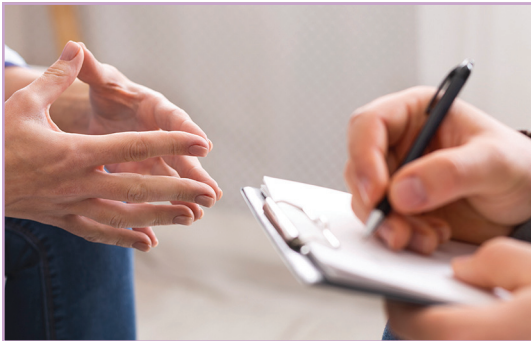
Traditional Online

## 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, clinical 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.



[SOCSALCAS; CIP Code 51.1501]

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

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

**Program Learning Outcomes**

Students who have completed the program should be able to:

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

# Alcohol and Drug Counseling, A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> HIST 103 World History I <i>or</i> HIST 104 World History II	3
<input type="checkbox"/> CSCI 110 Technology Literacy	2
	14–15

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> SPAN 101 Elementary Spanish I <i>or</i> SPAN 102 Elementary Spanish II	3
<input type="checkbox"/> SOCI 207 Social Minorities & Intergroup Relations	3
<input type="checkbox"/> SOCI 217 Human Behavior in the Social Environment I	3
<input type="checkbox"/> BIOL 107 Human Biology	4
	16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> PSYC 200 Understanding Addictive Behavior	3
<input type="checkbox"/> PSYC 230 Abnormal Psychology	3
<input type="checkbox"/> SOCI 212 Social Psychological Counseling	3
<input type="checkbox"/> SOCI 218 Human Behavior in the Social Environment II	3
	15

**Spring Semester**

<input type="checkbox"/> PSYC 205 Psychopharmacology	3
<input type="checkbox"/> SOCI 225 Addictions Counseling	3
<input type="checkbox"/> SOCI 226 Addictions Recovery: Client Education	3
<input type="checkbox"/> SOCI 227 Core Function, Global Criteria, & Case Presentations	3
<input type="checkbox"/> SOCI 222 Alcohol & Drug Field Work	3
	15

**TOTAL MINIMUM CREDITS: 60**

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



[SOCSALCCER; 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.

# Alcohol and Drug Counseling, CERT

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i>	
ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
	9-10

**Spring Semester**

<input type="checkbox"/> PSYC 200 Understanding Addictive Behavior	3
<input type="checkbox"/> SOCI 212 Social Psychological Counseling	3
<input type="checkbox"/> SOCI 217 Human Behavior in the Social Environment I	3
	9

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> CRIM 221 Criminal Psychopathology	3
<input type="checkbox"/> PSYC 205 Psychopharmacology	3
<input type="checkbox"/> SOCI 218 Human Behavior in the Social Environment II	3
<input type="checkbox"/> SOCI 222 Alcohol & Drug Field Work	3
	12

**TOTAL MINIMUM CREDITS: 30**

**Program Notes**

Fieldwork 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.

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



[ARTGPLAA; 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 should 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 & Sciences: Pre-Law Option, A.A.

### FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> MATH 101 Concepts of Mathematics	3
<input type="checkbox"/> HIST 101 Western Civilization I	3
<input type="checkbox"/> PARA 101 Introduction to Legal Studies	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
	15–16

### Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> HIST 102 Western Civilization I	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> PARA 103 Legal Research and Writing	3
<input type="checkbox"/> MATH 103 Statistics I	3
	15

### SECOND YEAR – Fall Semester

<input type="checkbox"/> ENGL ____ General Education Literature Elective	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> ____ General Education Modern Language Elective <sup>1</sup>	3
<input type="checkbox"/> ____ General Education Lab Science Elective <sup>2</sup>	4
<input type="checkbox"/> POLS 101 American Federal Government <i>or</i> POLS 103 Introduction to Political Science	3
	16

### Spring Semester

<input type="checkbox"/> PHIL 102 Ethics	3
<input type="checkbox"/> ARTS 101 Art Appreciation <i>or</i> MUSI 101 Music Appreciation	3
<input type="checkbox"/> ____ General Education Lab Science Elective <sup>2</sup>	4
<input type="checkbox"/> CRIM 201 Criminal Law <i>or</i> CRIM 209 The Administration of Justice	3
<input type="checkbox"/> EXSI 105 Healthcare Provider Emergency Response with BSL Certification	1
	14

**TOTAL MINIMUM CREDITS: 60**

#### Program Notes

<sup>1</sup> Spanish recommended.

<sup>2</sup> Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites.

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



[ARTCATAA; CIP Code 24.0101]

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

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

**Program Learning Outcomes**

Students who have completed the program should be able to:

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

# Art Therapy, A.A.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <i>or</i> CSCI 110 Technology Literacy	2–3
<input type="checkbox"/> ARTS 105 Drawing I	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> HIST 103 World History I <i>or</i> HIST 104 World History II	3
	14–16

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ARTS 103 Art History I	3
<input type="checkbox"/> CERS 101 Ceramics I	3
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> PSYC 101 General Psychology	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ARTS 121 Introduction to Art Therapy and Methods	3
<input type="checkbox"/> SOCI 207 Social Minorities & Intergroup Relations	3
<input type="checkbox"/> SOCI 217 Human Behavior in the Social Environment I	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> BIOL 107 Human Biology	4
	16

**Spring Semester**

<input type="checkbox"/> ARTS 123 Introduction to Art Therapy in Practice	3
<input type="checkbox"/> ARTS 129 Two-Dimensional Design	3
<input type="checkbox"/> SPAN 101 Elementary Spanish I (or higher)	3
<input type="checkbox"/> SOCI 212 Social Psychological Counseling	3
<input type="checkbox"/> SOCI 218 Human Behavior in the Social Environment II	3
	15

**TOTAL MINIMUM CREDITS: 80**

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



[SOCSCAAA; CIP Code 13.1011]

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

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

# Child Advocacy, A.A.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> CHAD 101 Introduction to Child Advocacy	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> CHAD 102 The Ecological System and the Developing Child	3
<input type="checkbox"/> CSCI 110 Technology Literacy	2
	14-15

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> CHAD 103 Cultural Competencies in Child Welfare	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> _____ General Education Mathematics Elective <sup>1</sup>	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> HIST 101 Western Civilization I <i>or</i> HIST 102 Western Civilization II	3
<input type="checkbox"/> BIOL 107 Human Biology	4
<input type="checkbox"/> CHAD 104 Children and Justice	3
<input type="checkbox"/> MATH 103 Statistics I	3
	16

**Spring Semester**

<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <i>or</i> CISM 102 Applications on Microcomputer	3
<input type="checkbox"/> _____ General Education Diversity Elective <sup>2</sup>	3
<input type="checkbox"/> HIST 201 United States History I <i>or</i> HIST 202 United States History II	3
<input type="checkbox"/> _____ General Education Humanities Elective <sup>3</sup>	3
<input type="checkbox"/> CHAD 105 Child Advocacy Fieldwork	3
	15

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

- <sup>1</sup>Excluding MATH 115.
- <sup>2</sup>GERG 101 or GERG 102 suggested for General Education Diversity Elective.
- <sup>3</sup>ARTS 101 suggested for General Education Humanities Elective.

**Program Learning Outcomes**

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

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



[CRIMAS; CIP Code 43.0107]

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

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

**Program Learning Outcomes**

Students who have completed the program should 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

# Criminal Justice, A.S.

**3+1 option in Law and Justice Studies**

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 101 Concepts of Mathematics	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> CRIM 101 Introduction to Criminal Justice	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
	15-16

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> SOCI 104 Social Problems	3
<input type="checkbox"/> CRIM 209 The Administration of Justice	3
<input type="checkbox"/> CRIM 201 Criminal Law	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> PHIL 102 Ethics	3
<input type="checkbox"/> PHYS 241 Forensic Science I	4
<input type="checkbox"/> CRIM 105 Introduction to Criminology	3
<input type="checkbox"/> _____ Criminal Justice Elective <sup>1</sup>	3
<input type="checkbox"/> EXSI 105 Healthcare Provider Emergency Response with BLS Certification	1
	14

**Spring Semester**

<input type="checkbox"/> CRIM 109 Constitutional Issues in Criminal Justice	3
<input type="checkbox"/> PHYS 242 Forensic Science II	4
<input type="checkbox"/> SOCI 220 Sociology of Juvenile Delinquency	3
<input type="checkbox"/> _____ Criminal Justice Elective <sup>1</sup>	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
	16

**TOTAL MINIMUM CREDITS: 60**

**Program Electives<sup>1</sup>**

- CRIM Electives
- LENF Electives

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



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

The 3+1 Program 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 Program

### THIRD YEAR — Fall Semester

<input type="checkbox"/> CRIM 301 Drugs and Crime in America	3
<input type="checkbox"/> CRIM 305 Counseling and Guidance of the Offender	3
<input type="checkbox"/> ARTS 101 Art Appreciation <b>or</b> MUSI 101 Music Appreciation	3
<input type="checkbox"/> ENGL 230 Major American Writers	3
<input type="checkbox"/> LENF 221 Principles of Criminal Investigation	3
	15

### Spring Semester

<input type="checkbox"/> CRIM 308 Theories of Crime and Criminality	3
<input type="checkbox"/> POLS 101 American Federal Government	3
<input type="checkbox"/> ____ Free Elective	3
<input type="checkbox"/> ____ Free Elective	3
<input type="checkbox"/> CRIM 253 <b>or</b> ____ Free Elective	3
	15

### STEP 1

**START AT RCSJ**  
CRIMINAL JUSTICE (A.S.)

### STEP 2

**END AT**  
**ROWAN UNIVERSITY**  
LAW AND JUSTICE STUDIES  
(B.A.)

### Program Electives

LENF 108, LENF 210, LENF 221, LENF 227, LENF 234, CRIM 117, CRIM 245, CRIM 237, CRIM 241, CRIM 261, CRIM 205, CRIM 202

**FOURTH YEAR** — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 Program 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 Program:

Stephen Sweeney, Assistant Director,  
3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

[RCSJ.edu/3plus1](http://RCSJ.edu/3plus1)



[CRIMCERT; CIP Code 43.0107]

**Certificate Program**

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

# Criminal Justice, CERT

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> CRIM 101 Introduction to Criminal Justice	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 101 Concepts of Mathematics	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> SOCI 104 Social Problems	3
	15-16

**Spring Semester**

<input type="checkbox"/> CRIM 105 Introduction to Criminology	3
<input type="checkbox"/> CRIM 201 Criminal Law	3
<input type="checkbox"/> CRIM 209 The Administration of Justice	3
<input type="checkbox"/> CRIM 113 Diversity Issues in Criminal Justice	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
	15

**TOTAL MINIMUM CREDITS: 30**

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



[CRIMEMOAS; CIP Code 43.0107]

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

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

**Program Learning Outcomes**

Students who have completed the program should 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.

**3+1 option in Disaster Preparedness & Emerg. Mgmt.**

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 101 Concepts of Mathematics	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> EMGM 101 Introduction to Emergency Management & Homeland Security	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
	15-16

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> SOCI 104 Social Problems	3
<input type="checkbox"/> EMGM 105 Planning for Emergencies	3
<input type="checkbox"/> POLS 101 American Federal Government	3
	15

**SECOND YEAR – Fall Semester**

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

**Spring Semester**

<input type="checkbox"/> GEOL 115 Introduction to Geographic Information Systems	3
<input type="checkbox"/> PHIL 102 Ethics	3
<input type="checkbox"/> PHYS 242 Forensic Science II	4
<input type="checkbox"/> CRIM 105 Introduction to Criminology	3
<input type="checkbox"/> EMGM 205 Global Catastrophes	3
	16

**TOTAL MINIMUM CREDITS: 60**

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



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 Program 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"/> EMGM 300 Critical Infrastructure	3
<input type="checkbox"/> ____ SCIL Elective	3
<input type="checkbox"/> ____ Free Elective	3
<input type="checkbox"/> ____ Free Elective	3
<input type="checkbox"/> ____ Free Elective	3
	15

### Spring Semester

<input type="checkbox"/> EMGM 309 Emergency Operations and Business Continuity	3
<input type="checkbox"/> EMGM 305 Natural and Technological Hazards: Mitigation and Response	3
<input type="checkbox"/> ECON 101 Principles of Economics I (Macro) <b>or</b> ECON 102 Principles of Economics II (Micro)	3
<input type="checkbox"/> ____ Free Elective	3
<input type="checkbox"/> ____ Free Elective	3
	15

**STEP 1**  
START AT RCSJ  
EMERGENCY MANAGEMENT  
OPTION (A.S.)

**STEP 2**  
END AT  
ROWAN UNIVERSITY  
DISASTER PREPAREDNESS  
& EMERGENCY MANAGEMENT  
(B.A.)

**FOURTH YEAR** – After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 Program 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 Program:

Stephen Sweeney, Assistant Director,  
3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

[RCSJ.edu/3plus1](http://RCSJ.edu/3plus1)



[CRIMECERT; 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.

#### **Program Contact**

Dr. William Addison  
[waddison@rcsj.edu](mailto:waddison@rcsj.edu)

# *Criminal Justice: Emergency Management, CERT*

#### **FIRST YEAR – Fall Semester**

<input type="checkbox"/> EMGM 101 Introduction to Emergency Management and Homeland Security	3
<input type="checkbox"/> EMGM 201 Incident Command: Theory and Practice	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> PHYS 241 Forensic Science I	4
<input type="checkbox"/> LENF 234 Introduction to Security	3
	16-17

#### **Spring Semester**

<input type="checkbox"/> GEOL 115 Introduction to Geographic Information Systems	3
<input type="checkbox"/> PHYS 242 Forensic Science II	4
<input type="checkbox"/> EMGM 105 Planning for Emergencies	3
<input type="checkbox"/> EMGM 205 Global Catastrophes	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> EXSI 105 Healthcare Provider Emergency Response with BSL Certification	1
	17

**TOTAL MINIMUM CREDITS: 33**

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



[CRIMCORAS; CIP Code 43.0107]

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

Law enforcement and corrections are among the fastest growing career fields in America, according to the U.S. Department of Labor. A range of job opportunities awaits graduates as America becomes a more security-conscious society. This program encourages comprehensive understanding of the nature of crime and the goals of the criminal justice system. Students are introduced to organizations, occupations and regulations that govern the criminal justice system. The program prepares students to enter a specific criminal justice field or continue their studies at a four-year college/university. Two themes are critical throughout the program: leadership and ethics. This program is designed for students who are interested in law enforcement and corrections or want to continue their studies at a four-year college/university. Students are introduced to organizations, occupations and regulations that govern the criminal justice system and a range of job opportunities that awaits graduates as America becomes a more security-conscious society.

**Program Contact**

Dr. William Addison  
waddison@rcsj.edu

# Criminal Justice: Corrections, A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> CRIM 101 Introduction to Criminal Justice	3
<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 101 Concepts of Mathematics	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> PSYC 101 General Psychology	3
	15-16

**Spring Semester**

<input type="checkbox"/> CRIM 105 Introduction to Criminology	3
<input type="checkbox"/> CRIM 201 Criminal Law	3
<input type="checkbox"/> CRIM 209 The Administration of Justice	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> CRIM 217 Institutional Treatment of the Offender	3
<input type="checkbox"/> LENF 227 Introduction to Corrections	3
<input type="checkbox"/> PHYS 241 Forensic Science I	4
<input type="checkbox"/> EXSI 105 Healthcare Provider Emergency Response with BLS Certification	1
<input type="checkbox"/> MATH 103 Statistics I	3
	14

**Spring Semester**

<input type="checkbox"/> CRIM 225 Correct Counseling and Interview	3
<input type="checkbox"/> CRIM 109 Constitutional Issues in Criminal Justice	3
<input type="checkbox"/> PHYS 242 Forensic Science II	4
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> PHIL 102 Ethics	3
	16

**TOTAL MINIMUM CREDITS: 60**

**Program Learning Outcomes**

Students who have completed the program should be able to:

- Illustrate cause and effect relationships within the continuum and how they impact, both positively and negatively, the outcomes desired by the community as a whole
- Identify the role of each component of the US criminal justice system
- Demonstrate knowledge of the US Constitution and the constitutional implication of the criminal procedure in the US as applied to arrest, use of force, and search and seizure
- Identify the moral, ethical and legal obligations of criminal justice professionals,
- Recognize the roles of various criminal justice professions
- Locate, retrieve and critically evaluate information and information sources related to the profession

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



[CRIMFTOAS; CIP Code 43.0107]

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

Law enforcement and corrections are among the fastest growing career fields in America, according to the U.S. Department of Labor. A range of job opportunities awaits graduates as America becomes a more security-conscious society. This program encourages comprehensive understanding of the nature of crime and the goals of the criminal justice system. Students are introduced to organizations, occupations and regulations that govern the criminal justice system.

The program prepares students to enter a specific criminal justice field or continue their studies at a four-year college/university. Two themes are critical throughout the program: leadership and ethics.

#### Program Learning Outcomes

Students who have completed the program should be able to:

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

#### Program Contact

Dr. William Addison  
waddison@rcsj.edu

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

# Criminal Justice: Forensics & Technology, A.S.

## FIRST YEAR – Fall Semester

<input type="checkbox"/> CRIM 101 Introduction to Criminal Justice	3
<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <i>or</i> CISM 102 Applications on Microcomputer	3
<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
	15-16

## Spring Semester

<input type="checkbox"/> CRIM 209 The Administration of Justice	3
<input type="checkbox"/> CRIM 201 Criminal Law	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 101 Concepts of Mathematics	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
	15

## SECOND YEAR – Fall Semester

<input type="checkbox"/> CRIM 117 Crime on the Internet <i>or</i> CYBR 241 Computer Forensics	3
<input type="checkbox"/> CRIM 105 Introduction to Criminology	3
<input type="checkbox"/> PHIL 102 Ethics	3
<input type="checkbox"/> EXSI 105 Healthcare Provider Emergency Response with BLS Certification	1
<input type="checkbox"/> PHYS 241 Forensic Science I	4
	14

## Spring Semester

<input type="checkbox"/> CRIM 249 Criminal Justice Field Work	3
<input type="checkbox"/> CRIM 229 Crime Analysis & Mapping	3
<input type="checkbox"/> CRIM 109 Constitutional Issues in Criminal Justice	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> PHYS 242 Forensic Science II	4
	16

**TOTAL MINIMUM CREDITS: 60**



[CRIMJSAS; CIP Code 43.0107]

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

Law enforcement and corrections are among the fastest growing career fields in America, according to the U.S. Department of Labor. A range of job opportunities awaits graduates as America becomes a more security-conscious society. This program encourages comprehensive understanding of the nature of crime and the goals of the criminal justice system. Students are introduced to organizations, occupations and regulations that govern the criminal justice system. The program prepares students to enter a specific criminal justice field or continue their studies at a four-year college/university. Two themes are critical throughout the program: leadership and ethics.

**Program Learning Outcomes**

- Students who have completed the program should be able to:
- Illustrate cause and effect relationships within the continuum and how they impact, both positively and negatively, the outcomes desired by the community as a whole
  - Identify the role of each component of the US criminal justice system
  - Demonstrate knowledge of the US Constitution and the constitutional implication of the criminal procedure in the US as applied to arrest, use of force, and search and seizure
  - Identify the moral, ethical and legal obligations of criminal justice professionals.
  - Recognize the roles of various criminal justice professions
  - Locate, retrieve and critically evaluate information and information sources related to the profession

**Program Contact**  
Dr. William Addison  
waddison@rcsj.edu

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

# Justice Studies, A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> CRIM 209 The Administration of Justice	3
<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <i>or</i> CISM 102 Applications on the Microcomputer	3
<input type="checkbox"/> CSCI 110 Technology Literacy	2
<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> PCAD 101 Public Administration	3
	14-15

**Spring Semester**

<input type="checkbox"/> CRIM 105 Introduction to Criminology	3
<input type="checkbox"/> CRIM 201 Criminal Law	3
<input type="checkbox"/> CRIM 113 Diversity Issues in Criminal Justice	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> CYBR 241 Computer Forensics <i>or</i> PSYC 230 Abnormal Psychology	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ____ Criminal Justice Elective	3
<input type="checkbox"/> ____ General Education Diversity Elective	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective (excluding MATH 115)	3
	15

**Spring Semester**

<input type="checkbox"/> CRIM 249 Criminal Justice Fieldwork	3
<input type="checkbox"/> HIST ____ General Education History Elective	3
<input type="checkbox"/> POLS 101 American Federal Government <i>or</i> POLS 203 State & Local Government	3
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ General Education Science Elective with Lab	4
	16

**TOTAL MINIMUM CREDITS: 60**



[CRIMAAS; 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 should 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

**Program Contact**

Dr. William Addison  
waddison@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 Enforcement, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> CRIM 101 Introduction to Criminal Justice	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology <i>or</i> SOCI 102 Sociology of the Family <i>or</i> SOCI 104 Social Problems	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
	15–16

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> LENF 108 Police and Personnel Management	3
<input type="checkbox"/> LENF 102 Police Organization and Administration	3
<input type="checkbox"/> CRIM 201 Criminal Law	3
<input type="checkbox"/> CRIM 209 The Administration of Justice	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> PHYS 241 Forensic Science I	4
<input type="checkbox"/> CRIM 105 Introduction to Criminology	3
<input type="checkbox"/> LENF 221 Principles of Criminal Investigation	3
<input type="checkbox"/> ____ ____ Law Enforcement Elective <sup>1</sup>	3
<input type="checkbox"/> MATH 101 Concepts of Mathematics	3
	16

**Spring Semester**

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

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course prerequisites. Students must complete all Associate in Applied Science (A.A.S.) required courses (57 credits) plus three credits selected from the program electives. See advisor for recommendations.

**Program Electives<sup>1</sup>**

- LENF 234 Introduction to Security
- CRIM 117 Crime on the Internet
- CRIM 109 Constitutional Issues in Criminal Justice
- CRIM 245 Internship in Law Enforcement/Criminal Justice
- CRIM 237 Community Policing & Crime Analysis
- CRIM 241 Violent Crime in America
- CRIM 261 Organized Crime in America
- CRIM 205 Domestic and International Terrorism



[PLGLAAS; CIP Code 22.0302]

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

The goal of the Paralegal program is to provide students with specialized legal training enabling them to gather and analyze facts relevant to legal disputes, perform legal research, assist attorneys in drafting legal documents and prepare witnesses and evidence for presentation at legal proceedings. Paralegals may not practice law. They may not provide legal services directly.

**Program Learning Outcomes**

Students who have completed the program should be able to:

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

**Program Contact**

Lucy McClain, Esq  
lmcclain@rcsj.edu

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# Law and Paralegal Studies, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> MATH ____ General Education Mathematics Elective	3
<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> PARA 101 Introduction to Legal Studies	3
<input type="checkbox"/> PARA 125 Business Organizations for Paralegals	3
	16–17

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> PARA 102 Litigation and Civil Procedure	3
<input type="checkbox"/> POLS 101 American Federal Government <sup>1</sup>	3
<input type="checkbox"/> CISM 119 Spreadsheets – Excel	4
<input type="checkbox"/> PARA 103 Legal Research and Writing	3
	16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> PARA 104 Torts	3
<input type="checkbox"/> PARA 212 Paralegal Skills and Office Practices	3
<input type="checkbox"/> PARA ____ Paralegal Elective <sup>2</sup>	3
<input type="checkbox"/> PHYS 241 Forensic Science I	4
	13

**Spring Semester**

<input type="checkbox"/> PARA 209 Legal Assistant Practicum	3
<input type="checkbox"/> PARA 201 Criminal Law and Procedure	3
<input type="checkbox"/> PARA 204 Technology in the Law Firm	3
<input type="checkbox"/> PARA 205 Wills, Trusts, and Estate Planning	3
<input type="checkbox"/> ____ ____ Humanities General Education Elective	3
	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 are 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 (PARA) course taken prior to ABA approval (August 1998) must be taken again to qualify for the issuance of a Paralegal Program degree or certificate.

<sup>1</sup> POLS 103 Introduction to Political Science may be substituted.

**Program Electives**

<sup>2</sup> PARA electives include: PARA 110 Contemporary Issues in Paralegal Studies, PARA 203 Bankruptcy, PARA 207 Family/Domestic Law, PARA 210 Property Transactions.



[PLGLCERT; CIP Code 22.0302]

### 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 Contact

Lucy McClain, Esq  
[lmcclain@rcsj.edu](mailto:lmcclain@rcsj.edu)

## Paralegal, CERT

### FIRST YEAR

<input type="checkbox"/> CISM 101 Introduction to Computers <i>or</i> CISM 119 Spreadsheets - Excel	4
<input type="checkbox"/> PARA 101 Introduction to Legal Studies	3
<input type="checkbox"/> PARA 102 Litigation and Civil Procedure	3
<input type="checkbox"/> PARA 103 Legal Research and Writing	3
<input type="checkbox"/> PARA 125 Business Organizations for Paralegals	3
<input type="checkbox"/> PARA 201 Criminal Law and Procedure	3
<input type="checkbox"/> PARA 204 Technology in the Law Firm	3
<input type="checkbox"/> PARA 209 Legal Assistant Practicum	3
<input type="checkbox"/> PARA 212 Paralegal Skills and Office Practices	3
<input type="checkbox"/> PARA ____ Paralegal Elective <sup>1</sup>	3
<input type="checkbox"/> PARA ____ Paralegal Elective <sup>1</sup>	3

**TOTAL MINIMUM CREDITS: 30**

### 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 are 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.

### Program Electives<sup>1</sup>

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

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[PSYCAA; 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 should 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**

Dr. William Leonard  
[wleonard@rcsj.edu](mailto:wleonard@rcsj.edu)

Dr. Karrol Jordan  
[Kjordan5@rcsj.edu](mailto:Kjordan5@rcsj.edu)

# Psychology, A.A.

## 3+1 option in Psychology

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective	3
<input type="checkbox"/> HIST ____ General Education History Elective	3
<input type="checkbox"/> ARTS 101 Art Appreciation <i>or</i> MUSI 101 Music Appreciation	3
<input type="checkbox"/> FRSH 101 College and Career Planning <i>or</i> ____ ____ Health and Physical Education Elective	1
	16-17

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> PSYC 211 Psychology of Human Development	3
<input type="checkbox"/> HIST ____ General Education History Elective	3
<input type="checkbox"/> PSYC 212 Psychology of the Adolescent <i>or</i> PSYC 102 Child Psychology	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> BIOL 107 Human Biology	4
<input type="checkbox"/> ENGL ____ General Education Literature Elective	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> PSYC ____ Program Elective – Psychology <sup>1</sup>	3
<input type="checkbox"/> PSYC ____ Program Elective – Psychology <sup>1</sup>	3
	16

**Spring Semester**

<input type="checkbox"/> PHIL 101 Introduction to Philosophy	3
<input type="checkbox"/> PSYC ____ Program Elective – Psychology <sup>1</sup>	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ ____ General Education Lab Science Elective	4
	13

**TOTAL MINIMUM CREDITS: 60**

**Program Electives<sup>1</sup>**

- PSYC 200 Understanding Addictive Behavior
- PSYC 203 Educational Psychology
- PSYC 102 Child Psychology
- PSYC 205 Psychopharmacology
- PSYC 230 Abnormal Psychology
- PSYC 215 Psychology of Aging
- PSYC 231 Abuse and Violence in the Family
- PSYC 240 Social Psychology

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



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

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

## Psychology 3+1 Program

### THIRD YEAR — Fall Semester

<input type="checkbox"/> PSYC 305 Psychology of Scientific Thinking	3
<input type="checkbox"/> PSYC 306 Statistics in Psychology	3
<input type="checkbox"/> PSYC 240 Social Psychology	3
<input type="checkbox"/> RELG 102 World Religions	3
<input type="checkbox"/> _____ Free Elective	3
	15

### Spring Semester

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

### STEP 1

**START AT RCSJ**  
PSYCHOLOGY (A.A.)

### STEP 2

**END AT**  
**ROWAN UNIVERSITY**  
PSYCHOLOGY (B.A.)

**FOURTH YEAR** — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 Program 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 Program:

Stephen Sweeney, Assistant Director,  
3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

[RCSJ.edu/3plus1](http://RCSJ.edu/3plus1)



[SOCSAS; CIP Code 44.0701]

**Associate in Science (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 Outcomes**

Students who have completed the program should be able to:

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

**Program Contact**

John Wojtowicz, LCSW  
jwojtowi@rcsj.edu

# Social Services, A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> HIST 103 World History I <b>or</b> HIST 104 World History II	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> _____ General Education Foreign Language Elective	3
	16-17

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> SOCI 104 Social Problems	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> BIOL 107 Human Biology	4
<input type="checkbox"/> PCAD 101 Public Administration	3
<input type="checkbox"/> SOCI 207 Social Minorities & Intergroup Relations	3
<input type="checkbox"/> SOCI 217 Human Behavior in the Social Environment I	3
<input type="checkbox"/> SOCI 221 Social Service Field Work I	3
	16

**Spring Semester**

<input type="checkbox"/> SOCI 212 Social Psychological Counseling	3
<input type="checkbox"/> SOCI 218 Human Behavior in the Social Environment II	3
<input type="checkbox"/> SOCI 160 Introduction to Social Work	3
<input type="checkbox"/> SOCI 231 Social Service Field Work II	3
<input type="checkbox"/> _____ Social Service Program Elective <sup>1</sup> <b>or</b> EXSI 105 Healthcare Provider Emergency Response with BLS Certification	1-3
	13-15

**TOTAL MINIMUM CREDITS: 60**

**Program Electives<sup>1</sup>**

- PSYC 200 Understanding Addictive Behavior
- PSYC 230 Abnormal Psychology
- SOCI 102 Sociology of the Family
- SOCI 215 Death and Dying
- SOCI 205 Introduction to Gerontology

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



## DIVISION OF Business Studies

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

[RCSJ.edu/Business](https://RCSJ.edu/Business)

*Jasmine K., Accounting*



### 4 course delivery methods:



*In-Person*



*Live Online*



*Hybrid*



*Traditional Online*

## Find Your Program

From Finance to Digital Marketing, Business Administration to Computer Information Systems, Entrepreneurship to Game and Interactive Design — **Rowan College of South Jersey** offers the perfect portfolio of credentials, hands-on experience, and industry networking to impress at any interview. The Division of Business Studies offers exclusive benefits through its premier partnership with Rastelli Foods Group and is home to the Alpha Beta Gamma national business honor society.

## Find Your Opportunity

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



# Accounting, A.A.S.

[ACCTAAS; 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 should 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, Accounting  
[dmorgant@rcsj.edu](mailto:dmorgant@rcsj.edu)

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

### FIRST YEAR – Fall Semester

<input type="checkbox"/> BUSN 101 Introduction to Business	3
<input type="checkbox"/> ACCT 101 Accounting I	4
<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 105 Intermediate Algebra	4
	18-19

### Spring Semester

<input type="checkbox"/> ACCT 102 Accounting II	4
<input type="checkbox"/> CISM 119 Spreadsheets – Excel	4
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> COMM 104 Business Communication	3
	17

### SECOND YEAR – Fall Semester

<input type="checkbox"/> BUSN 105 Personal and Professional Branding <b>or</b> _____ Health and Physical Education Elective	1-3
<input type="checkbox"/> ACCT 221 Managerial Accounting	3
<input type="checkbox"/> BUSN 109 Business Law I	3
<input type="checkbox"/> ACCT 231 Federal Income Taxes	3
<input type="checkbox"/> ECON _____ General Education Economics Elective	3
	13-15

### Spring Semester

<input type="checkbox"/> BUSN 110 Business Law II	3
<input type="checkbox"/> ACCT 207 Accounting Information Systems	3
<input type="checkbox"/> CISM 207 Management Information Systems	3
<input type="checkbox"/> ISCC 211 Internship Career Connections	3
	12

**TOTAL MINIMUM CREDITS: 60**



# Accounting, COA

[ACCTCOA; 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, Accounting  
[dmorgant@rcsj.edu](mailto:dmorgant@rcsj.edu)

### FIRST YEAR – Fall Semester

<input type="checkbox"/> ACCT 101 Accounting I	4
<input type="checkbox"/> ACCT 102 Accounting II	4
<input type="checkbox"/> CISM 119 Spreadsheets – Excel	4
<input type="checkbox"/> ACCT 207 Accounting Information Systems <b>or</b> ACCT 231 Federal Income Taxes <b>or</b> ACCT 221 Managerial Accounting	3
<input type="checkbox"/> BUSN 105 Personal and Professional Branding	1
	16

**TOTAL MINIMUM CREDITS: 16**

### Program Notes

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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

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



# Business Administration, A.S.

**3+1 option in Bus. Adm.: Global Bus. & Leadership**

[BUSNAS; 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 should 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 operate,
- Analyze ethical conduct and diversity in a global business environment

**Program Contact**

Stacey L. Callaway, JD, MBA,  
Associate Professor and Coordinator,  
Business Administration and Finance  
scallawa@rcsj.edu

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> ACCT 101 Accounting I	4
<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> MATH 126 Applied Calculus	4
	15-16

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> ACCT 102 Accounting II	4
	13

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> BUSN 200 Principles of Management <sup>1</sup> <i>or</i> PSYC 101 General Psychology <i>or</i> SOC1 101 Introduction to Sociology <i>or</i> ACCT 221 Managerial Accounting	3
<input type="checkbox"/> ECON 101 Principles of Economics (Macro)	3
<input type="checkbox"/> BUSN 250 Principles of Marketing	3
<input type="checkbox"/> BUSN 109 Business Law I	3
	15

**Spring Semester**

<input type="checkbox"/> CISM 207 Management Information Systems	3
<input type="checkbox"/> CISM 114 Fundamentals of Programming <sup>2</sup> <i>or</i> _____ General Education Elective	4
<input type="checkbox"/> ECON 102 Principles of Economics (Micro)	3
<input type="checkbox"/> BUSN 110 Business Law II	3
<input type="checkbox"/> _____ General Education Lab Science Elective	4
	17

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

<sup>1</sup> 3+1 students should take PSYC 101. If transferring to Rowan University, choose PSYC 101 or SOC1 101. If transferring to Rutgers–Camden, choose ACCT 221.

<sup>2</sup> 3+1 students and those planning to major in Management Information Systems at Rowan University should choose CISM 114.

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



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

The 3+1 Program 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 Program

### THIRD YEAR — Fall Semester

<input type="checkbox"/> BUSN 310 Business Logistics	3
<input type="checkbox"/> BUSN 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
	15

### Spring Semester

<input type="checkbox"/> BUSN 304 Issues in Business: Directed Research	3
<input type="checkbox"/> BUSN 308 Applied Human Resource Management	3
<input type="checkbox"/> ____ World Language 102 Level Elective	3
<input type="checkbox"/> ISCC 311 Internship Career Connections (Cooperative Education)	3
<input type="checkbox"/> ENGL ____ Literature Course Elective	3
	15

### STEP 1

**START AT RCSJ**  
BUSINESS  
ADMINISTRATION (A.S.)

### STEP 2

**END AT  
ROWAN UNIVERSITY**  
BUSINESS ADMINISTRATION:  
GLOBAL BUSINESS &  
LEADERSHIP (B.S.)  
**OR**  
DATA ANALYTICS (B.S.)  
PAGE 50

**FOURTH YEAR** — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 Program 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 Program:

Stephen Sweeney, Assistant Director,  
3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

#### About the program:

Stacey L. Callaway, JD, MBA,  
Associate Professor and Coordinator,  
Business Administration and Finance,  
[scallawa@rcsj.edu](mailto:scallawa@rcsj.edu)

[RCSJ.edu/3plus1](http://RCSJ.edu/3plus1)



# Business Administration, CERT

[BUSNCERT; CIP Code 52.0201]

## Certificate Program

The Certificate in Business Administration provides students with a strong foundation in accounting, management, marketing, business law, and economics, preparing them for entry-level business roles or further academic study. Emphasizing critical thinking, problem solving, and ethical decision-making, the program develops business communication, leadership, and analytical skills. Students will learn to analyze financial data, apply management strategies, utilize business technology, and evaluate economic and legal business impacts. Graduates will be equipped for careers in corporate, entrepreneurial, and administrative settings or to pursue advanced business education.

## Program Learning Outcomes

Students who have completed the program should be able to:

- Apply fundamental accounting, management, marketing, business law, and economic principles to analyze business problems and support decision-making
- Use computer applications, statistical methods, and financial analysis tools to interpret business data and improve operational efficiency
- Develop professional written and oral communication skills to convey business concepts clearly and persuasively to diverse stakeholders
- Build foundational competencies for entry-level business roles and develop skills for continued professional growth or further academic study

## Program Contact

Stacey L. Callaway, JD, MBA,  
Associate Professor and Coordinator,  
Business Administration and Finance  
[scallawa@rcsj.edu](mailto:scallawa@rcsj.edu)

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

## FIRST YEAR

<input type="checkbox"/> ACCT 101 Accounting I	4
<input type="checkbox"/> ACCT 102 Accounting II	4
<input type="checkbox"/> BUSN 109 Business Law I	3
<input type="checkbox"/> BUSN 200 Principles of Management	3
<input type="checkbox"/> BUSN 250 Principles of Marketing	3
<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> ECON 102 Principles of Economics (Micro)	3
<input type="checkbox"/> ENGL 101 English Composition I	3
<input type="checkbox"/> MATH 103 Statistics I	3
	30

**TOTAL MINIMUM CREDITS: 30**



[BUSMAAS; CIP Code 52.0201]

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

This program prepares students for entry-level management positions with a concentration in marketing. Business programs focus on the education and skills needed in today's global business environment. Practical courses coupled with general education offerings enhance development of critical thinking, communication and problem-solving skills, as well as adaptability and team work.

**Program Learning Outcomes**

Students who have completed the program should be able to:

- Demonstrate mastery of financial and managerial accounting concepts by preparing balance sheets, income statements, statements of cash flows, and budgets by performing costs, volume and profit analysis.
- Prepare and present effective oral and written business presentations.
- Evaluate key elements of a Strategic Plan and make recommendations for improvements.
- Work effectively in both leadership and support roles as part of diverse teams to achieve a variety of business-related tasks.
- Prepare an effective promotional campaign for an existing product, service or local business.
- Locate, retrieve and critically evaluate information and information sources.
- Discuss fundamental marketing practices and concepts and recognize a range of marketing, sales and public relations techniques.

**Program Contact**

Stacey L. Callaway, JD, MBA,  
Associate Professor and Coordinator,  
Business Administration and Finance  
[scallawa@rcsj.edu](mailto:scallawa@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 Management, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ACCT 101 Accounting I	4
<input type="checkbox"/> BUSN 101 Introduction to Business	3
<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <b>or</b> CISM 102 Applications on the Microcomputer	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> ____ ____ General Education Diversity Elective	3
	16-17

**Spring Semester**

<input type="checkbox"/> ACCT 102 Accounting II	4
<input type="checkbox"/> BUSN 200 Introduction to Management	3
<input type="checkbox"/> BUSN 109 Business Law I	3
<input type="checkbox"/> ENGL 102 English Composition II <b>or</b> COMM 103 Technical Writing <b>or</b> SPEH 203 Effective Speech	3
<input type="checkbox"/> PSYC 101 General Psychology	3
	16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> BUSN 250 Principles of Marketing	3
<input type="checkbox"/> FINC 203 Corporate Finance	3
<input type="checkbox"/> ECON 101 Principles of Economics (Macro)	3
<input type="checkbox"/> ____ ____ General Education Humanities Elective	3
<input type="checkbox"/> MATH 116 Principles of Mathematics or higher (Excluding MATH 115)	3-4
	15-16

**Spring Semester**

<input type="checkbox"/> BUSN 238 Principles of Advertising	3
<input type="checkbox"/> BUSN 242 Principles of Selling	3
<input type="checkbox"/> BUSN 226 Introduction to International Business	3
<input type="checkbox"/> BUSN 234 Strategic Management	4
	13

**TOTAL MINIMUM CREDITS: 60**



# Business Software Tools, COA

[BUSSCOA; 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, Associate Professor and Coordinator, Computer Information Systems and Digital Marketing  
[iskot@rcsj.edu](mailto:iskot@rcsj.edu)

### FIRST YEAR – Fall Semester

<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> CISM 119 Spreadsheets – Excel	4
<input type="checkbox"/> CISM 210 Relational Databases	4
<input type="checkbox"/> ACCT 207 Accounting Information Systems <b>or</b> CISM ____ CISM Elective	3
<input type="checkbox"/> BUSN 105 Personal and Professional Branding	1
	16

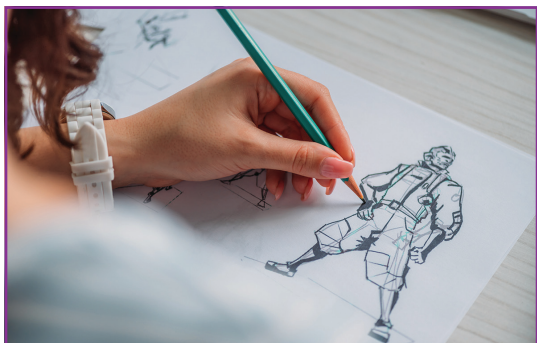
**TOTAL MINIMUM CREDITS: 16**

### Program Notes

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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

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



[CGAGAAS; 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 should 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 Malincono, Associate Professor and Coordinator, Computer Graphic Arts  
[mmalinco@rcsj.edu](mailto:mmalinco@rcsj.edu)

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

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> COGA 103 Design, Type, and Color	3
<input type="checkbox"/> COGA 115 Foundations of Computer Graphic Arts	3
<input type="checkbox"/> ARTS 117 Introduction to Digital Photography	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 101 Concepts of Mathematics	3
	15-16

**Spring Semester**

<input type="checkbox"/> COGA 118 Introduction to Animation	3
<input type="checkbox"/> COGA 130 Video and Audio Editing	3
<input type="checkbox"/> COGA 121 Introduction to Electronic Publishing and Typography	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> _____ General Education Elective	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> COGA 212 Screen Graphics	3
<input type="checkbox"/> COGA 215 Electronic Illustration I	3
<input type="checkbox"/> COGA 217 Electronic Image Processing	3
<input type="checkbox"/> _____ General Education Social Science Elective	3
<input type="checkbox"/> COMM 104 Business Communication <b>or</b> ISCC 211 Internship Career Connections	3
	15

**Spring Semester**

<input type="checkbox"/> ARTS 217 Intermediate Digital Photography	3
<input type="checkbox"/> COGA 219 Web Design	3
<input type="checkbox"/> COGA 218 Game and Interactive Authoring	3
<input type="checkbox"/> _____ General Education Elective	3
<input type="checkbox"/> _____ General Education Elective	3
	15

**TOTAL MINIMUM 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](http://RCSJ.edu/Laptop). In addition, students taking CGA courses will be provided the Adobe Creative Cloud software via the student's RCSJ email. This will allow students to install the software onto their personal computers.

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



[CGAGCOA; 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 Learning Outcomes**

Students who have completed the program should 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 and Coordinator, Computer Graphic Arts  
[mmalinco@rcsj.edu](mailto: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, COA

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> COGA 103 Design, Type, and Color	3
<input type="checkbox"/> COGA 118 Introduction to Animation	3
<input type="checkbox"/> COGA 130 Video and Audio Editing	3
<input type="checkbox"/> COGA 212 Screen Graphics	3
<input type="checkbox"/> COGA 218 Game and Interactive Authoring	3
<input type="checkbox"/> COGA 219 Web Design	3
	18

**TOTAL MINIMUM CREDITS: 18**

**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 student's RCSJ email. This will allow students to install the software onto their personal computers.

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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



[CGAPAAS; 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 should 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 and Coordinator, Computer Graphic Arts  
mmalinco@rcsj.edu

# Computer Graphic Arts: Print Design, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> COGA 103 Design, Type, and Color	3
<input type="checkbox"/> COGA 115 Foundations of Computer Graphic Arts	3
<input type="checkbox"/> ARTS 105 Drawing I	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 101 Concepts of Mathematics	3
	15-16

**Spring Semester**

<input type="checkbox"/> ARTS 117 Introduction to Digital Photography	3
<input type="checkbox"/> COGA 130 Video and Audio Editing	3
<input type="checkbox"/> COGA 121 Introduction to Electronic Publishing and Typography	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ____ General Education Elective	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> COGA 220 Advanced Electronic Publishing	3
<input type="checkbox"/> COGA 215 Electronic Illustration I	3
<input type="checkbox"/> COGA 217 Electronic Image Processing	3
<input type="checkbox"/> ____ General Education Social Science Elective	3
<input type="checkbox"/> COMM 104 Business Communication <b>or</b> ISCC 211 Internship Career Connections	3
	15

**Spring Semester**

<input type="checkbox"/> COGA 219 Web Design	3
<input type="checkbox"/> ARTS 103 Art History I	3
<input type="checkbox"/> ____ General Education Elective	3
<input type="checkbox"/> ____ General Education Elective	3
<input type="checkbox"/> ARTS 217 Intermediate Digital Photography	3
	15

**TOTAL MINIMUM 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](http://RCSJ.edu/Laptop). In addition, students taking CGA courses will be provided the Adobe Creative Cloud software via the student's RCSJ email. This will allow students to install the software onto their personal computers.

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



# Computer Graphic Arts: Print Design, COA

[CGAPCOA; 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 Learning Outcomes

Students who have completed the program should 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 and Coordinator, Computer Graphic Arts  
[mmalinco@rcsj.edu](mailto:mmalinco@rcsj.edu)

### FIRST YEAR – Fall Semester

<input type="checkbox"/> COGA 103 Design, Type, and Color	3
<input type="checkbox"/> COGA 121 Introduction to Electronic Publishing and Typography	3
<input type="checkbox"/> COGA 220 Advanced Electronic Publishing	3
<input type="checkbox"/> COGA 215 Electronic Illustration I	3
<input type="checkbox"/> COGA 217 Electronic Image Processing	3
<input type="checkbox"/> COGA 219 Web Design	3
	18

**TOTAL MINIMUM CREDITS: 18**

### 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](http://RCSJ.edu/Laptop). In addition, students taking CGA courses will be provided the Adobe Creative Cloud software via the student's RCSJ email. This will allow students to install the software onto their personal computers.

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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

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



[CISYAS; 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 should 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, Associate Professor and Coordinator, Computer Information Systems and Digital Marketing  
 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.

## 3+1 option in Data Analytics

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> CISM 151 Web Development-HTML/CSS	4
	14-15

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> CISM 114 Fundamentals of Programming	4
<input type="checkbox"/> CISM 119 Spreadsheets – Excel	4
<input type="checkbox"/> CISM 152 Advanced Web Development	3
	14

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ECON 101 Principles of Economics (Macro)	3
<input type="checkbox"/> CISM 210 Relational Databases	4
<input type="checkbox"/> CISM 251 Web Programming	3
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ Business Elective <sup>2</sup>	3
	16

**Spring Semester**

<input type="checkbox"/> ECON 102 Principles of Economics (Micro)	3
<input type="checkbox"/> CISM 207 Management Information Systems	3
<input type="checkbox"/> CISM 264 Database Applications Development	3
<input type="checkbox"/> ____ Program Elective <sup>1</sup>	3
<input type="checkbox"/> ____ General Education Lab Science Elective	4
	16

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

BUSN 200 is recommended for transfer to Wilmington University.  
 CISM 200 is recommended for transfer to Wilmington University.

**Program Electives<sup>1</sup>**

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

**Business Elective Bank<sup>2</sup>**

- ACCT 101 Accounting I
- BUSN 109 Business Law I
- ACCT 207 Accounting Information Systems
- BUSN 250 Principles of Marketing
- BUSN 258 Social Media Marketing and Web Analytics
- BUSN 200 Principles of Management



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

The 3+1 Program 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 Program

### THIRD YEAR — Fall Semester

<input type="checkbox"/> CSCI 125 Introduction to Data Science	3
<input type="checkbox"/> CISM 300 Applied Database Technologies	3
<input type="checkbox"/> CSCI 205 Programming in C++	4
<input type="checkbox"/> _____ Elective Artistic Literacy	3
<input type="checkbox"/> CISM 200 Principles of Information Security	3
	16

### Spring Semester

<input type="checkbox"/> SPEH 101 Oral Communications	3
<input type="checkbox"/> CSCI 225 Programming in R	2
<input type="checkbox"/> MAT 203 Statistics II	3
<input type="checkbox"/> _____ Elective Global Literacy	3
<input type="checkbox"/> DATA 301 Research Methods & Ethical Issues in Data Analysis	3
	14

### STEP 1

**START AT RCSJ**  
COMPUTER INFORMATION SYSTEMS (A.S.)

### STEP 2

**END AT ROWAN UNIVERSITY**  
DATA ANALYTICS (B.S.)

**FOURTH YEAR** — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 Program 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 Program:

Stephen Sweeney, Assistant Director, 3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

#### About the program:

Karen Durkin, Assistant Dean, STEM Division | Assistant Professor, Mathematics, [kdurkin@rcsj.edu](mailto:kdurkin@rcsj.edu)

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



[DIMKAAS; 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 should 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, Associate Professor and Coordinator, Computer Information Systems and Digital Marketing  
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"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> BUSN 101 Introduction to Business	3
<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> CISM 151 Web Development-HTML/CSS	4
<input type="checkbox"/> MATH 103 Statistics I	3
	17-18

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> BUSN 250 Principles of Marketing	3
<input type="checkbox"/> CISM 152 Advanced Web Development	3
<input type="checkbox"/> _____ Program Elective <sup>1</sup>	3-4
<input type="checkbox"/> _____ General Education Elective	3
	15-16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ACCT 101 Accounting I	4
<input type="checkbox"/> BUSN 258 Social Media Marketing and Web Analytics	3
<input type="checkbox"/> BUSN 200 Principles of Management	3
<input type="checkbox"/> COMM 104 Business Communication <i>or</i> COMM 210 Communication Ethics, A.I., & Media Analysis	3
	16

**Spring Semester**

<input type="checkbox"/> _____ General Education Humanities <i>or</i> Social Science Elective	3
<input type="checkbox"/> CISM 207 Management Information Systems	3
<input type="checkbox"/> BUSN 238 Principles of Advertising	3
<input type="checkbox"/> ISCC 211 Internship Career Connections	3
	12

**TOTAL MINIMUM CREDITS: 60**

**Program Electives<sup>1</sup>**

- COGA 103 Design, Type, and Color
- ACCT 102 Accounting II
- BUSN 109 Business Law I
- BUSN 246 Business Ethics
- BUSN 262 Organizational Behavior
- COGA 115 Foundations of Computer Graphic Arts
- CISM 119 Spreadsheets - Excel
- COMM 101 Introduction to Mass Media
- CSCI 125 Intro to Data Science



# Digital Marketing, COA

[DIMKCOA 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, Associate Professor and Coordinator, Computer Information Systems and Digital Marketing  
[iskot@rcsj.edu](mailto:iskot@rcsj.edu)

### FIRST YEAR – Fall Semester

<input type="checkbox"/> BUSN 250 Principles of Marketing	3
<input type="checkbox"/> BUSN 258 Social Media Marketing and Web Analytics	3
<input type="checkbox"/> BUSN 238 Principles of Advertising	3
<input type="checkbox"/> CISM 151 Web Development-HTML/CSS	4
<input type="checkbox"/> CISM 152 Advanced Web Development	3
	16

**TOTAL MINIMUM CREDITS: 16**

### Program Notes

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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

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



[ENTRAAS; 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
- 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**

Jim Celia, Assistant Dean of Business Studies  
jcelia2@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"/> ACCT 101 Accounting I	4
<input type="checkbox"/> BUSN 109 Business Law I	3
<input type="checkbox"/> BUSN 114 Introduction to Entrepreneurship	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
	13-14

**Spring Semester**

<input type="checkbox"/> BUSN 200 Principles of Management	3
<input type="checkbox"/> BUSN 250 Principles of Marketing	3
<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> ENGL 102 English Composition II <b>or</b> COMM 103 Technical and Scientific Writing	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
	16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> BUSN 238 Principles of Advertising	3
<input type="checkbox"/> BUSN 254 Human Resources Management	3
<input type="checkbox"/> CISM 119 Spreadsheets – Excel	4
<input type="checkbox"/> ECON 102 Principles of Economics (Micro)	3
<input type="checkbox"/> MATH 103 Statistics I <b>or</b> MATH 120 Pre-Calculus and Mathematical Analysis <b>or</b> ____ Higher Level Mathematics Elective (excluding MATH 116)	3-4
	16-17

**Spring Semester**

<input type="checkbox"/> ACCT 207 Accounting Information Systems	3
<input type="checkbox"/> BUSN 201 Small Business Management	3
<input type="checkbox"/> BUSN 258 Social Media Marketing and Web Analytics	3
<input type="checkbox"/> BUSN 226 Introduction to International Business <b>or</b> COMM 104 Business Communication	3
<input type="checkbox"/> ____ General Education Humanities Elective	3
	15

**TOTAL MINIMUM CREDITS: 60**



[ENTRCOA; 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**

Jim Celia, Assistant Dean of Business Studies  
jcelia2@rcsj.edu

# Entrepreneurship, COA

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> BUSN 114 Introduction to Entrepreneurship	3
<input type="checkbox"/> BUSN 200 Principles of Management	3
<input type="checkbox"/> BUSN 201 Small Business Management	3
<input type="checkbox"/> CISM 101 Introduction to Computers <b>or</b> CISM 119 Spreadsheets – Excel	4
<input type="checkbox"/> ____ ____ Program Elective <sup>1</sup>	3-4

16-17

**TOTAL MINIMUM CREDITS: 16-17**

**Program Notes**

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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

**Program Electives<sup>1</sup>**

- ACCT 101 Accounting I
- BUSN 109 Business Law I
- ACCT 207 Accounting Information Systems
- BUSN 250 Principles of Marketing
- BUSN 258 Social Media Marketing and Web Analytics
- BUSN 254 Human Resources Management
- COMM 104 Business Communication
- SPEH 101 Effective Speech

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



# Finance, A.S.

[FINCAS; CIP Code 52.0801]

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

The Finance A.S. program offers a comprehensive foundation for students pursuing a bachelor's degree in finance, financial planning, or financial management. Through this program, students will gain valuable knowledge and skills in areas such as personal and corporate budgeting, risk assessment and insurance, investing in real and financial assets, and long-term strategic planning. Additionally, the program prepares students for entry-level roles and internships in sectors like banking, investments, and real estate, equipping them with the practical tools to succeed in a dynamic financial environment.

### Program Learning Outcomes

Students who have completed the program should be able to:

- Apply traditional models to determine the value of common financial instruments, such as stocks and bonds, and evaluate the performance of a portfolio
- Demonstrate an understanding of common techniques in capital budgeting and financial decision-making, including evaluating the weighted marginal cost of capital, payback, internal rate of return, net present value, and cost-volume-profit analysis
- Utilize technology, including spreadsheets and presentations, to communicate business and financial recommendations clearly both verbally and visually
- Prepare and present a well-reasoned financial analysis of a major U.S. corporation

### Program Contact

Stacey L. Callaway, JD, MBA,  
Associate Professor and Coordinator,  
Business Administration and Finance  
[scallawa@rcsj.edu](mailto:scallawa@rcsj.edu)

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

### FIRST YEAR – Fall Semester

<input type="checkbox"/> ACCT 101 Accounting I	4
<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> FINC 101 Personal Finance	3
	14–15

### Spring Semester

<input type="checkbox"/> ACCT 102 Accounting II	4
<input type="checkbox"/> BUSN 200 Principles of Management	3
<input type="checkbox"/> ECON 101 Principles of Economics (Macro)	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 103 Statistics I	3
	16

### SECOND YEAR – Fall Semester

<input type="checkbox"/> ECON 102 Principles of Economics (Micro)	3
<input type="checkbox"/> FINC 201 Financial Planning	3
<input type="checkbox"/> FINC 202 Financial Management	3
<input type="checkbox"/> PHIL 101 Introduction to Philosophy <b>or</b> PHIL 150 Critical Thinking	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
	15

### Spring Semester

<input type="checkbox"/> BUSN 226 Introduction to International Business <b>or</b> CSCI 110 Technology Literacy	2–3
<input type="checkbox"/> COMM 104 Business Communication	3
<input type="checkbox"/> FINC 203 Corporate Finance	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> _____ General Education Lab Science Elective	4
	15–16

**TOTAL MINIMUM CREDITS: 60**



[BUSNHRAS; 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 should 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**

Stacey L. Callaway, JD, MBA,  
Associate Professor and Coordinator,  
Business Administration and Finance  
scallawa@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"/> ACCT 101 Accounting I	4
<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> BUSN 105 Personal and Professional Branding <b>or</b> _____ Health and Physical Education Elective	1–3
	12–15

**Spring Semester**

<input type="checkbox"/> ACCT 102 Accounting II	4
<input type="checkbox"/> BUSN 200 Principles of Management	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 125 Mathematics for Management	4
<input type="checkbox"/> PSYC 101 General Psychology	3
	17

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> BUSN 254 Human Resources Management	3
<input type="checkbox"/> BUSN 262 Organizational Behavior	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> _____ General Education Lab Science Elective	4
<input type="checkbox"/> SPEH 101 Effective Speech	3
	16

**Spring Semester**

<input type="checkbox"/> BUSN 250 Principles of Marketing	3
<input type="checkbox"/> BUSN 246 Business Ethics	3
<input type="checkbox"/> BUSN 266 Organizational Development	3
<input type="checkbox"/> ISCC 211 Internship Career Connections	3
<input type="checkbox"/> ECON 101 Principles of Economics (Macro)	3
	15

**TOTAL MINIMUM CREDITS: 60**



## Management, COA

[BUSNMCOA; 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

Stacey L. Callaway, JD, MBA,  
Associate Professor and Coordinator,  
Business Administration and Finance  
[scallawa@rcsj.edu](mailto:scallawa@rcsj.edu)

#### FIRST YEAR – Fall Semester

<input type="checkbox"/> BUSN 200 Principles of Management	3
<input type="checkbox"/> BUSN 254 Human Resources Management	3
<input type="checkbox"/> BUSN 262 Organizational Behavior	3
<input type="checkbox"/> BUSN 266 Organizational Development	3
<input type="checkbox"/> BUSN 246 Business Ethics	3
<input type="checkbox"/> BUSN 105 Personal and Professional Branding	1
	<hr/> 16

**TOTAL MINIMUM CREDITS: 16**

#### Program Notes

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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

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



[NETMAAS; CIP Code 11.0901]

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

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

**Program Learning Outcomes**

Students who have completed the program should be able to:

- Demonstrate Network Management Theory
- Demonstrate practical ability to apply Network Management concepts
- Demonstrate practical ability to configure operating systems

**Program Contact**

Anthony Haddad, Administrative Instructor  
for Cybersecurity Education  
[ahaddad@rcsj.edu](mailto:ahaddad@rcsj.edu)

# Network Management, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> CSCI 179 PC Support & Service	4
<input type="checkbox"/> CSCI 175 Core Client Operating Systems	3
<input type="checkbox"/> CISM 217 Introduction to Networks	4
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> FRSH 101 College and Career Planning	1
	15-16

**Spring Semester**

<input type="checkbox"/> CYBR 229 Linux Installation and Configuration	3
<input type="checkbox"/> CISM 233 Routing and Switching Essentials	4
<input type="checkbox"/> CYBR 201 Core Server Operating System	4
<input type="checkbox"/> ENGL 102 English Composition II <b>or</b> COMM 103 Technical and Scientific Writing <b>or</b> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ General Education Diversity Elective	3
	17

**SECOND YEAR – Fall Semester**

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

**Spring Semester**

<input type="checkbox"/> CISM 235 Connecting Networks	4
<input type="checkbox"/> ____ General Education Social Science Elective	3
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ General Education Mathematics Elective (excluding MATH 115)	3-4
	13-14

**TOTAL MINIMUM CREDITS: 60**

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



## Technology Help Desk Support, COA

[CISYTHDCOA; 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, Associate Professor and Coordinator, Computer Information Systems and Digital Marketing  
[iskot@rcsj.edu](mailto:iskot@rcsj.edu)

#### FIRST YEAR – Fall Semester

<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> CISM 119 Spreadsheets – Excel	4
<input type="checkbox"/> CISM 210 Relational Databases	4
<input type="checkbox"/> CISM 220 IT Help Desk/Technical Support	3
<input type="checkbox"/> ____ CISM Elective <b>or</b>	
ISCC 211 Internship Career Connections	<u>3</u>
	18

**TOTAL MINIMUM CREDITS: 18**

#### Program Notes

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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

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



# Website Development, COA

[CISYWCOA; 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, Associate Professor and  
Coordinator, Computer Information Systems  
and Digital Marketing  
[iskot@rcsj.edu](mailto:iskot@rcsj.edu)

### FIRST YEAR – Fall Semester

<input type="checkbox"/> CISM 151 Web Development-HTML/CSS	4
<input type="checkbox"/> CISM 152 Advanced Web Development	3
<input type="checkbox"/> COGA 212 Screen Graphics	3
<input type="checkbox"/> CISM 114 Fundamentals of Programming	4
<input type="checkbox"/> CISM 251 Web Programming	3
	17

**TOTAL MINIMUM CREDITS: 17**

### Program Notes

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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

*Shaniel B., Global Wind Organization Basic Technical Training*



### 4 course 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.



[AUTOAAS; CIP Code 47.0604]

**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 should 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

**Program Contact**

Rachel Blaetz, Program Director  
[rblaetz@rcsj.edu](mailto:rblaetz@rcsj.edu)

Matt Maggioncalda  
[mmaggion@rcsj.edu](mailto:mmaggion@rcsj.edu)

# Automotive Technology, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> AUTO 101 Auto Service Fundamentals	2
<input type="checkbox"/> AUTO 107 Automotive Electrical Systems	5
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> MATH 100 Foundations of Mathematics I	3
<input type="checkbox"/> ISCC 200 Cooperative Education Work Experience <sup>1</sup>	1
	14–15

**Spring Semester**

<input type="checkbox"/> AUTO 105 Brakes and Hydraulic Controls	3
<input type="checkbox"/> AUTO 103 Front End Suspension	3
<input type="checkbox"/> HIST 204 The First 100 Years of the American Automobile	3
<input type="checkbox"/> PHYS 101 Principles of Physical Science	4
<input type="checkbox"/> ARTS 101 Art Appreciation	3
	16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> AUTO 110 Engine Repair and Engine Management	4
<input type="checkbox"/> AUTO 111 Heating, Ventilation and Air Conditioning	3
<input type="checkbox"/> CISM 101 Introduction to Computers	4
<input type="checkbox"/> AUTO 135 Manual Transmissions	3
<input type="checkbox"/> ISCC 203 Cooperative Education Work Experience II <sup>1</sup>	1
	15

**Spring Semester**

<input type="checkbox"/> ISCC 204 Cooperative Education Work Experience III <sup>1</sup>	1
<input type="checkbox"/> AUTO 139 Automatic Transmission Systems	3
<input type="checkbox"/> AUTO 123 Automotive Electronics	4
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> ISCC 208 Cooperative Education Work Experience IV <sup>1</sup>	1
	15

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

The Automotive Technology Educational Training Program is a cooperative agreement between the College and the Gloucester County Institute of Technology. Automotive Technology is a full-time, two-year curriculum composed of four, 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.

<sup>1</sup> 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. Students must be accepted into the program prior to registering for any AUTO courses. Please contact the Office of Admissions for an Admission Packet.

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



[DENTAAS; CIP Code 51.0601]

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

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

**Program Learning Outcomes**

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

**Program Contact**

Jaci Klepadlo M. Ed., BSDH, CDA,  
Executive Director, Dental  
jklepadl@rcsj.edu

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

# Dental Assisting, A.A.S.

**FIRST YEAR – Summer Start**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> DENT 101 Dental Science I	1
	7-8

**Fall Semester**

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

**Spring Semester**

<input type="checkbox"/> DENT 205 Chairside Assisting & Expanded Functions II	4
<input type="checkbox"/> DENT 120 Dental Patient & Practice Management	2
<input type="checkbox"/> DENT 125 Dental Materials	3
<input type="checkbox"/> DENT 210 Dental Externship	7
	16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> BIOL 105 Anatomy & Physiology I	4
<input type="checkbox"/> NTRN 101 Nutrition	3
<input type="checkbox"/> PSYC 101 General Psychology <i>or</i> SOC1 101 Introduction to Sociology	3
<input type="checkbox"/> _____ General Education Elective	2-3
	12-13

**Spring Semester**

<input type="checkbox"/> _____ General Education Mathematics Elective	3
<input type="checkbox"/> _____ General Education Elective	3
<input type="checkbox"/> _____ General Education Elective	3
<input type="checkbox"/> _____ General Education Elective	3
	12

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

General education courses and transferrable. Advisors should direct students to take general education electives based on their interest for transferring to a four-year college program/degree.

Students must receive a grade of 75 or higher in all dental courses.



[DENTAC; CIP Code 51.0601]

**Academic Certificate**

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

**Program Learning Outcomes**

This program prepares students to sit for the three components of the Dental Assisting National Board Exams (DANB): Radiation and Safety Examination (RHS); Infection Control (ICE); and General Chairside (GC) which are the three components of the nationally recognized Certified Dental Assistant (CDA) certification. In addition to the CDA certification, students will be eligible to apply for their New Jersey Dental Radiology Technologist licensure, and expanded-functions licensure in the State of New Jersey as a Registered Dental Assistant (RDA).

**Program Contact**

Jaci Klepadlo M. Ed., BSDH, CDA,  
Executive Director, Dental  
jklepadl@rcsj.edu

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

# Dental Assisting, AC

**FIRST YEAR – Summer**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> SPEH 101 Effective Speech <sup>1</sup>	3
<input type="checkbox"/> DENT 101 Dental Science I	1
	7-8

**Fall Semester**

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

**Spring Semester**

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

**TOTAL MINIMUM CREDITS: 35**

**Program Notes**

Students must receive a grade of 75 or higher to progress in all Dental courses.

<sup>1</sup> General education courses and transferrable.



[MEDCCERT; CIP Code 51.0707]

### Certificate Program

This certificate program will prepare the student to work in many areas requiring coding expertise. The coding courses follow the prerequisites Medical Terminology and Human Biology, which expose the student to terms and anatomy necessary for learning medical coding. This program can be completed as a fulltime or part-time student. The program at Camden County College is approved by the American Health Information Management Association (AHIMA). Medical coders provide an essential part of managing health information that allows hospitals and physician offices to receive payment for services. Each diagnosis or treatment is assigned a code for which payment may be received. Code assignments are based on coding classification guidelines, federal regulations and sometimes state regulations. In the United States healthcare can be complex and has many components including the clinical side, administrative elements, and governmental oversight. Adequately trained personnel are essential for proper reporting of information to ensure correct reimbursement. Area medical facilities currently seek trained staff with the coding skills necessary to efficaciously meet the financial needs of these institutions. Theory and lab experience will provide the learner with job-readiness skills.

#### Program Contact

Michael Goonan, Assistant Dean, CTE  
[mgoonan@rcsj.edu](mailto:mgoonan@rcsj.edu)

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

# Medical Coding, CERT

**A joint certificate program with Camden County College.**

#### FIRST YEAR – Fall Semester @ RCSJ

<input type="checkbox"/> BIOL 107 Human Biology	4
<input type="checkbox"/> CSCI 101 Introduction to Microcomputers	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> HPRF 102 Medical Terminology	3
<input type="checkbox"/> HPRF 108 Introduction to Health Information	3
	16-17

#### Spring Semester @ Camden County College online

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

#### SECOND YEAR – Fall Semester @ Camden County College online

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

**TOTAL MINIMUM CREDITS: 40**

#### Program Learning Outcomes

Students who have completed the program will be able to:

- Effectively demonstrate competencies with the most current coding software.
- Effectively use practical coding tools such as medical records and operative reports.
- Take the national entry-level certification by the American Health Information Management Association (AHIMA) with the Certified Coding Associate (CCA) credential



# Technical Studies, A.A.S.

[TECSAAS; CIP Code 15.9999]

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

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

### Program Learning Outcomes

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

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

### Program Contact

Michael Goonan, Assistant Dean, CTE  
mgoonan@rcsj.edu

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

### FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <i>or</i> ____ General Education Lab Science Elective <i>or</i> ____ General Education Technology Elective	3-4
<input type="checkbox"/> ____ General Education Elective	3-4
<input type="checkbox"/> ____ Technical Elective <sup>1</sup>	3-4
	12-16

### Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ____ General Education Social Science Elective <i>or</i> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ Technical Elective <sup>1</sup>	3-4
<input type="checkbox"/> ____ Technical Elective <sup>1</sup>	3-4
	12-14

### SECOND YEAR – Fall Semester

<input type="checkbox"/> ____ General Education Diversity Elective	3
<input type="checkbox"/> ____ General Education Elective	3-4
<input type="checkbox"/> ____ Technical Elective <sup>1</sup>	3-4
	9-11

### Spring Semester

<input type="checkbox"/> ____ Technical Elective <sup>1</sup>	3-4
	3-4
<input type="checkbox"/> Apply 24 Technical Credits, as per Articulation Agreement <sup>2</sup>	24

**TOTAL MINIMUM CREDITS: 60**

### Program Notes

**Technical Credits<sup>2</sup>** – 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 below.

### Technical Electives Bank<sup>1</sup>

Business Studies: BUSN, ACCT, ECON  
Computer Aided Drafting & Design: ENGR, DRAF/EETEC, MATH  
Engineering Technology: ENGR, DRAF/EETEC, PHYS, MATH  
Construction Supervision: COMG, DRAF/EETEC, BUSN



[WTECCERT; CIP Code 15.1704]

### Certificate Program

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 the program should 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 of Wind and Renewable Energy Technology  
[lalmeyda@rcsj.edu](mailto:lalmeyda@rcsj.edu)

# Wind Power and Turbine Technology, CERT

## FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i>	
ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 120 Pre-Calculus and Mathematical 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
	17-18

## Spring Semester

<input type="checkbox"/> CISM 114 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
	14

**TOTAL MINIMUM CREDITS: 31**

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



DIVISION OF  
**Communication and  
Creative & Performing Arts**

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

[RCSJ.edu/CCPA](https://RCSJ.edu/CCPA)

*Michael S., Radio/TV/Film*



**4 course 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; hands-on creative experiences through student publications, videos, and artistic endeavors; 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.



[ARTGAOAA; CIP Code 24.0101]

### Associate in Arts (A.A) – Transfer

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

#### Program Learning Outcomes

Students who have completed the program should 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  
ekinnarn@rcsj.edu

# Arts and Sciences: Arts Option, A.A.

### FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <sup>1</sup>	3-4
<input type="checkbox"/> ARTS 101 Art Appreciation	3
<input type="checkbox"/> MUSI 101 Music Appreciation	3
<input type="checkbox"/> HIST ____ General Education History Elective <sup>1</sup>	3
	<hr/> 15-16

### Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <sup>1</sup>	3-4
<input type="checkbox"/> HIST ____ General Education History Elective <sup>1</sup>	3
<input type="checkbox"/> ____ ____ Global and Cultural Awareness Elective <sup>1</sup>	3
<input type="checkbox"/> ____ ____ Health and Physical Education Elective <sup>1</sup>	1-3
<input type="checkbox"/> ARTS 103 Art History I	3
	<hr/> 16-18

### SECOND YEAR – Fall Semester

<input type="checkbox"/> ____ ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> ____ ____ General Education English Elective <sup>1</sup>	3
<input type="checkbox"/> ARTS 203 Art History II	3
	<hr/> 13

### Spring Semester

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> PHIL 101 Introduction to Philosophy	3
<input type="checkbox"/> ARTS ____ ARTS Program Elective <sup>2</sup>	3
	<hr/> 16

**TOTAL MINIMUM CREDITS: 60**

### Program Notes

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

### ARTS Program Electives<sup>2</sup>

- ARTS 105 Drawing I
- ARTS 107 Painting I
- ARTS 109 Drawing and Painting
- ARTS 113 History of Photography
- ARTS 117 Introduction to Digital Photography
- ARTS 131 Color Theory
- ARTS 217 Intermediate Digital Photography

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



[ARTGCOAA; CIP Code 24.0101]

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

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

**Program Learning Outcomes**

Students who have completed the program should 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, Associate Professor  
avinci@rcsj.edu

# Arts and Sciences: Communication Option, A.A.

## 3+1 option in Applied Professional Communications

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH ____ General Education Mathematics Elective	3-4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> ARTS 101 Art Appreciation <i>or</i> MUSI 101 Music Appreciation	3
<input type="checkbox"/> HIST ____ General Education History Elective	3
	15-17

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> HIST ____ General Education History Elective	3
<input type="checkbox"/> COMM 201 Journalism I	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> ENGL ____ English Global and Cultural Awareness Elective <sup>2</sup>	3
<input type="checkbox"/> ____ Program Option Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Global and Cultural Awareness Elective	3
<input type="checkbox"/> ____ Program Option Elective <sup>1</sup>	3
	16

**Spring Semester**

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ General Education Lab Science Elective	4
<input type="checkbox"/> PHIL 101 Introduction to Philosophy	3
<input type="checkbox"/> ____ Health and Physical Education Elective	1-3
<input type="checkbox"/> ____ Program Option Elective <sup>3,4</sup>	3
	14

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

- <sup>1</sup> Students should contact their advisors to clarify 4-year degree transfer requirements and refer to the College catalog for course pre-requisites.
- <sup>2</sup> English Global and Cultural Awareness Electives
- <sup>3</sup> Students intending to transfer to Rowan University should take COMM 205 Feature Writing and COMM 101 Mass Media as program option electives.
- <sup>4</sup> Students intending to take the 3+1 Applied Professional Communications Option are recommended to take COGA 103 and COGA 121 as Program Option Electives

**Program Electives**

COMM 104 Business Communications	COMM 220 Creative Writing: Non-Fiction
COMM 103 Technical and Scientific Writing	COMM 222 Creative Writing: Fiction
COMM 115 Sports Communication, Culture & Identity	COMM 223 Creative Writing: Poetry
COMM 140 Internet Research and Communications	COMM 217 Journalism Workshop II
ENGL 214 Argumentative and Persuasive Writing	COMM 101 Mass Media <sup>3</sup>
COMM 205 Feature Writing <sup>3</sup>	COGA 103 Design Type and Color <sup>4</sup>
	COGA 121 Introduction to Electronic Publishing and Typography <sup>4</sup>

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



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

*The 3+1 Program 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 Program

### FIRST YEAR — Fall Semester

<input type="checkbox"/> COMM 305 Writing, Research, and Technology	3
<input type="checkbox"/> COMM 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
	15

### Spring Semester

<input type="checkbox"/> COMM 300 Publication, Layout, and Design	3
<input type="checkbox"/> COMM 334 Digital Media Techniques	3
<input type="checkbox"/> COGA 121 Introduction to Electronic Publishing and Typography <b>or</b> ____ Free Elective	3
<input type="checkbox"/> ____ Free Elective	3
<input type="checkbox"/> ____ Free Elective	3
	15

### STEP 1

**START AT RCSJ**  
ARTS AND SCIENCES  
COMMUNICATIONS  
OPTION (A.A.)

### STEP 2

**END AT**  
**ROWAN UNIVERSITY**  
APPLIED PROFESSIONAL  
COMMUNICATIONS (B.A.)

**FOURTH YEAR** — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 Program 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 Program:

Stephen Sweeney, Assistant Director,  
3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

#### About the program:

Andrea Vinci, Associate Professor,  
[avinci@rcsj.edu](mailto:avinci@rcsj.edu)

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



[ARTGDPAA; CIP Code 24.0101]

### Associate in Arts (A.A.) – Transfer

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

#### Program Learning Outcomes

Students who have completed the program should 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  
ekinnarn@rcsj.edu

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

## FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <sup>1</sup>	3–4
<input type="checkbox"/> HIST ____ General Education History Elective	3
<input type="checkbox"/> ARTS ____ Art Program Elective <sup>2</sup>	3
<input type="checkbox"/> ARTS 113 History of Photography	3
	<hr/> 15–17

## Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <sup>1</sup>	3–4
<input type="checkbox"/> HIST ____ General Education History Elective	3
<input type="checkbox"/> ARTS 117 Introduction to Digital Photography	3
<input type="checkbox"/> ____ Global and Cultural Awareness Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Health and Physical Education Elective	1–3
	<hr/> 16–18

## SECOND YEAR – Fall Semester

<input type="checkbox"/> ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> ____ General Education English Elective	3
<input type="checkbox"/> ARTS 119 Introduction to Adobe Photoshop	3
	<hr/> 13

## Spring Semester

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> PHIL 101 Introduction to Philosophy	3
<input type="checkbox"/> ARTS 217 Intermediate Digital Photography	3
	<hr/> 16

**TOTAL MINIMUM CREDITS: 60**

### Program Notes

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

<sup>2</sup> The art elective may be selected from the following courses.

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

### Program Electives<sup>2</sup>

- ARTS 101 Art Appreciation
- ARTS 105 Drawing I
- ARTS 109 Drawing and Painting
- ARTS 107 Painting I
- ARTS 131 Color Theory
- ARTS 103 Art History I
- ARTS 203 Art History II
- ARTS 207 Painting II

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



[ARTGEOAA; CIP Code 24.0101]

### Associate in Arts (A.A.) – Transfer

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

#### Program Learning Outcomes

Students who have completed the program should 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

Sarah Hastings, Assistant Professor  
[shastin1@rcsj.edu](mailto:shastin1@rcsj.edu)

# Arts and Sciences: English Option, A.A.

## FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3
<input type="checkbox"/> _____ Math <i>or</i> Science General Education Elective	3-4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> ARTS 101 Art Appreciation <i>or</i> MUSI 101 Music Appreciation	3
<input type="checkbox"/> HIST ____ Historical General Education Elective	3
	15-16

## Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> _____ Math <i>or</i> Science General Education Elective	3-4
<input type="checkbox"/> ENG 250 Critical Methods I	3
<input type="checkbox"/> SOCI 101 Principles of Sociology	3
<input type="checkbox"/> ENGL ____ Program Elective	3
	15-16

## SECOND YEAR – Fall Semester

<input type="checkbox"/> ENGL 251 Critical Methods II	3
<input type="checkbox"/> _____ Free Elective	3
<input type="checkbox"/> PHIL 101 Introduction to Philosophy	3
<input type="checkbox"/> ENGL 230 Major American Writers	3
<input type="checkbox"/> _____ Global and Cultural Awareness General Education Elective	3
	15

## Spring Semester

<input type="checkbox"/> SPEH 101 Oral Communications	3
<input type="checkbox"/> PSYC 203 Educational Psychology <i>or</i> SOCI ____ Sociology Elective	3
<input type="checkbox"/> ENGL 201 Major British Writers from the Middle Ages to the 18th Century <i>or</i> ENGL 202 Major British Writers from the 18th Century to Present	3
<input type="checkbox"/> ENGL ____ Program Elective	3
<input type="checkbox"/> ENGL ____ Program Elective	3
	15

**TOTAL MINIMUM CREDITS: 60-62**

### Program Electives

COMM 206 Creative Writing: Nonfiction	ENGL 225 20th Century American Authors
COMM 207 Creative Writing: Fiction	ENGL 235 American Film Classics
COMM 208 Creative Writing: Poetry	ENGL 236 Contemporary American Film
ENGL 103 Survey of World Literature	ENGL 237 American Horror Literature & Film
ENGL 107 Principles of English Grammar	ENGL 238 Films of Alfred Hitchcock
ENGL 203 Literature by Women	ENGL 240 Introduction to Children's Literature
ENGL 213 Non-Western Literature	ENGL 241 Survey of African American Literature
ENGL 215 Immigrant Voices in American Literature	
ENGL 224 Romantic Era in American Literature	

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



[ARTGMOAA; CIP Code 24.0101]

### Associate in Arts (A.A.) – Transfer

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

#### Program Learning Outcomes

Students who have completed the program should 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 skill

#### Program Contact

Natalka Pavlovsky, Senior Professor  
npavlovs@rcsj.edu

# Arts and Sciences: Music Option, A.A.

## FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> HIST ____ General Education History Elective	3
<input type="checkbox"/> ARTS 101 Art Appreciation	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <sup>1</sup>	3
	12-14

## Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> HIST ____ General Education History Elective	3
<input type="checkbox"/> MUSI 120 Music Theory <sup>2</sup>	3
<input type="checkbox"/> MUSI 224 Aural Skills I <sup>2,+</sup>	1
<input type="checkbox"/> ____ ____ General Education Global and Cultural Awareness Elective <sup>1</sup>	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective	3-4
	16-17

## SECOND YEAR – Fall Semester

<input type="checkbox"/> ____ ____ General Education English Elective	3
<input type="checkbox"/> ____ ____ General Education Elective <sup>1</sup>	3
<input type="checkbox"/> ____ ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> MUSI 128 History of Music	3
	16

## Spring Semester

<input type="checkbox"/> PHIL 101 Introduction to Philosophy	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> MUSI ____ Program elective – Music	3
	16

**TOTAL MINIMUM CREDITS: 60**

### Program Notes

- <sup>1</sup> Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course pre-requisites.
- <sup>2</sup> Placement into MUSI 120 Music Theory is by Placement Exam or Instructor's permission. No exceptions.
- <sup>+</sup> Basic Musicianship/Basic Aural Skills will NOT transfer to any four-year music program. They are open to any student, but considered remedial for Music Option students.

### Program Electives

- MUSI 109, 110, 111, 112 Choral Workshop I – IV
- MUSI 113 Fundamentals of Musicianship
- MUSI 118 American Popular Music
- MUSI 136 History of Musical Theatre
- MUSI 201 American Music

✦ 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.

**Cumberland Campus program name: Liberal Arts: Radio/Television/Film**

## 3+1 option in Radio/Television/Film

[ARTGROAA; 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 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 Learning Outcomes

Students who have completed the program should be able to:

- 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

#### Cumberland Program Contact

Nathaniel Clark, Assistant Professor I,  
[nclark4@rcsj.edu](mailto:nclark4@rcsj.edu)

#### Cumberland Program Contact

Michael Wolverton, Instructor I,  
[mwolvert@rcsj.edu](mailto:mwolvert@rcsj.edu)

#### FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <b>or</b>	
ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <sup>3</sup>	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> HIST ____ General Education History Elective <sup>2</sup>	3
<input type="checkbox"/> RTVF 275 Applied Media Aesthetics	3
<input type="checkbox"/> FRSH 101 College and Career Planning <b>or</b>	
____ Health and Physical Education Elective	1–3
	15–17

#### Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <sup>3</sup>	3–4
<input type="checkbox"/> ARTS 101 Art Appreciation <b>or</b>	
MUSI 101 Music Appreciation	3
<input type="checkbox"/> HIST ____ General Education History Elective <sup>2</sup>	3
<input type="checkbox"/> RTVF 201 Foundations Media Production	3
	15–16

#### SECOND YEAR – Fall Semester

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> ____ General Education Global and Cultural Awareness Elective	3
<input type="checkbox"/> RTVF 205 TV History and Appreciation	3
	16

#### Spring Semester

<input type="checkbox"/> ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> PHIL 101 Introduction to Philosophy	3
<input type="checkbox"/> ____ General Education Humanities-Broad-Based (HUP) Elective <sup>1</sup>	3
<input type="checkbox"/> RTVF 270 Film History and Appreciation	3
	13

**TOTAL MINIMUM CREDITS: 60**

#### Program Notes

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

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

<sup>3</sup> MATH 101, MATH 102, MATH 115 suggested

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

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



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

The 3+1 Program 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 Program

### FIRST YEAR — Fall Semester

<input type="checkbox"/> RTVF 322 Television Production I	3
<input type="checkbox"/> RTVF 393 Screenwriting I	3
<input type="checkbox"/> _____ Free Elective (Literature Required)	3
<input type="checkbox"/> _____ Free Elective	3
<input type="checkbox"/> _____ Free Elective	3
	15

### Spring Semester

<input type="checkbox"/> RTVF 370 Film Production I	3
<input type="checkbox"/> RTVF 317 The Movie Industry	3
<input type="checkbox"/> _____ Free Elective	3
<input type="checkbox"/> _____ Free Elective	3
<input type="checkbox"/> _____ Free Elective	3
	15

### STEP 1

**START AT RCSJ**  
ARTS AND SCIENCES:  
RADIO/TELEVISION/FILM  
OPTION (A.A.)

### STEP 2

**END AT  
ROWAN UNIVERSITY**  
RADIO/TELEVISION/  
FILM (B.A.)

**FOURTH YEAR** — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 Program 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 Program:

Stephen Sweeney, Assistant Director,  
3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

#### Cumberland - About the program:

Nathaniel Clark, Assistant Professor I,  
[nclark4@rcsj.edu](mailto:nclark4@rcsj.edu)

#### Gloucester - About the program:

Michael Wolverton, Instructor I,  
[mwolvert@rcsj.edu](mailto:mwolvert@rcsj.edu)

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



[CERM CERT; CIP Code 50.0711]

### Certificate Program

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

### Program Learning Outcomes

Students who have completed the program should be able to:

- Demonstrate basic concepts of structure and construction techniques
- Recognize and demonstrate use of tools and materials associated with three-dimensional design
- Analyze glaze and clay formulation, operate kilns and other studio equipment
- Perform basic maintenance of a functioning ceramic studio
- Design and write a business plan, resume, artist statement and bio

### Program Contact

Jacqueline Sandro-Greenwell,  
Director of Fine Arts and Clay College  
[jgreenwe@rcsj.edu](mailto:jgreenwe@rcsj.edu)

# Ceramics Technology, CERT

## FIRST YEAR – Fall Semester

<input type="checkbox"/> ARTS 105 Drawing I	3
<input type="checkbox"/> CERS 101 Ceramics I	3
<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> _____ General Education Humanities Elective	3
	<hr/> 12-13

## Spring Semester

<input type="checkbox"/> ARTS 209 3-Dimensional Design	3
<input type="checkbox"/> CERS 102 Ceramics II	3
<input type="checkbox"/> CERS 104 Sculptural Ceramics	3
<input type="checkbox"/> CERS 106 Ceramic Technologies	3
	<hr/> 12

## SECOND YEAR – Fall Semester

<input type="checkbox"/> CERS 103 Ceramics III	3
<input type="checkbox"/> CERS 110 Clay Co-Op Experience – Gallery <i>or</i> CERS 112 Clay Co-Op Experience – Studio	3
<input type="checkbox"/> CERS 108 Craft Business Practices	3
	<hr/> 9

**TOTAL MINIMUM CREDITS: 33**

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



## Digital Photography, COA

[DIPHCOA; CIP Code 09.0702]

### 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  
[ekinnarn@rcsj.edu](mailto:ekinnarn@rcsj.edu)

#### FIRST YEAR – Fall Semester

<input type="checkbox"/> ARTS 117 Introduction to Digital Photography	3
<input type="checkbox"/> ARTS 119 Introduction to Adobe Photoshop	3
<input type="checkbox"/> ARTS 217 Intermediate Digital Photography	3
<input type="checkbox"/> ARTS 113 History of Photography	3
<input type="checkbox"/> ARTS 131 Color Theory	3
	15

**TOTAL MINIMUM CREDITS: 15**

#### Program Notes

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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



[FINAAFA; CIP Code 50.0702]

**Associate in Fine Arts (A.F.A.)  
– Transfer**

For students who want to concentrate on fine arts courses and take fewer liberal arts electives than students in the Fine and Performing Arts Associate in Arts degree programs. Cumberland's Associate in Fine Arts program prepares you to transfer as a junior in a fine arts bachelor's degree program at an art college. You can specialize in ceramics, painting, drawing or sculpture. You'll get a solid foundation in drawing and design along with the time to specialize in your chosen art medium. You'll learn critical and creative thinking skills, and the techniques of artistic practice. You'll compile a strong art portfolio, which is necessary for applying to four-year colleges and jobs.

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

**Program Contact**

Jacqueline Sandro-Greenwell,  
Director of Fine Arts and Clay College  
[jgreenwe@rcsj.edu](mailto:jgreenwe@rcsj.edu)

# Fine Arts, A.F.A.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ARTS 105 Drawing I	3
<input type="checkbox"/> ARTS 107 Painting I	3
<input type="checkbox"/> CERS 101 Ceramics I	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> ____ ____ General Education Mathematics Elective <b>or</b> ____ ____ General Education Lab Science Elective	3-4
	15-17

**Spring Semester**

<input type="checkbox"/> ARTS 103 Art History I	3
<input type="checkbox"/> ARTS 205 Drawing II	3
<input type="checkbox"/> ARTS 125 Printmaking	3
<input type="checkbox"/> ARTS 129 2-Dimensional Design	3
<input type="checkbox"/> ENGL 102 English Composition II	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ARTS 203 Art History II	3
<input type="checkbox"/> ARTS 127 Sculpture I	3
<input type="checkbox"/> ARTS 134 Life Drawing	3
<input type="checkbox"/> ARTS 117 Introduction to Digital Photography	3
<input type="checkbox"/> ____ ____ General Education Diversity Elective	3
	15-16

**Spring Semester**

<input type="checkbox"/> ARTS 131 Color Theory	3
<input type="checkbox"/> ARTS 209 3-Dimensional Design	3
<input type="checkbox"/> ____ ____ General Education Social Science Elective	3
<input type="checkbox"/> ____ ____ Program Elective <sup>1</sup>	3
<input type="checkbox"/> ____ ____ Program Elective <sup>1</sup>	3
	15

**TOTAL MINIMUM CREDITS: 60**

**Program Electives<sup>1</sup>**

- ARTS 121 Introduction to Art Therapy & Method
- ARTS 207 Painting II
- ARTS 217 Intermediate Digital Photography
- CERS 102 Ceramics II
- CERS 104 Sculptural Ceramics
- CERS 110 Clay Co-Op Experience - Gallery

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



[ARTCCAA; CIP Code 24.0101]

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

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

**Program Learning Outcomes**

Students who have completed the program should be able to:

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

**Program Contact**

Jacqueline Sandro-Greenwell,  
Director of Fine Arts and Clay College  
[jgreenwe@rcsj.edu](mailto:jgreenwe@rcsj.edu)

# Liberal Arts: Ceramics, A.A.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ARTS 105 Drawing I	3
<input type="checkbox"/> CERS 101 Ceramics I	3
<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <b>or</b> CSCI 110 Technology Literacy	2-3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH ____ General Education Mathematics Elective	3-4
	14-17

**Spring Semester**

<input type="checkbox"/> ARTS 103 Art History I	3
<input type="checkbox"/> CERS 102 Ceramics II	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ____ General Education History Elective	3
<input type="checkbox"/> ____ General Education Humanities Elective	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ARTS 203 Art History II	3
<input type="checkbox"/> CERS 104 Sculptural Ceramics <b>or</b> CERS 106 Ceramic Technologies	3
<input type="checkbox"/> ____ General Education Global and Cultural Awareness Elective	3
<input type="checkbox"/> ____ General Education Lab Science Elective	4
<input type="checkbox"/> ____ General Education Social Science Elective	3
	16

**Spring Semester**

<input type="checkbox"/> ARTS 209 3-Dimensional Design	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ General Education History Elective	3
<input type="checkbox"/> ____ General Education Math or Science Elective	3-4
<input type="checkbox"/> ____ General Education Social Science Elective	3
	15-16

**TOTAL MINIMUM CREDITS: 60**

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



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

[ARTCDFAAA; CIP Code 24.0101]

### Associate in Arts (A.A.) – Transfer

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

#### Program Learning Outcomes

Students who have completed the program should be able to:

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

#### Program Contact

Jacqueline Sandro-Greenwell,  
Director of Fine Arts and Clay College  
[jgreenwe@rcsj.edu](mailto:jgreenwe@rcsj.edu)

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

#### FIRST YEAR – Fall Semester

<input type="checkbox"/> ARTS 105 Drawing I	3
<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <i>or</i> CSCI 110 Technology Literacy	2-3
<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ General Education Mathematics Elective	3-4
	<hr/> 14-17

#### Spring Semester

<input type="checkbox"/> ARTS 205 Drawing II	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ARTS 103 Art History I	3
<input type="checkbox"/> ____ General Education History Elective	3
<input type="checkbox"/> ____ General Education Lab Science Elective	4
	<hr/> 16

#### SECOND YEAR – Fall Semester

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ General Education Math or Science Elective	3-4
<input type="checkbox"/> ____ General Education Social Science Elective	3
<input type="checkbox"/> ____ General Education Global and Cultural Awareness Elective	3
	<hr/> 15-16

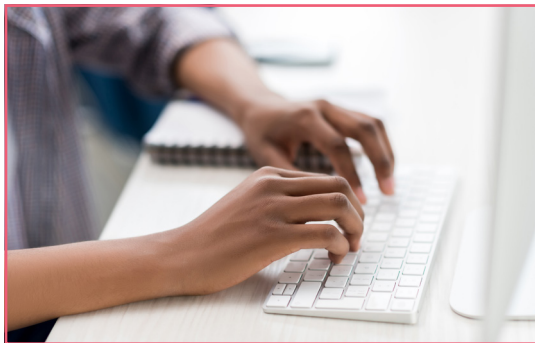
#### Spring Semester

<input type="checkbox"/> ARTS 129 2-Dimensional Design	3
<input type="checkbox"/> ____ General Education Social Science Elective	3
<input type="checkbox"/> ____ General Education History Elective	3
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ Program Elective <sup>1</sup>	3
	<hr/> 15

**TOTAL MINIMUM CREDITS: 60**

#### Program Electives<sup>1</sup>

ARTS 107 Painting I	3
ARTS 117 Introduction to Digital Photography	3
ARTS 125 Printmaking	3
ARTS 127 Sculpture I	3
COGA 115 Foundations of Computer Graphic Arts	3
CERS 101 Ceramics I	3



[ARTCLAA; CIP Code 24.0101]

### Associate in Arts (A.A.) – Transfer

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

#### Program Learning Outcomes

Students who have completed the program should be able to:

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

#### Program Contact

Marcela Savelski, Dean, Communication and Creative and Performing Arts  
 msaveslk@rcsj.edu

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

# Liberal Arts: Literature, A.A.

## FIRST YEAR – Fall Semester

<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <b>or</b> CSCI 110 Technology Literacy	2–3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> HIST ____ General Education History Elective	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective	3–4
<input type="checkbox"/> ____ General Education Humanities Elective (Foreign Language recommended for 6 Credits)	3
	14–17

## Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ General Education Humanities Elective (Foreign Language recommended for 6 Credits)	3
<input type="checkbox"/> ____ General Education Lab Science Elective	4
<input type="checkbox"/> ____ General Education Social Science Elective	3
	16

## SECOND YEAR – Fall Semester

<input type="checkbox"/> ____ General Education Mathematics <b>or</b> Lab Science Elective	3–4
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ Literature Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Literature Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Program Elective <sup>2</sup>	3
	15–16

## Spring Semester

<input type="checkbox"/> ____ General Education Social Science Elective	3
<input type="checkbox"/> ____ General Education Global and Cultural Awareness Elective	3
<input type="checkbox"/> HIST ____ General Education History Elective	3
<input type="checkbox"/> ____ General Education Literature Elective	3
<input type="checkbox"/> ____ Program Elective <sup>2</sup>	3
	15

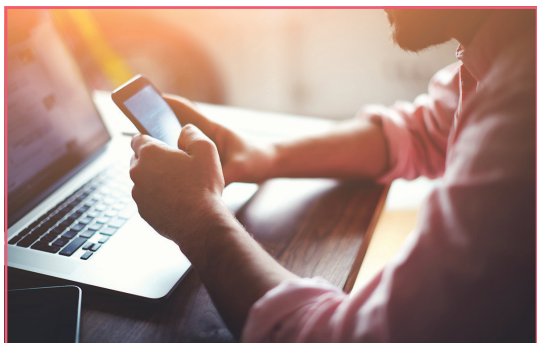
**TOTAL MINIMUM CREDITS: 60**

### Literature Electives Bank<sup>1</sup>

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

### Program Electives<sup>2</sup>

- Any Literature Course
- HIST 103 World History I
- HIST 104 World History II
- PHIL 101 Introduction to Philosophy
- RELG 101 Perspectives on Religion
- RELG 102 World Religions
- THEA 201 Theatre History



[ARTCDCAA; CIP Code 24.0101]

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

Prepares students to transfer to four-year colleges and universities to major in fields such as communications, speech, journalism, broadcasting, television, radio, writing, teaching and law. The student newspaper and the college’s programming on local cable TV and channel 9, provide hands-on opportunities to develop skills and explore careers.

**Program Learning Outcomes**

Students who have completed the program should be able to:

- Discuss mass communications and the role of the media
- Communicate effectively in a variety of media
- Demonstrate critical thinking and problem-solving skills in the areas of communications
- Locate, retrieve and critically evaluate information and information sources

**Program Contact**

Valerie Gouse, Associate Professor  
vgouse@rcsj.edu

# Liberal Arts: Strategic Digital Communications, A.A.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> COMM 102 Introduction to Communication	3
<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <b>or</b> CSCI 110 Technology Literacy	2-3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> COGA 103 Design, Type, and Color <b>or</b> COGA 115 Foundations of Computer Graphic Arts	3
<input type="checkbox"/> _____ General Education Mathematics Elective	3
	14-16

**Spring Semester**

<input type="checkbox"/> COMM 101 Introduction to Mass Media	3
<input type="checkbox"/> COMM 107 Writing for Radio, TV, & Media	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> _____ General Education Social Science Elective	3-4
	15-16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> COMM 103 Technical and Scientific Writing	3
<input type="checkbox"/> _____ General Education Humanities Elective (Foreign Lang. Recommended)	3
<input type="checkbox"/> _____ General Education Lab Science Elective	4
<input type="checkbox"/> _____ General Education Social Science Elective	3
<input type="checkbox"/> _____ Business Elective <sup>1</sup>	3
	16

**Spring Semester**

<input type="checkbox"/> COMM 104 Business Communication	3
<input type="checkbox"/> _____ Global and Cultural Awareness Elective	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> _____ General Education History Elective	3
<input type="checkbox"/> _____ General Education Social Science Elective	3
	15

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

<sup>1</sup> Students can take any 100 or 200 level business course that does not require a business prerequisite.

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



## 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](https://RCSJ.edu/EducationHumanities)

*Marisol P., Early Childhood Education*

### 4 course delivery methods:



*In-Person*



*Live Online*



*Hybrid*



*Traditional Online*

## Find Your Program

From History to Philosophy, Social Studies to Political Science, 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 the Future Educators Association 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, experiential learning opportunities, 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.



[ARTGAA; 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 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 should 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**

Paul Rufino, Dean Education and Humanities  
[prufino@rcsj.edu](mailto:prufino@rcsj.edu)

# Arts and Sciences, A.A.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH ____ Mathematics Elective <sup>1</sup>	3-4
<input type="checkbox"/> ____ General Education Social Science Elective	3
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ General Education History Elective	3
	15-17

**Spring Semester**

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

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ Free Elective <sup>1</sup>	3
<input type="checkbox"/> ____ General Education Global and Cultural Awareness Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Free Elective <sup>1</sup>	3
	16

**Spring Semester**

<input type="checkbox"/> SPEH 101 Oral Communication	3
<input type="checkbox"/> ____ General Education History Elective	3
<input type="checkbox"/> ____ General Education English Elective	3
<input type="checkbox"/> ____ Free Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Free Elective <sup>1</sup>	2-3
	14-15

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

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

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



[ARTGHOAA; 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 should 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**

Paul Rufino, Dean Education and Humanities  
[prufino@rcsj.edu](mailto:prufino@rcsj.edu)

# Arts and Sciences: History Option, A.A.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <sup>1</sup>	3–4
<input type="checkbox"/> ____ General Education Social Science Elective <sup>1</sup>	3
<input type="checkbox"/> ____ General Education Humanities Elective <sup>1</sup>	3
<input type="checkbox"/> HIST ____ General Education History Elective <sup>1</sup>	3
	15–16

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ____ General Education Humanities Elective <sup>1</sup>	3
<input type="checkbox"/> ____ General Education Social Science Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Program Elective <sup>1,2</sup>	3
<input type="checkbox"/> ____ Program Elective <sup>1,2</sup>	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> ____ General Education Humanities Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Program Elective <sup>1,2</sup>	3
<input type="checkbox"/> ____ General Education Global and Cultural Awareness Elective <sup>1,3</sup>	3
<input type="checkbox"/> ____ Program Elective <sup>1,2</sup>	3
	16

**Spring Semester**

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ Program Elective <sup>1,2</sup>	3
<input type="checkbox"/> ENGL ____ English Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Program Elective <sup>1,2</sup>	3
<input type="checkbox"/> ____ Free Elective <sup>1</sup>	2–3
	14–15

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

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

**Program Electives<sup>2</sup>**

- HIST 101 Western Civilization I
- HIST 102 Western Civilization II
- HIST 103 World History I
- HIST 104 World History II
- HIST 117 African-American History
- HIST 201 United States History I
- HIST 202 United States History II
- POLS 101 American Federal Government
- POLS 103 Introduction to Political Science
- POLS 201 Introduction to Comparative Politics
- POLS 206 Introduction to International Politics

<sup>3</sup> GEGR 102 Cultural Geography recommended.

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



[ARTGPOAA; 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 should 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**

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

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

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <sup>1</sup>	3-4
<input type="checkbox"/> ____ General Education Social Science Elective <sup>1</sup>	3
<input type="checkbox"/> PHIL 101 Introduction to Philosophy	3
<input type="checkbox"/> HIST ____ General Education History Elective <sup>1</sup>	3
	15-17

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ____ General Education Humanities Elective <sup>1</sup>	3
<input type="checkbox"/> ____ General Education Social Science Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Program Elective <sup>1,2</sup>	3
<input type="checkbox"/> ____ Free Elective <sup>1</sup>	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> ____ General Education Humanities Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Program Elective <sup>1,2</sup>	3
<input type="checkbox"/> ____ General Education Global and Cultural Awareness Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Program Elective <sup>1,2</sup>	3
	16

**Spring Semester**

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ Program Elective <sup>1,2</sup>	3
<input type="checkbox"/> ENGL ____ General Education English Elective <sup>1</sup>	3
<input type="checkbox"/> ____ Program Elective <sup>1,2</sup>	3
<input type="checkbox"/> ____ Free Elective <sup>1</sup>	2-3
	14-15

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

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

**Program Electives<sup>2</sup>**

- RELG 102 World Religions
- PHIL 102 Ethics
- PHIL 150 Critical Thinking
- PHIL 201 Philosophy and History of Science
- PHIL 204 Contemporary Moral Issues
- PHIL 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. ✦



[EDUCECEAAS; CIP Code 13.0101]

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

The rapidly growing preschool field of private and public day care, Head Start, nursery and public preschool centers has created numerous positions in a variety of settings for graduates of this program. Graduates are employed as group teachers in private childcare facilities, paraprofessionals in public schools, and as directors of private preschools and home day cares.

**Program Learning Outcomes**

Students who have completed the program should be able to:

- Distinguish and apply the well-known and influential educational theories to practices
- Design a developmentally appropriate classroom environment to meet the needs of young children
- Develop observation skills and apply those skills to a case study, develop language and literacy skill in young children
- Use the arts, sciences, and math in planning an integrated activity to broaden the child's knowledge base, solve problems and to help children relate to others
- Locate, retrieve and critically evaluate information and information sources related to the profession
- Evaluate and reflect upon their professional growth and development by creating a professional portfolio

**Program Contact**

Dr. Kathleen Felice, Program Coordinator,  
kfelice@rcsj.edu

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

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

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> EDUC 102 Principles of Early Childhood Education	3
<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> PSYC 103 Child Development & Learning	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> CSCI 110 Technology Literacy	2
	14-15

**Spring Semester**

<input type="checkbox"/> EDUC 109 Introduction to Special Education	3
<input type="checkbox"/> EDUC 203 Language Dev. & Emergent Literacy	3
<input type="checkbox"/> EDUC 209 Child Health, Safety & Nutrition	3
<input type="checkbox"/> ENGL 102 English Composition II <i>or</i> COMM 103 Technical and Scientific Writing <i>or</i> SPEH 101 Effective Speech	3
<input type="checkbox"/> PSYC 101 General Psychology	3
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> EDUC 201 Math, Science & Technology in Early Childhood Education	3
<input type="checkbox"/> EDUC 205 Pre-School Classroom Management	3
<input type="checkbox"/> MATH 101 Concepts of Mathematics <i>or</i> MATH 115 Structures of Mathematics I	3
<input type="checkbox"/> PSYC 102 Child Psychology	3
<input type="checkbox"/> _____ Early Childhood Education Elective	3
	15

**Spring Semester**

<input type="checkbox"/> EDUC 212 Books and Storytelling in Early Childhood Education	3
<input type="checkbox"/> EDUC 290 Early Childhood Professional	3
<input type="checkbox"/> PHYS 110 Principles of Science I	4
<input type="checkbox"/> _____ General Education Global and Cultural Awareness Elective	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
	16

**TOTAL MINIMUM CREDITS: 60**

**Early Childhood Education Electives**

- EDUC 103 Infant & Toddler Curr. & Dev.
- EDUC 113 Infant/Toddler Mental Health
- EDUC 204 Creative Learning Experiences



[EDUCECCERT; CIP Code 13.0101]

### Certificate Program

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

### Program Learning Outcomes

Students who have completed the program should be able to:

- Distinguish and apply the well-known and influential educational theories to practices
- Develop observation skills and apply those skills to a case study
- Develop language and literacy skill in young children
- Locate, retrieve and critically evaluate information and information sources

### Program Contact

Dr. Kathleen Felice, Program Coordinator,  
[kfelice@rcsj.edu](mailto:kfelice@rcsj.edu)

# Early Childhood Education, CERT

## FIRST YEAR – Fall Semester

<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <b>or</b> CISM 102 Applications on Microcomputer	3
<input type="checkbox"/> EDUC 102 Principles of Early Childhood Education	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> PSYC 103 Child Development & Learning	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
	15-16

## Spring Semester

<input type="checkbox"/> EDUC 203 Language Dev. & Emergent Literacy	3
<input type="checkbox"/> EDUC 204 Creative Learning Experiences	3
<input type="checkbox"/> EDUC 209 Child Health, Safety & Nutrition	3
<input type="checkbox"/> ENGL 102 English Composition II <b>or</b> COMM 103 Technical and Scientific Writing	3
<input type="checkbox"/> PSYC 101 General Psychology	3
	15

**TOTAL MINIMUM CREDITS: 30**

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



[EDUCAS; CIP Code 13.0101]

**Associate in Science (A.S.) – 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 Social Systems and Theories as a specific field of study.

**Program Learning Outcomes**

Students who have completed the program should be able to:

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

**Program Contact**

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

# Education, A.S.

## 3+1 option in Inclusive Education

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i>	
ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> PSYC 212 Psychology of the Adolescent <i>or</i>	
PSYC 102 Child Psychology <sup>1</sup>	3
<input type="checkbox"/> EDUC 101 History of American Education	3
<input type="checkbox"/> HIST ____ General Education U.S. History Elective <sup>2</sup>	3
<input type="checkbox"/> SOCI 102 Sociology of the Family	3
	15-16

**Spring Semester**

<input type="checkbox"/> ANTH 101 Cultural Anthropology	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> EDUC 105 Educational Technology	1
<input type="checkbox"/> ____ General Education Lab Science Elective <sup>3</sup>	4
<input type="checkbox"/> ARTS 101 Art Appreciation <i>or</i>	
MUSI 101 Music Appreciation <sup>4</sup>	3
	14

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ____ General Education Lab Science Elective <sup>3</sup>	4
<input type="checkbox"/> COMM 225 Why We Write: Writing for Elementary Students	3
<input type="checkbox"/> GEGR 102 Cultural Geography	3
<input type="checkbox"/> PSYC 203 Educational Psychology	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <sup>5</sup>	3-4
	16-17

**Spring Semester**

<input type="checkbox"/> ENGL ____ General Education English Literature Elective <sup>6</sup>	3
<input type="checkbox"/> EDUC 238 Disability as Diversity	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <sup>5</sup>	3-4
<input type="checkbox"/> EDUC 226 Principles and Pedagogies	
in the Inclusive Classroom & EDUC 227 Seminar: Principles and Pedagogies in the Inclusive Classroom <i>or</i>	
EDUC 220 Foundations of Inclusive Education <sup>7</sup>	3
	15-16

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

- <sup>1</sup> Students transferring to Rowan University Inclusive, Elementary, Early Childhood Education, or follow the 3+1 MUST take PSYC 102.
- <sup>2</sup> Students intending to transfer to Rowan University should take HIST 201.
- <sup>3</sup> Students intending to transfer to Rowan University should take BIOL107 and PHYS 101.
- <sup>4</sup> Students intending to transfer to Rowan University should take MUSI 105.
- <sup>5</sup> Students intending to transfer to Rowan University should take MATH 115 and MATH 117.
- <sup>6</sup> Students intending to transfer to Rowan University should take ENGL 103.
- <sup>7</sup> 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 EDUC 220. If students intend to transfer to Rowan University into either Elementary Education or Early Childhood Education programs, they should register for both EDUC 226 & 227.

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



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

The 3+1 Program 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 Program

### THIRD YEAR — Fall Semester

<input type="checkbox"/> EDUC 301 Literacy Pedagogy I	3
<input type="checkbox"/> EDUC 320 Clinical Experience I in Inclusive Education	1
<input type="checkbox"/> EDUC 315 Working with Families and Communities	3
<input type="checkbox"/> EDUC 310 Differentiating Instruction in the Inclusive Classroom	2
<input type="checkbox"/> EDUC 330 Trauma Informed practices to Promote Social and Emotional Development	3
<input type="checkbox"/> EDUC 305 Current Policy & Practice in ESL and Bilingual Education	3
	15

### Spring Semester

<input type="checkbox"/> EDUC 318 Positive Behavior Support Systems	3
<input type="checkbox"/> EDUC 327 Clinical Experience II in Inclusive Education	1
<input type="checkbox"/> EDUC 335 Social Studies Methods for the Inclusive Classroom	3
<input type="checkbox"/> EDUC 323 Assessment in Special and Inclusive Education	3
<input type="checkbox"/> EDUC 340 Science Inquiry & Methods for the Inclusive Classroom	3
<input type="checkbox"/> EDUC 302 Literacy Pedagogy II	2
<input type="checkbox"/> EDUC 345 Mathematics Strategies in the Inclusive Classroom	2
	17

### STEP 1

**START AT RCSJ**  
EDUCATION (A.S.)

### STEP 2

**END AT**  
**ROWAN UNIVERSITY**  
INCLUSIVE EDUCATION (B.A.)

**FOURTH YEAR** — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 Program 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

#### Master's

College Professor, Principal, Childcare Administrator



### Questions

#### About 3+1 Program:

Stephen Sweeney, Assistant Director,  
3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

#### About the program:

Kevin A. Kitchenman, Assistant Dean,  
Education and Humanities,  
[kkitchen@rcsj.edu](mailto:kkitchen@rcsj.edu)

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



# Educational Sign Language Interpreter, COA

[EDUCSLICOA; CIP Code 16.1603]

## 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 A. Kitchenman, Assistant Dean,  
Education and Humanities  
[kkitchen@rcsj.edu](mailto:kkitchen@rcsj.edu)

### FIRST YEAR — Fall Semester

<input type="checkbox"/> EDUC 241 Legal and Ethical Issues for Educational Interpreting	3
<input type="checkbox"/> EDUC 244 Child Development of Educational Interpreters	3
<input type="checkbox"/> EDUC 247 Curriculum Development and Methods of Instruction for Educational Interpreters	3
<input type="checkbox"/> EDUC 249 Deaf-Blind Interpreting Strategies for Educational Interpreters	3
<input type="checkbox"/> EDUC 252 Language Development for the Educational Interpreter	3
	15

**TOTAL MINIMUM CREDITS: 15**

### Program Notes

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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



[EDUCITECOA; CIP Code 13.0101]

### *Certificate of Achievement*

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

#### Program Contact

Dr. Kathleen Felice, Program Coordinator  
[kfelice@rcsj.edu](mailto:kfelice@rcsj.edu)

# *Infant/Toddler Education, COA*

#### FIRST YEAR – Fall Semester

<input type="checkbox"/> EDUC 102 Principles of Early Childhood Education	3
<input type="checkbox"/> PSYC 103 Child Development & Learning	3
<input type="checkbox"/> EDUC 103 Infant & Toddler Curriculum & Development	3
<input type="checkbox"/> EDUC 113 Infant/Toddler Mental Health	3
<input type="checkbox"/> EDUC 219 Infant/Toddler Field Experience	3
	15

**TOTAL MINIMUM CREDITS: 15**

#### Program Notes

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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



[ARTCAA; CIP Code 24.0101]

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

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

**Program Contact**

Paul Rufino, Dean Education and Humanities  
[prufino@rcsj.edu](mailto:prufino@rcsj.edu)

# Liberal Arts, A.A.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <b>or</b> CSCI 110 Information Technology	2-3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> ____ General Education History Elective	3
<input type="checkbox"/> ____ General Education Mathematics Elective	3-4
<input type="checkbox"/> ____ General Education Humanities Elective	3
	14-17

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ General Education Lab Science Elective	4
<input type="checkbox"/> ____ General Education Social Science Elective	3
<input type="checkbox"/> ____ Program Elective	3
	16

**SECOND YEAR – Fall Semester**

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

**Spring Semester**

<input type="checkbox"/> ____ General Education Global and Cultural Awareness Elective	3
<input type="checkbox"/> ____ General Education History Elective	3
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ Program Elective	3
<input type="checkbox"/> ____ Program Elective	3
	15

**TOTAL MINIMUM CREDITS: 60**

**Program Learning Outcomes**

Students who have completed the program will be able to:

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

**Program Electives**

Students will select a combination of 5 program courses across academic divisions Allied Health, STEM, and Business, Education and Humanities, and Communication and Creative and Performing Arts. Nine of the credits must be in one division. Students who elect a foreign language should select 6 credits in the same language.

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



[ARTCAEAA; CIP Code 24.0101]

### Associate in Arts (A.A.) – Transfer

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

#### Program Learning Outcomes

Students who have completed the program should be able to:

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

#### Program Contact

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

# Liberal Arts: Art Education, A.A.

### FIRST YEAR – Fall Semester

<input type="checkbox"/> ARTS 105 Drawing I	3
<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <b>or</b> CSCI 110 Information Technology	2–3
<input type="checkbox"/> EDUC 101 History of American Education	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> MATH 101 Concepts of Mathematics <b>or</b> MATH 115 Structures of Mathematics I	3
	<hr/> 14–16

### Spring Semester

<input type="checkbox"/> ARTS 103 Art History I	3
<input type="checkbox"/> CERS 101 Ceramics I	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> _____ General Education History Elective	3
	<hr/> 15

### SECOND YEAR – Fall Semester

<input type="checkbox"/> PSYC 102 Child Psychology	3
<input type="checkbox"/> EDUC 130 Human Exceptionality <b>or</b> _____ Program Elective	3
<input type="checkbox"/> _____ General Education Global and Cultural Awareness Elective	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> _____ General Education Lab Science Elective	4
	<hr/> 16

### Spring Semester

<input type="checkbox"/> PSYC 203 Educational Psychology	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> _____ General Education History Elective	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> _____ General Education Mathematics <b>or</b> Science Elective	3–4
	<hr/> 15–16

**TOTAL MINIMUM CREDITS: 60**

#### Program Electives

- ARTS 107 Painting I
- ARTS 127 Sculpture I
- CERS 102 Ceramics II
- PSYC 212 Psychology of the Adolescent

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



[ARTCEDAA; CIP Code 24.0101]

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

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

**Program Contact**

Dr. Kathleen Felice, Program Coordinator,  
kfelice@rcsj.edu

# Liberal Arts: Elementary/ Secondary Education, A.A.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <b>or</b>	
CISM 102 Applications on Microcomputer	3
<input type="checkbox"/> EDUC 101 History of American Education <sup>1,2</sup>	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b>	
ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> PSYC 101 General Psychology <sup>1,2</sup>	3
<input type="checkbox"/> FRSH 101 College and Career Planning	1
	13-14

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 101 Concepts of Mathematics	3
<input type="checkbox"/> PSYC 102 Child Psychology	3
<input type="checkbox"/> PSYC 203 Educational Psychology <sup>1,2</sup>	3
<input type="checkbox"/> PHYS 110 Principles of Science I	4
	16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> HIST 201 United States History I <b>or</b>	
HIST 202 United States History II	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> _____ General Education Literature Elective	3
<input type="checkbox"/> BIOL 107 Human Biology	4
<input type="checkbox"/> GEGR 102 Cultural Geography	3
	16

**Spring Semester**

<input type="checkbox"/> ARTS 101 Art Appreciation	3
<input type="checkbox"/> HIST 101 Western Civilization I <b>or</b>	
HIST 102 Western Civilization II	3
<input type="checkbox"/> MATH 115 Structures of Mathematics I (Elementary Majors) <sup>1</sup> <b>or</b>	
PSYC 212 Psychology of the Adolescent (Middle-Secondary Majors) <sup>2</sup>	3
<input type="checkbox"/> EDUC 130 Human Exceptionality <sup>1,2</sup>	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
	15

**TOTAL MINIMUM CREDITS: 60**

**Elementary Education Program (K-8) Requirements (15 credits)<sup>1</sup>**

- EDUC 101 History of American Education
- PSYC 102 Child Psychology
- PSYC 203 Educational Psychology
- EDUC 130 Human Exceptionality
- MATH 115 Structures of Mathematics I

**Secondary Education Program Requirements (15 credits)<sup>2</sup>**

- EDUC 101 History of American Education
- PSYC 102 Child Psychology
- PSYC 212 Psychology of the Adolescent
- PSYC 203 Educational Psychology
- EDUC 130 Human Exceptionality

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



[ARTCHAA; CIP Code 24.0101]

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

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

**Program Learning Outcomes**

Students who have completed the program should be able to:

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

**Program Contact**

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

# Liberal Arts: History, A.A.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> POLS 101 American Federal Government	3
<input type="checkbox"/> HIST 201 United States History I	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective	3-4
<input type="checkbox"/> ____ General Education Humanities Elective	3
	15-17

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> GEGR 101 World Geography	3
<input type="checkbox"/> HIST 202 United States History II	3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective	3-4
<input type="checkbox"/> ____ General Education Social Science Elective	3
<input type="checkbox"/> FRSH 101 College and Career Planning <i>or</i> BUSN 105 Personal and Professional Branding <i>or</i> Health and Physical Education Elective	1-3
	16-19

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ____ General Education Lab Science Elective	4
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> HIST ____ History Program Elective <sup>2</sup>	3
<input type="checkbox"/> ____ General Education Social Science Elective	3
<input type="checkbox"/> ____ Program Option Elective <sup>1</sup>	3
	16

**Spring Semester**

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ____ General Education Lab Science Elective	4
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> HIST ____ History Program Elective <sup>2</sup>	3
	13

**TOTAL MINIMUM CREDITS: 60**

**Program Electives<sup>1</sup>**

- HIST 102 Western Civilization II
- POLS 101 Introduction to Political Science

**History Electives Bank<sup>2</sup>**

- HIST 101 Western Civilization I
- HIST 103 World History I
- HIST 104 World History II
- HIST 113 Latin American History
- HIST 121 The Holocaust
- HIST 117 African American History

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



[EDUCHPERAS; 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 should 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 Contact**

Rob Valli, Program Coordinator  
rvalli@rcsj.edu

# Health, Physical Education and Recreation, A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 101 Concepts of Mathematics	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> NTRN 101 Nutrition	3
<input type="checkbox"/> HPER 214 Principles of Health and Physical Education	3
	15-16

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ____ ____ General Education Lab Science Elective <sup>1</sup>	4
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> HPER 211 Consumer Health Decisions	3
<input type="checkbox"/> EXSI 252 Foundation of Fitness	3
	16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> BIOL 105 Anatomy & Physiology I <i>or</i> BIOL 106 Anatomy & Physiology II	4
<input type="checkbox"/> EDUC 101 History of American Education	3
<input type="checkbox"/> PSYC 203 Educational Psychology	3
<input type="checkbox"/> ARTS 101 Art Appreciation <i>or</i> MUSI 101 Music Appreciation	3
<input type="checkbox"/> EXSI 233 Safety, First Aid, CPR, and Injury Protection	3
	16

**Spring Semester**

<input type="checkbox"/> GEGR 102 Cultural Geography	3
<input type="checkbox"/> PSYC 212 Psychology of the Adolescent	3
<input type="checkbox"/> HPER 245 Motor Development and Motor Learning	3
<input type="checkbox"/> HPER 257 Pedagogy & Instructional Practices in Health & Physical Education	3
<input type="checkbox"/> ____ ____ Program Elective <sup>2</sup>	1-3
	13-15

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

<sup>1</sup> Chemistry, Biology or Physics recommended.

<sup>2</sup> HPER 205 Technology in Health & Physical Education is recommended for transfer to Rowan University.

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



[EDUCNDICOA; CIP Code 30.2501]

### *Certificate of Achievement*

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

#### Program Contact

Kevin A. Kitchenman, Assistant Dean,  
Education and Humanities  
[kkitchen@rcsj.edu](mailto:kkitchen@rcsj.edu)

Dr. Anthony Weaver, Education Advisor,  
[aweaver4@rcsj.edu](mailto:aweaver4@rcsj.edu)

# *Neurodiversity and Inclusion, COA*

#### FIRST YEAR — Fall Semester

<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> PSYC 102 Child Psychology	3
<input type="checkbox"/> PSYC 203 Educational Psychology	3
<input type="checkbox"/> EDUC 238 Human Exceptionality	3
<input type="checkbox"/> EDUC 207 Foundational Practices: Supporting Children Using the Positive Behavior Support System	3
<input type="checkbox"/> EDUC 218 Foundations of Trauma Informed Practices that Support Social Emotional Development	3
	18

**TOTAL MINIMUM CREDITS: 18**

#### Program Notes

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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



[EDUCSSPSAA; CIP Code 13.1318]

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

This program provides the general education foundation and program content required for students who are planning to transfer to a baccalaureate degree in a Secondary Education Social Studies Certification program.

(Students who plan to transfer to Stockton University will enter their third year with all courses transferring seamlessly)

**Program Learning Outcomes**

Students who have completed the program should be able to:

- Communicate effectively in writing and orally
- Demonstrate an understanding of various scientific, artistic, social, and historical ideas and perspectives
- Demonstrate foundational knowledge of political science
- Demonstrate a basic understanding of the teaching profession, educational systems, and pedagogy

**Program Contact**

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

# Social Studies Education/ Political Science, A.A.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> _____ General Education Lab Science Elective	4
<input type="checkbox"/> PSYC 212 Psychology of the Adolescent	3
<input type="checkbox"/> HIST 201 United States History I	3
<input type="checkbox"/> POLS 103 Introduction to Political Science	3
	16-17

**Spring Semester**

<input type="checkbox"/> POLS 101 American Federal Government	3
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 105 Intermediate Algebra	4
<input type="checkbox"/> POLS 201 Introduction to Comparative Politics	3
<input type="checkbox"/> EDUC 130 Human Exceptionality	3
	16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> PCAD 120 Public Administration	3
<input type="checkbox"/> HIST 101 Western Civilization I	3
<input type="checkbox"/> _____ Free Elective <sup>2</sup>	1-3
<input type="checkbox"/> MATH ____ General Education Mathematics Elective <sup>1</sup>	3-4
<input type="checkbox"/> PSYC 203 Educational Psychology	3
	13-16

**Spring Semester**

<input type="checkbox"/> POLS 206 Introduction to International Politics	3
<input type="checkbox"/> ECON 101 Principles of Economics (Macro)	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> HIST 117 African-American History	3
<input type="checkbox"/> HIST 103 World History I	3
	15

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

- <sup>1</sup> Students intending to transfer to Stockton University for Social Studies Education must take MATH 103, Statistics
- <sup>2</sup> Students intending to transfer to Stockton University for Social Studies Education must take HIST 201, US History I

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

*Joseph F., Radiography*

### 4 course 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.



[NALHCMACO; CIP Code 51.0801]

**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.

**Program Contact**

Stella Barber, EdD., MSN, RN, CNE,  
Associate Dean, Clinical Studies in Nursing  
& Health Professions  
sbarber5@rcsj.edu

# Certified Clinical Medical Assistant (CCMA), COA

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> CCMA 101 Foundations of Medical Assisting	3
<input type="checkbox"/> CCMA 107 Medical Assistants in the Practice Lab I	1
<input type="checkbox"/> CCMA 103 Structure of the Human Body I	2
<input type="checkbox"/> HPRF 140 Biomedical Ethics	3
<input type="checkbox"/> NTRN 102 Nutrition for Health Professions	3
<input type="checkbox"/> EXSI 105 Healthcare Provider Emergency Response with BLS Certification	1
	13

**Spring Semester**

**Part A: Ten Weeks**

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

**Part B: Five Weeks**

<input type="checkbox"/> CCMA 120 ECG/EKG Clinical	1
<input type="checkbox"/> CCMA 128 Phlebotomy Clinical	1
<input type="checkbox"/> CCMA 131 CCMA Capstone Experience	2
	4

**TOTAL MINIMUM CREDITS: 29**

**Program Notes**

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/SelectiveAdmissions](http://RCSJ.edu/SelectiveAdmissions)

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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



[NALHDMSAAS; CIP Code 51.0910]

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

The Diagnostic Medical Sonography program prepares students for a rewarding career as a skilled sonographer. Sonographers utilize high-frequency sound waves to visualize and assess various anatomical structures within the human body. As part of their responsibilities, sonographers meticulously capture high-quality diagnostic images and provide insightful interpretations of their findings. This comprehensive program prepares students to excel as entry-level sonographers, emphasizing proficiency in abdominal, gynecological, and obstetrical scanning. A central focus lies on delivering optimal patient care within the context of our culturally diverse communities.

**Program Learning Outcomes**

Students who have completed the program should be able to:

- Correlate patient history to construct a comprehensive overview
- Pass the American Registry for Diagnostic Medical Sonographers (ARDMS) upon graduation
- Perform appropriate procedures and record anatomic & pathologic data for interpretation
- Perform quality diagnostic exams and optimize images using ultrasound equipment features.
- Appropriately modify protocols based on individualized patient circumstances and sonographic findings.
- Utilize professional communication skills when interacting with patients and members of the healthcare team
- Integrate legal and ethical concepts into the practice of sonography

**Program Contact**

Nickolas Raddi, Advisor  
nraddi@rcsj.edu

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

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

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> BIOL 105 Anatomy & Physiology I	4
<input type="checkbox"/> PHYS 123 General Physics I	4
<input type="checkbox"/> HPRF 104 Patient Care	1
<input type="checkbox"/> DMSI 101 Introduction to Medical Imaging	1
<input type="checkbox"/> DMSI 104 Cross Section Anatomy	2
	15–16

**Second Semester – Spring**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> BIOL 106 Anatomy & Physiology II	4
<input type="checkbox"/> DMSI 107 Ultrasound Physics	3
<input type="checkbox"/> DMSI 110 Abdominal Sonography I	2
<input type="checkbox"/> DMSI 215 Sonographic Interpretations I	2
<input type="checkbox"/> DMSI 112 Scan Lab I	1
	15

**Third Semester – Summer**

<input type="checkbox"/> DMSI 118 Introduction to Clinical Practicum	2
<input type="checkbox"/> DMSI 122 Scan Lab II	1
<input type="checkbox"/> DMSI 218 Vascular Ultrasound	1
<input type="checkbox"/> PSYC 101 General Psychology	3
	7

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> DMSI 120 Abdominal Sonography II	3
<input type="checkbox"/> DMSI 130 Clinical Practicum I	8
<input type="checkbox"/> DMSI 224 Scan Lab III	1
<input type="checkbox"/> DMSI 209 OB/GYN Sonography I	3
	15

**Fifth Semester – Winter**

<input type="checkbox"/> DMSI 230 Clinical Practicum II	2
	2

**Sixth Semester – Spring**

<input type="checkbox"/> DMSI 210 OB/GYN Sonography II	3
<input type="checkbox"/> DMSI 240 Clinical Practicum III	8
<input type="checkbox"/> DMSI 250 Scan Lab IV	1
<input type="checkbox"/> DMSI 255 Seminars	1
<input type="checkbox"/> DMSI 235 Sonographic Interpretations II	2
	15

**TOTAL MINIMUM CREDITS: 69**

**Program Notes**

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

# OLD CURRICULUM TEACHOUT

## *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)	2
	<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 MINIMUM CREDITS: 60**

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



[EXERAS; CIP Code 31.0505]

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

This program is designed for those students who are interested in a career within the health and fitness industry. Designed to equip students with both theoretical knowledge and practical skills, this program prepares graduates for entry-level roles in fitness and wellness, as well as for further study in exercise science and related fields.

#### Program Learning Outcomes

Students who have completed the program should be able to:

- Analyze physiological responses and adaptations of the human body to various forms of physical activity, applying knowledge to optimize performance and safety in fitness programming
- Conduct fitness assessments and develop individualized health and fitness programs tailored to diverse backgrounds, fitness levels, and goals, integrating proper exercise techniques and progression principles
- Demonstrate effective client interaction skills, including health appraisal, goal setting, and motivational strategies, while adhering to professional and ethical standards in health and fitness environments
- Apply foundational knowledge of CPR, first aid, nutrition, and stress management to support client health, safety, and performance in fitness and wellness settings.

#### Program Contact

Timothy Schmitz, MS, CSCS  
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.

## 3+1 option in Fitness Management

### FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> HPER 240 Introduction to Health, Physical Education, and Recreation	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> NTRN 101 Nutrition	3
	16–17

### Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> BIOL 105 Anatomy and Physiology I	4
<input type="checkbox"/> MATH 103 Statistics	3
<input type="checkbox"/> EXSI 116 Foundations of Human Performance and Movement	2
<input type="checkbox"/> ____ Program Elective	3
	15

### SECOND YEAR – Fall Semester

<input type="checkbox"/> BIOL 106 Anatomy and Physiology II	4
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> HPER 245 Motor Development & Motor Learning	3
<input type="checkbox"/> EXSI 200 Professional Practices in Health and Fitness	1
<input type="checkbox"/> ____ Program Elective	3
	14

### Spring Semester

<input type="checkbox"/> EXSI 233 Safety, First Aid, CPR, and Prevention of Athletic Injuries	3
<input type="checkbox"/> ____ General Education Humanities Elective <sup>1</sup>	3
<input type="checkbox"/> SOCI 101 Principles of Sociology <i>or</i> SOCI 102 Sociology of the Family <sup>2</sup>	3
<input type="checkbox"/> ____ Program Elective	3
<input type="checkbox"/> ____ Program Elective	3–4
	15–16

**TOTAL MINIMUM CREDITS: 60**

#### Program Notes

<sup>1</sup> ARTS 101 Art Appreciation or MUSI 101 Music Appreciation recommended

<sup>2</sup> Recommended for transfer to Rowan University

#### Health and Wellness/Public Health Electives

- HPER 170 Stress Management
- HPER 201 Health and Wellness
- HPER 211 Consumer Health Decisions
- EXSI 252 Foundations of Fitness

*Recommended for transfer to Rowan University's B.S., Public Health and Wellness or B.A., Wellness Management*

#### Human Performance Electives

- EXSI 205 Strength and Conditioning Techniques
- EXSI 209 Applied Strength Assessment and Program Design
- EXSI 215 Cardiovascular Fitness Assessment and Program Design
- BIOL 102 General Biology II OR CHEM 101 General Chemistry I

*Recommended for transfer to Rowan University's B.S., Exercise Science or Fitness Management 3+1*



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

The 3+1 Program 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 Program

### THIRD YEAR — Fall Semester

<input type="checkbox"/> EXSI 300 Kinesiology	3
<input type="checkbox"/> PSYC 300 Introduction to Sport & Exercise Psychology	3
<input type="checkbox"/> BUSN ____ Business Elective	3
<input type="checkbox"/> HPER 170 Stress Management <b>or</b> ____ Free Elective	3
<input type="checkbox"/> ____ Free Elective	3
	15

### Spring Semester

<input type="checkbox"/> EXSI 305 Exercise Physiology with Laboratory	4
<input type="checkbox"/> HPER 238 Principles of Coaching	2
<input type="checkbox"/> ISCC 211 Internship Career Connections	3
<input type="checkbox"/> PSYC 308 Social Psychology of Sport <b>or</b> ____ Free Elective	3
<input type="checkbox"/> ____ Free Elective	3
	15

### STEP 1

**START AT RCSJ**  
EXERCISE SCIENCE (A.S.)

### STEP 2

**END AT ROWAN UNIVERSITY**  
FITNESS MANAGEMENT (B.A.)

**FOURTH YEAR** — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 Program 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 Program:

Stephen Sweeney, Assistant Director,  
3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

[RCSJ.edu/3plus1](http://RCSJ.edu/3plus1)



[HEALAAS; 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 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.

**Program Learning Outcomes**

Students who have completed the program should be able to:

- Demonstrate oral and written communication to inform health knowledge to the public.
- Interpret ethical principles and values in the healthcare setting.
- Demonstrate the relationship between disease prevention and health promotion.

**Program Contact**

Nickolas Raddi, Advisor  
nraddi@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 Science, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> BIOL 105 Anatomy & Physiology I	4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> _____ Math, Science, <b>or</b> Technological General Education Elective	3
	13-14

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> BIOL 106 Anatomy & Physiology II	4
<input type="checkbox"/> _____ General Education Electives	6
	13

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> _____ Health Science Electives	17
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**Forth Semester – Spring**

<input type="checkbox"/> _____ General Education Electives	17
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**TOTAL MINIMUM CREDITS: 60**

**Program Electives**

Degree requires minimum of 16 Health Science course credits and a final grade of “C” or better in health-related courses.

**Health Science Electives**

HPRF 101, HPRF 102, HPRF 104, HPRF 107, HPRF 140, HPRF 141, EXSI 105, NTRN 101, NTRN 102, HPER 170, HPER 201, HPER 211

**Diagnostic Medical Sonography (DMS) Electives**

MATH 114, MATH 110, PHYS 123, HPRF 140, HPRF 104, HPRF 102, EXSI 105, NTRN 101, NTRN 102

**Nuclear Medicine Technology (NMTI) Electives**

MATH 110, MATH 114, HPRF 102, CHEM 101, EXSI 105, HPRF 107, PHYS 123, NTRN 101, NTRN 102, HPRF 104, HPRF 140, MATH 103, MATH 203

**Radiography (RADT) Electives**

EXSI 105, MATH 114, MATH 110, MATH 108, MATH 103

**Physical Therapist Assistant (PTAS) Electives**

EXSI 105, MATH 108, HPRF 102, EXSI 233, HPRF 104, NTRN 101, NTRN 102, HPER 170, HPER 201, HPER 211, EXSI 252, EXSI 205, EXSI 209, EXSI 215

**Generic Nursing (NURS) Electives**

NURS 102, NURS 107, SPEH 101, NTRN 101, NTRN 102, BIOL 203, PSYC 211, SOCI 101, EXSI 105, MATH 103, NURS 126

**Practical Nursing (PRAC) Electives**

NURS 102, NURS 107, EXSI 105, PRAC 105, NTRN 101, NTRN 102, BIOL 203

**Certified Clinical Medical Assistant (CCMA) Electives**

NURS 102, NURS 107, EXSI 105, NTRN 101, HPRF 104, HPRF 101, HPRF 140, HPRF 141

**Respiratory Therapy (with Rowan University) Electives**

EXSI 105, MATH 114, HPRF 102, MATH 103, HPRF 101, CHEM 101, HPRF 140, HPRF 104, NTRN 102, BIOL 203, CSCI 121, MATH 130, CHEM 201, CHEM 202, SPEH 101



[NALHNMTAAS; 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**

Nickolas Raddi, Advisor  
nraddi@rcsj.edu

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

# Nuclear Medicine Technology, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> BIOL 105 Anatomy & Physiology I	4
<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> PSYC 101 General Psychology	3
	14–15

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> BIOL 106 Anatomy & Physiology II	4
<input type="checkbox"/> PHYS 123 General Physics I	4
<input type="checkbox"/> HPRF 107 Cross Sectional Anatomy	2
	13

**Third Semester – Summer (first 7 weeks)**

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

**Third Semester – Summer (second 7 weeks)**

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

**SECOND YEAR – Fall Semester**

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

**Spring Semester**

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

**TOTAL MINIMUM CREDITS: 60**

**Program Learning Outcomes**

Students who have completed the program should be able to:

- 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
- Demonstrate knowledge by applying entry level competencies of clinical imaging procedures, instrumentation, radiopharmacy and radiation safety and biology in the clinical environment
- 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](https://www.rcsj.edu/enroll) and complete the interest form. ✦



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

[NALHLPNAAS; CIP Code 51.3801]

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

The program combines general education with nursing courses to prepare currently Licensed Practical Nurses (LPN) for entry-level Registered Nursing (RN) practice. Upon successful completion of the Nursing program, students are eligible to apply for state licensure and 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

Nickolas Raddi, Advisor  
nraddi@rcsj.edu

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

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> BIOL 105 Anatomy & Physiology I	4
<input type="checkbox"/> PSYC 101 General Psychology	3
	10-11

### FIRST YEAR – Fall 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
	7

### Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> BIOL 106 Anatomy & Physiology II	4
<input type="checkbox"/> NURS 120 Nursing II	9
<input type="checkbox"/> NURS 121 Nursing Lab II	1
	17

### SECOND YEAR – Fall Semester

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

### Spring Semester

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

**TOTAL MINIMUM CREDITS: 60**

### Program Notes

At the completion of this program, graduates are eligible for the third year of 3+1 in Nursing at Rowan. See page 114

### 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." ([www.bls.gov/ooh/healthcare/registered-nurses.htm](http://www.bls.gov/ooh/healthcare/registered-nurses.htm))

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

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

### Special Admission Requirements

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

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



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

## 3+1 option in Nursing

[NALHNURAAS; CIP Code 51.3801]

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

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 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

Nickolas Raddi, Advisor  
[nraddi@rcsj.edu](mailto:nraddi@rcsj.edu)

#### FIRST YEAR – Fall Semester

<input type="checkbox"/> <input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> BIOL 105 Anatomy and Physiology I	4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> NURS 110 Nursing I	6
<input type="checkbox"/> NURS 111 Nursing Lab I	1
	17–18

#### Spring Semester

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

#### SECOND YEAR – Fall Semester

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

#### Spring Semester

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

**TOTAL MINIMUM CREDITS: 60**

#### 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.” ([www.bls.gov/ooh/healthcare/registered-nurses.htm](http://www.bls.gov/ooh/healthcare/registered-nurses.htm))

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

## *Nursing (NURS), A.A.S., continued*

### Special Admission Requirements

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

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



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

The 3+1 Program 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 Program

### THIRD YEAR — Fall Semester

<input type="checkbox"/> ____ Fine Arts Elective	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> NURS 303 Comprehensive Health Assessment	3
<input type="checkbox"/> ____ General Education Literature Elective	3
<input type="checkbox"/> ____ General Education Elective	3
	15

### Spring Semester

<input type="checkbox"/> NURS 305 Nursing Informatics	3
<input type="checkbox"/> NURS 308 Topics in Healthcare Ethics	3
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> MATH 103 Statistics	3
<input type="checkbox"/> ____ Free Elective	3
	15

### STEP 1

**START AT RCSJ**  
NURSING GENERIC  
PROGRAM (A.A.S.)

### STEP 2

**END AT**  
**ROWAN UNIVERSITY**  
NURSING (B.S.)

**FOURTH YEAR** — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 Program 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 Program:

Stephen Sweeney, Assistant Director,  
3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

[RCSJ.edu/3plus1](http://RCSJ.edu/3plus1)



# Nutrition, A.S.

[HEALNUTAS; 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 have completed the program should 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, MA, RD, LDN, CDES  
svalente@rcsj.edu

### FIRST YEAR – Fall Semester

<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> BIOL 105 Anatomy & Physiology I	4
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> NTRN 105 Introduction to Nutrition Professions	3
	<hr/> 14-15

### Spring Semester

<input type="checkbox"/> CHEM 102 General Chemistry II	4
<input type="checkbox"/> BIOL 106 Anatomy & Physiology II	4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> ENGL 102 English Composition II	3
	<hr/> 14

### SECOND YEAR – Fall Semester

<input type="checkbox"/> NTRN 102 Nutrition for Health Professions	3
<input type="checkbox"/> CHEM 201 Organic Chemistry I	4
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> _____ Free Elective	3
	<hr/> 17

### Spring Semester

<input type="checkbox"/> ANTH 101 Cultural Anthropology	3
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> BIOL 102 General Biology II	4
<input type="checkbox"/> _____ General Education Humanities Elective (ARTS 101 <b>or</b> MUSI 101 recommended)	3
<input type="checkbox"/> _____ HPRF Elective	2-3
	<hr/> 15-16

**TOTAL MINIMUM CREDITS: 60**

### Program Notes

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

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



[NALHPTAAAS; 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 Goals**

- 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.
- Program graduates will value life-long learning and commitment through continued education and professional development.
- The program will prepare graduates to deliver safe, ethical, and effective physical therapy services to the diverse surrounding community.
- Program faculty will provide instruction based on current evidence-based practice within an innovative and supportive learning environment.

**Program Contact**

Eileen Doyle, PTA,MS  
edoyle@rcsj.edu

# Physical Therapist Assistant, A.A.S.

**FIRST YEAR – Summer Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 108 College Geometry	3
<input type="checkbox"/> BIOL 105 Anatomy and Physiology I	4
<input type="checkbox"/> PSYC 101 General Psychology	3
	13-14

**Second Semester – Fall Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> BIOL 106 Anatomy and Physiology II	4
<input type="checkbox"/> PTAS 103 Introduction to PT Assisting	3
<input type="checkbox"/> PTAS 108 Therapeutic Exercise	2
<input type="checkbox"/> PTAS 110 Kinesiology and Measurement I	3
<input type="checkbox"/> PTAS 115 Patient Care for the PTA	2
	17

**Third Semester – Spring Semester**

<input type="checkbox"/> PTAS 105 Pathophysiology for the PTA	2
<input type="checkbox"/> PTAS 120 Kinesiology and Measurement II	3
<input type="checkbox"/> PTAS 125 Patient Care for the PTA II	3
<input type="checkbox"/> PTAS 203 Biophysical Agents	3
	11

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> PTAS 205 Orthopedics for the PTA	2
<input type="checkbox"/> PTAS 211 Clinical Experience I	3
<input type="checkbox"/> PTAS 213 Geriatrics and Special Populations	2
<input type="checkbox"/> PTAS 217 Cardiovascular and Pulmonary PT	3
<input type="checkbox"/> PTAS 202 Lifespan Neurorehabilitation	5
	15

**Fifth Semester – Spring Semester**

<input type="checkbox"/> PTAS 221 Clinical Experience II	5
<input type="checkbox"/> PTAS 231 Clinical Experience III	5
<input type="checkbox"/> PTAS 245 Seminar in PT Professionalism	2
	12

**TOTAL MINIMUM CREDITS: 88**

**Program Information**

Students receive acceptance into the program once, yearly, for the Summer semester. Petitions for entry into the program will be made available to students during the preceding Spring/Summer semester. Students should contact their advisor to clarify four-year degree transfer requirements and refer to the College catalog for course pre-requisites.

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.

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

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; telephone: 703-706-3245; email: [accreditation@apta.org](mailto:accreditation@apta.org); website: <http://www.capteonline.org>. If needing to contact the program directly, please call 856-415-2179 or email [edoyle@rcsj.edu](mailto:edoyle@rcsj.edu).

## *Physical Therapist Assistant, A.A.S., continued*

### Program Learning Outcomes

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

1. Exhibit professional behaviors in the role as a responsible physical therapist assistant by providing safe, ethical, and legal care while working under the direction and supervision of a licensed physical therapist.
2. Demonstrate entry-level competency in all required intervention skills of a PTA and provide proficient care based on the plan of care developed by the physical therapist.
3. Communicate effectively with patients/clients, caregivers, family members, members of the health care team, payers, and policymakers through written, verbal, and non-verbal means.
4. Compose accurate documentation in the health record to comply with facility and payer regulations consistent with the health care delivery system.
5. Recognize healthcare disparities and social determinants of health with the delivery of physical therapy services.
6. Participate in career development and lifelong learning opportunities to remain contemporary within an ever-changing healthcare environment.

### Special Program Admission Requirements

Physical Therapist Assistant is a selective admission program. Students must be accepted into the program prior to registering for 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 courses, in the PTA program of study including General Education and Science courses and students must maintain a cumulative GPA of 2.50 or higher [as per the current institutional grading scale].

Refer to the course description section of this catalog for prerequisite and co-requisite course requirements. The most up-to-date application information is on the College's website at [RCSJ.edu/SelectiveAdmissions](http://RCSJ.edu/SelectiveAdmissions).

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

# OLD CURRICULUM TEACHOUT

## *Physical Therapist Assistant, A.A.S.*

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 115 College Geometry	3
	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
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**Fall 2 - 7 weeks**

<input type="checkbox"/> BIO 106 Anatomy and Physiology II	4
	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
	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
	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
	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
	13

**TOTAL MINIMUM CREDITS: 60**

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



[NALHPNCERT; CIP Code 51.3901]

### Academic Certificate Program

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

#### Program Learning Outcomes

At the completion of this program of study, the student will demonstrate:

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

#### Program Contact

Nickolas Raddi, Advisor  
nraddi@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 YEAR – Fall Semester

<input type="checkbox"/> BIOL 106 Anatomy & Physiology I	4
<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> PRAC 110 Practical Nursing I	4
<input type="checkbox"/> PRAC 111 Practical Nursing Lab	1
<input type="checkbox"/> PRAC 120 Practical Nursing II	3
	15-16

### Spring Semester

<input type="checkbox"/> BIOL 107 Anatomy & Physiology II	4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> PRAC 130 Practical Nursing III	3
<input type="checkbox"/> PRAC 140 Practical Nursing IV	5
	15

**TOTAL MINIMUM CREDITS: 30-36**

#### Program Notes

Academic Certificates must be 30-36 credits

#### 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.



[NALHRADAAS; CIP Code 51.0907]

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

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

**Program Learning Outcomes**

Students who have completed the program should be able to:

- Students will demonstrate professionalism and clinical competence, ensuring the comfort, dignity, and safety of patients while maintaining ethical standards and professional conduct
- Students will demonstrate effective patient care with professionalism
- Students will position patients correctly for a variety of exams
- Students will display effective communication skills with a diverse population, using clear, respectful, and professional language to engage with patients, peers, and other healthcare professionals
- Students will communicate effectively in the didactic setting
- Students will communicate effectively in the clinical agency
- Students will implement safe practices using critical thinking as demonstrated by effective clinical reasoning
- Students will adapt standard procedures for non-routine patients
- Students will critique images for optimal diagnostic quality

**Program Contact**

Joy MacMahan, RTLRS, MEd  
jmacmah2@rcsj.edu

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# Radiography, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> BIOL 105 Anatomy & Physiology I	4
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> RADT 101 Introduction to Radiography Science	3
<input type="checkbox"/> RADT 102 Rad Procedures I	3
<input type="checkbox"/> RADT 103 Clin Prac and Image Evaluation I	2
<input type="checkbox"/> RADT 104 Radiographic Exposure I	2
	17-18

**Spring Semester**

<input type="checkbox"/> BIOL 106 Anatomy & Physiology II	4
<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <b>or</b> _____ Computer Science Elective	3
<input type="checkbox"/> RADT 106 Radiographic Exposure II	2
<input type="checkbox"/> RADT 107 Radiographic Procedures II	3
<input type="checkbox"/> RADT 110 Clinical Pract & Image Evaluation II	2
<input type="checkbox"/> RADT 121 Radiation Protection Biology	3
	17

**Summer Semester**

<input type="checkbox"/> RADT 111 Clin Practicum Image III	2
<input type="checkbox"/> RADT 200 Clinical Practicum and Image Evaluation VI	2
	4

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ENGL 102 English Composition II <b>or</b> COMM 103 Technical and Scientific Writing	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> RADT 201 Rad Procedures III	3
<input type="checkbox"/> RADT 202 Clinical Practicum IV	3
<input type="checkbox"/> RADT 220 Equipment Operation & Maintenance I	2
<input type="checkbox"/> _____ General Education Humanities Elective	3
	17

**Spring Semester**

<input type="checkbox"/> RADT 205 Radiographic Procedures IV	3
<input type="checkbox"/> RADT 206 Clinical Practicum VI	3
<input type="checkbox"/> RADT 221 Equipment Operation & Maintenance II	2
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> MATH _____ General Education Mathematics Elective (Excluding MATH 101)	3-4
	14-15

**TOTAL MINIMUM CREDITS: 69**



DIVISION OF  
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*Elenna B., Biology*

**4 course delivery methods:**



*In-Person*



*Live Online*



*Hybrid*



*Traditional Online*

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[AGRIBAAS; CIP Code 01.0101]

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

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

**Program Learning Outcomes**

Students who have completed the program should be able to:

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

# Agribusiness, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> AGRI 105 Introduction to Agricultural Sciences	3
<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> AGRI 209 Introduction to Soil Science	4
<input type="checkbox"/> _____ General Education Global & Cultural Awareness Elective	3
	14

**Spring Semester**

<input type="checkbox"/> ACCT 101 Accounting I	4
<input type="checkbox"/> BUSN 101 Introduction to Business	3
<input type="checkbox"/> CSCI 101 Introduction to Microcomputers <b>or</b> CISM 102 Applications on Microcomputer	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> _____ Program Elective <sup>1</sup>	3-4
	16-18

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> AGRI 106 Plant Science	4
<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> BUSN 250 Principles of Marketing	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> _____ General Education Social Science Elective	3
	17

**Spring Semester**

<input type="checkbox"/> AGRI 114 Internship	1
<input type="checkbox"/> BUSN 109 Business Law I	3
<input type="checkbox"/> BUSN _____ Business (BUSN) Program Elective	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> _____ General Education Mathematics Elective	3
	13

**TOTAL MINIMUM CREDITS: 60**

**Program Electives<sup>1</sup>**

BUSN 200 Principles of Management	3
BUSN 238 Principles of Advertising	3
BUSN 263 Entrepreneurial Business	3
BUSN 201 Small Business Management	3
COMM 104 Business Communication	3
AGRI 203 Fruit Production (Spring)	3
AGRI 206 Vegetable Production (Spring)	3
AGRI 207 Agricultural Pest Control and Identification (Spring)	4
AGRI 107 Plant Propagation (Spring)	3
AGRI 108 Herbaceous Plants (Spring)	3
AGRI 211 Greenhouse Management	4

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[AGRIAS; CIP Code 01.0000]

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

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

#### Program Learning Outcomes

Students who have completed the program should be able to:

- Apply the knowledge of anatomy and physiology of vascular plants
  - Apply the principles of the general sciences towards the production and maintenance of a variety of plants
  - Select an appropriate medium or site selection for a variety of agricultural products
  - Locate, retrieve and critically evaluate information and information sources.
- Employment Opportunities Greenhouse production, nursery production, orchard and garden center management, or sales for retail and wholesale companies

# Agriculture, A.S.

## FIRST YEAR – Fall Semester

<input type="checkbox"/> AGRI 105 Intro to Agricultural Sciences	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> CSCI 110 Technology Literacy	2
<input type="checkbox"/> HIST ____ General Education History Elective	3
	<hr/> 15-16

## Spring Semester

<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> MATH 110 Algebra & Trigonometry	3
<input type="checkbox"/> ____ General Education Social Science Elective	3
	<hr/> 16

## SECOND YEAR – Fall Semester

<input type="checkbox"/> CHEM 102 General Chemistry II	4
<input type="checkbox"/> AGRI 106 Plant Science	4
<input type="checkbox"/> AGRI 209 Introduction to Soil Science	4
<input type="checkbox"/> ____ General Education Social Science <b>or</b> Humanities Elective	3
	<hr/> 16

## Spring Semester

<input type="checkbox"/> BIOL 102 General Biology II	4
<input type="checkbox"/> ECON 102 Principles of Economics (Micro)	3
<input type="checkbox"/> AGRI ____ AGRI Program Elective	3-4
<input type="checkbox"/> ____ General Education Global & Cultural Awareness Elective	3
	<hr/> 14-15

**TOTAL MINIMUM CREDITS: 60**

## Program Electives

AGRI 203 Fruit Production (Spring)	3
AGRI 206 Vegetable Production (Spring)	3
AGRI 207 Agricultural Pest Control and Identification (Spring)	4
AGRI 107 Plant Propagation (Spring)	3
AGRI 108 Herbaceous Plants (Spring)	3
AGRI 211 Greenhouse Management	4

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[ARTGAS; 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 should 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

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## Arts and Sciences, A.S.

### FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> CSCI 121 Introduction to Programming <b>or</b> CSCI 131 Intermediate Programming	4
<input type="checkbox"/> MATH 120 Pre-Calculus and Mathematical Analysis <b>or</b> MATH 121 Pre-calculus Mathematics <b>or</b> MATH 130 (Calculus I)	4
<input type="checkbox"/> ____ Science Elective Pair I (first semester) <sup>1</sup>	4
	15–16

### Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 130 Calculus I	4
<input type="checkbox"/> ____ STEM Elective <sup>2</sup>	3–4
<input type="checkbox"/> ____ Science Elective Pair I (second semester) <sup>1</sup>	4
<input type="checkbox"/> ____ General Education Social Science <b>or</b> Humanities Elective	3
	17–18

### SECOND YEAR – Fall Semester

<input type="checkbox"/> ____ Science Elective Pair II (first semester) <sup>1</sup>	4
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ 200 Level Science Elective <sup>3</sup>	3–4
<input type="checkbox"/> ____ Free Elective	1–4
	11–15

### Spring Semester

<input type="checkbox"/> ____ Science Elective Pair II (second semester) <sup>1</sup>	4
<input type="checkbox"/> ____ 200-level Science Elective	4
<input type="checkbox"/> ____ Free Elective	3–4
<input type="checkbox"/> ____ Free Elective	3–4
<input type="checkbox"/> ____ General Education Social Science Elective	3
	17–19

**TOTAL MINIMUM CREDITS: 60**

#### Program Notes

Students must complete all Arts and Science (A.S.) required courses (41 credits) plus 24 credits selected from the Science Elective Pairs and designated courses.

#### Program Electives

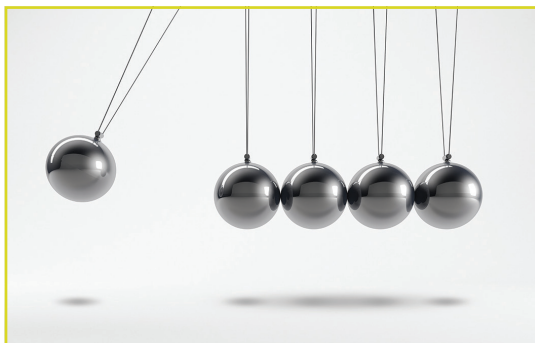
<sup>1</sup> These are the Science elective Pairs. Two pairs of science electives may be selected from the following:

If you take this course in the first semester...	... you must take this course in the second semester
BIOL 101	BIOL 102
BIOL 105	BIOL 106
BIOL 112	BIOL 212
BIOL 115	BIOL 216
CHEM 111	CHEM 112
CHEM 201	CHEM 202
PHYS 103	PHYS 104
PHYS 201	PHYS 202

<sup>2</sup> One science courses must be selected from the following:

BIOL 101, BIOL 103, BIOL 104, BIOL 105, BIOL 107, BIOL 112, BIOL 113, BIOL 115, BIOL 116, BIOL 140, BIOL 209, BIOL 212, BIOL 215, BIOL 221, CHEM 111, CHEM 201, CHEM 215, MATH 122, MATH 201, MATH 229, PHYS 103, PHYS 105, PHYS 111, PHYS 112, PHYS 201, SCIN 201.

<sup>3</sup> In addition to the two science elective pairs and a science elective a 200 level Science Elective course must be selected from the following: BIOL 209, BIOL 215, BIOL 216, BIOL 221, CHEM 201, CHEM 202, PHYS 201, PHYS 202



[ARTGPHAS; CIP Code 24.0101]

**Associate in Arts and 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 Learning Outcomes**

Students who have completed the program should 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

# Arts and Sciences: Physics Option, A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> PHYS 125 Physics for Everyday Life <i>or</i> PHYS 115 Astronomy	4
<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> MATH 130 Calculus I	4
	15–16

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> PHYS 201 Physics with Calculus I	4
<input type="checkbox"/> CHEM 102 General Chemistry II	4
<input type="checkbox"/> MATH 140 Calculus II	4
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> PHYS 202 Physics with Calculus II	4
<input type="checkbox"/> MATH 216 Calculus III	4
<input type="checkbox"/> MATH 212 Linear Algebra	3
<input type="checkbox"/> _____ Free Elective	2–4
<input type="checkbox"/> SOCI 130 Society, Ethics, and Technology	3
	16–18

**Spring Semester**

<input type="checkbox"/> MATH 220 Differential Equations	4
<input type="checkbox"/> PHYS 203 Physics with Calculus III	4
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> _____ General Education Social Science Elective	3
	14

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

Students planning to transfer to Rowan University should:

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

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[BIOLAS; 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 should 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

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# Biology, A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> MATH 130 Calculus I	4
	15-16

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> BIOL 102 General Biology II	4
<input type="checkbox"/> CHEM 102 General Chemistry II	4
<input type="checkbox"/> COMM 103 Technical and Scientific Writing	3
	14

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> CHEM 201 Organic Chemistry I	4
<input type="checkbox"/> BIOL 207 Ecology	4
<input type="checkbox"/> ____ General Education Social Science Elective	3
<input type="checkbox"/> ____ Free Elective	1-4
<input type="checkbox"/> CSCI 121 Introduction to Programming <i>or</i> CSCI 131 Intermediate Programming	4
	16-19

**Spring Semester**

<input type="checkbox"/> CHEM 202 Organic Chemistry II	4
<input type="checkbox"/> BIOL 203 Microbiology <i>or</i> BIOL 221 Cell and Molecular Biology <sup>1</sup>	4
<input type="checkbox"/> ____ General Education Social Science Elective	3
<input type="checkbox"/> ____ Health and Physical Education Elective	1-3
<input type="checkbox"/> ____ General Education Humanities Elective	3
	15-17

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

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

<sup>1</sup> Students planning on transferring to Rowan University should take BIOL 221 Cell and Molecular Biology.



[BIOLBTAS; 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

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# Biology: Bioscience Technologies Option, A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> MATH 120 Pre-Calculus and Mathematical Analysis <i>or</i> MATH 121 Pre-calculus Mathematics	4
	15-16

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> BIOL 102 General Biology II	4
<input type="checkbox"/> CHEM 102 General Chemistry II	4
<input type="checkbox"/> MATH 130 Calculus I	4
	15

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> BIOL 207 Ecology	4
<input type="checkbox"/> BIOL 203 Microbiology	4
<input type="checkbox"/> ____ ____ General Education Social Science Elective	3
<input type="checkbox"/> ____ ____ General Education Humanities Elective	3
<input type="checkbox"/> BIOL 105 Anatomy & Physiology I	4
	18

**Spring Semester**

<input type="checkbox"/> CHEM 201 Organic Chemistry I	4
<input type="checkbox"/> BIOL 221 Cell and Molecular Biology	4
<input type="checkbox"/> ____ ____ General Education Social Science Elective <i>or</i> ____ ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ ____ Health and Physical Education Elective	1-3
<input type="checkbox"/> BIOL 106 Anatomy & Physiology II	4
	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: BIOL 140 Science of Nutrition, CHEM 202 Organic Chemistry II, CSCI 101 Introduction of Programming or CSCI 111 Intermediate Programming, NTRN 136 Nutrition or PHYS 103 General Physics I.



[CHEMAS; 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 should 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

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# Chemistry, A.S.

## FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> MATH 130 Calculus I	4
	15-16

## Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> _____ General Education Elective <sup>1</sup>	3-4
<input type="checkbox"/> CHEM 102 General Chemistry II	4
<input type="checkbox"/> MATH 140 Calculus II	4
<input type="checkbox"/> COMM 103 Technical and Scientific Writing	3
	17-18

## SECOND YEAR – Fall Semester

<input type="checkbox"/> CHEM 201 Organic Chemistry I	4
<input type="checkbox"/> PHYS 201 Physics with Calculus I	4
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> _____ Program Elective <sup>3</sup>	3-4
	14-15

## Spring Semester

<input type="checkbox"/> CHEM 202 Organic Chemistry II	4
<input type="checkbox"/> PHYS 202 Physics with Calculus II	4
<input type="checkbox"/> _____ General Education Social Science <i>or</i> Humanities Elective <sup>2</sup>	3
<input type="checkbox"/> _____ General Education Social Science Elective	3
	14

**TOTAL MINIMUM CREDITS: 60**

### Program Notes

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

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

<sup>2</sup> Students planning to transfer to Rowan University should:

- Take a Social Science elective as social science or humanities elective.

### Program Electives<sup>3</sup>

MATH 221 Calculus III, MATH 202 Linear Algebra,  
CSIC 101 Introduction to Programming or CSIC 111 Intermediate Programming.



[CHEMPRXAS; 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 should 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

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

### FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> _____ General Education Elective <sup>1</sup>	3–4
<input type="checkbox"/> _____ Health and Physical Education Elective I <sup>2</sup>	1–3
	15–19

### Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> CHEM 102 General Chemistry II	4
<input type="checkbox"/> BIOL 102 General Biology II <sup>3</sup>	4
<input type="checkbox"/> MATH 130 Calculus I	4
<input type="checkbox"/> _____ General Education Social Science Elective	3
	18

### SECOND YEAR – Fall Semester

<input type="checkbox"/> CHEM 201 Organic Chemistry I	4
<input type="checkbox"/> PHYS 123 General Physics I	4
<input type="checkbox"/> BIOL 105 Anatomy & Physiology I <sup>4</sup>	4
<input type="checkbox"/> BIOL 203 Microbiology	4
	16

### Spring Semester

<input type="checkbox"/> CHEM 202 Organic Chemistry II	4
<input type="checkbox"/> PHYS 124 General Physics II <sup>5</sup>	4
<input type="checkbox"/> BIOL 106 Anatomy & Physiology II <sup>4</sup>	4
<input type="checkbox"/> _____ General Education Social Science <i>or</i> Humanities Elective	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
	18

**TOTAL MINIMUM CREDITS: 60**

#### Program Notes

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

<sup>1</sup> 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.

<sup>2</sup> Students planning to transfer to University of Maryland – Eastern Shore Pharmacy School must take SPEH 101 Oral Communication in place of an HPER course.

<sup>3</sup> Students planning to transfer to University of Maryland – Eastern Shore Pharmacy School must take MATH 103 Statistics in place of BIOL 102 General Biology II.

<sup>4</sup> Students planning to transfer to University of the Sciences in Philadelphia must take BIOL 105 Anatomy and Physiology I and BIOL 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. CHEM Pre-Pharm.D. option from RCSJ.

<sup>5</sup> Students planning to transfer to University of Maryland – Eastern Shore Pharmacy School must take ECON 100 Introduction to Economics in place of PHYS 124 General Physics II.

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[COMP GAS; 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 area

#### Program Learning Outcomes

Students who have completed the program should 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
- Identify, formulate and solve problems and learn to adapt to evolving computer

✦ 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.

## 3+1 option in Data Analytics

### FIRST YEAR – Fall Semester

<input type="checkbox"/> CSCI 205 Programming in C++	4
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 130 Calculus I	4
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ General Education Social Science Elective	3
	17-18

### Spring Semester

<input type="checkbox"/> CSCI 210 Object Oriented Programming in Java	4
<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 140 Calculus II	4
<input type="checkbox"/> PHYS 201 Physics with Calculus I	4
	15

### SECOND YEAR – Fall Semester

<input type="checkbox"/> CSCI 207 Assembly Language and Computer Organization	4
<input type="checkbox"/> CSCI 216 Objects and Data Abstraction using Java	4
<input type="checkbox"/> MATH ____ Mathematics Elective Linear Algebra (MATH 212) <sup>1</sup> <b>or</b> Calculus III (MATH 216)	4
<input type="checkbox"/> ____ General Education Humanities <b>or</b> Social Science Elective	3
	15

### Spring Semester

<input type="checkbox"/> CSCI 220 Data Structures and Algorithms	4
<input type="checkbox"/> MATH 201 Discrete Mathematics	3
<input type="checkbox"/> PHYS 202 Physics with Calculus II	4
<input type="checkbox"/> ____ Health and Physical Education <b>or</b> Free Elective	2-4
	13-15

**TOTAL MINIMUM CREDITS: 60**

#### Program Electives

Humanities Elective / Social Science Elective: 9 credits - must be chosen from the approved list of General Education courses. Refer to the College Catalog and/or the Counseling Office.

Mathematics: Linear Algebra (MATH 212) or Calculus III (MATH 216)

<sup>1</sup> Students planning to transfer to Rowan University should take Linear Algebra MATH 212 as their Mathematics elective.



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

The 3+1 Program 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 Program

### THIRD YEAR — Fall Semester

<input type="checkbox"/> CSCI 125 Introduction to Data Science	3
<input type="checkbox"/> CISM 300 Applied Database Technologies	3
<input type="checkbox"/> CISM 114 Fundamentals of Programming	4
<input type="checkbox"/> CISM 200 Principles of Information Security	3
<input type="checkbox"/> MATH 103 Statistics I	3
	16

### Spring Semester

<input type="checkbox"/> CISM 207 Management Information Systems	3
<input type="checkbox"/> CSCI 225 Programming in R	2
<input type="checkbox"/> MATH 203 Statistics II	3
<input type="checkbox"/> DATA 301 Research Methods & Ethical Issues in Data Analysis	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
	14

**STEP 1**  
**START AT RCSJ**  
 COMPUTER SCIENCE (A.S.)

**STEP 2**  
**END AT**  
**ROWAN UNIVERSITY**  
 DATA ANALYTICS (B.S.)

**FOURTH YEAR** — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 Program 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 Program:

Stephen Sweeney, Assistant Director,  
3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

#### About the program:

Karen Durkin, Assistant Dean,  
STEM Division | Assistant Professor,  
Mathematics, [kdurkin@rcsj.edu](mailto:kdurkin@rcsj.edu)

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



# Computer Science, CERT

[COMPCERT; CIP Code 11.0701]

## Certificate Program

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 should 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

### FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> CSCI 121 Introduction to Programming	4
<input type="checkbox"/> CSCI 131 Intermediate Programming	4
<input type="checkbox"/> CSCI 205 Programming in C++	4
<input type="checkbox"/> CSCI 210 Object Oriented Programming in Java	4
<input type="checkbox"/> CSCI 220 Data Structures and Algorithms	4
<input type="checkbox"/> MATH 110 Algebra & Trigonometry	4
<input type="checkbox"/> MATH 120 Pre-Calculus and Mathematical Analysis <i>or</i> MATH 121 Pre-calculus Mathematics	4
	31-32

**TOTAL MINIMUM CREDITS: 30**

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



[CYBRAS; CIP Code 43.0403]

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

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

#### Program Learning Outcomes

Students who have completed the program should be able to:

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

# Cybersecurity, A.S.

**3+1 option in Computing and Informatics**

#### FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 114 College Algebra	3
<input type="checkbox"/> CSCI 101 Introduction to Microcomputers	3
<input type="checkbox"/> CISM 217 Introduction to Networks	4
<input type="checkbox"/> ____ ____ General Education Humanities Elective	3
	16-17

#### Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> CYBR 229 Linux Installation and Configuration	3
<input type="checkbox"/> CISM 200 Principles of Information Security	3
<input type="checkbox"/> ____ ____ General Education Elective	3
	15

#### SECOND YEAR – Fall Semester

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

#### Spring Semester

<input type="checkbox"/> CSCI 205 Programming in C++	4
<input type="checkbox"/> CYBR 265 Ethical Hacking	4
<input type="checkbox"/> ETEC 116 Workplace Ethics	1
<input type="checkbox"/> ____ ____ General Education Global & Cultural Awareness Elective	3
	12

**TOTAL MINIMUM CREDITS: 60**

#### Program Notes

This program prepares students to continue their education at a four-year college or university in fields such as Security Technician, Security Analyst, Security Administrator, and Security Auditor.

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



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

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

## Computing & Informatics 3+1 Program

### THIRD YEAR — Fall Semester

<input type="checkbox"/> CSCI 112 Computer Science II	4
<input type="checkbox"/> CSCI 220 Data Structures and Algorithms	4
<input type="checkbox"/> ENGL 201 British Literature I	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
	14

### Spring Semester

<input type="checkbox"/> CYBR 337 Applied Database Technology	3
<input type="checkbox"/> CSCI 216 Objects and Data Abstraction using Java	4
<input type="checkbox"/> MATH 201 Discrete Mathematics	4
<input type="checkbox"/> _____ Elective	3
	14

### STEP 1

**START AT RCSJ**  
CYBERSECURITY (A.S.)

### STEP 2

**END AT**  
**ROWAN UNIVERSITY**  
COMPUTING AND  
INFORMATICS (B.A.)

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



### Industry & Employment Opportunities

#### Bachelor's

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

#### Master's

Computer and Information Research Scientist



### Questions

#### About 3+1 Program:

Stephen Sweeney, Assistant Director,  
3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

#### About the program:

Karen Durkin, Assistant Dean,  
STEM Division | Assistant Professor,  
Mathematics, [kdurkin@rcsj.edu](mailto:kdurkin@rcsj.edu)

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



[ENGRTECAAS; CIP Code 15.0612]

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

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

The flexibility offered by this program allows for entrance directly into the workforce or transfer into the BS in engineering Technology programs.

# Electrical Engineering Technology, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> ENGR 102 First Year Engineering Clinic I	2
<input type="checkbox"/> ETEC 107 Circuits I	3
<input type="checkbox"/> MATH 120 Pre-Calculus and Mathematical Analysis <i>or</i> MATH 121 Pre-calculus Mathematics	4
<input type="checkbox"/> PHYS 123 General Physics I	4
	16–17

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 130 Calculus I	4
<input type="checkbox"/> ENGR 103 First Year Engineering Clinic II	2
<input type="checkbox"/> PHYS 124 General Physics II	4
<input type="checkbox"/> CSCI 205 Programming in C++	4
	17

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ENGR 201 Second Year Engineering Clinic I	1
<input type="checkbox"/> ETEC 205 Digital Electronics	3
<input type="checkbox"/> ECON 101 Principles of Economics (Macro) <i>or</i> ECON 102 Principles of Economics (Micro)	3
<input type="checkbox"/> ETEC 111 Electronics	4
	16

**Spring Semester**

<input type="checkbox"/> ENGR 202 Second Year Engineering Clinic II	1
<input type="checkbox"/> ETEC 241 Robotics and Motion Control	3
<input type="checkbox"/> ETEC 218 Programmable Logic Controller	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ETEC 244 Instrumentation & Measurement	3
	13

**TOTAL MINIMUM CREDITS: 60**

**Program Learning Outcomes**

Students who have completed the program should be able to:

- Conduct tests, measurements and experiments to analyze and interpret results
- Apply algebra to analyze simple electrical circuits
- Employ standardized industrial equipment such as Programmable Logic Controllers and apply the principles of quality control
- Understand industrial and commercial robotics technology
- Design solutions for technical problems and assist with the engineering design of systems, components or processes related to electrical engineering

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



[ENGRTECCER; CIP Code 15.0612]

### Certificate Program

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

#### Program Learning Outcomes

Students who have completed the program should be able to:

- Apply algebra to analyze simple electrical circuits
- Develop a technical drawing in free hand and computer aided format
- Locate information resources and successfully retrieve data for employment
- Successfully employ test and measurement equipment

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

# Engineering Technology, CERT

### FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> ETEC 102 Fundamentals of Engineering Technology	3
<input type="checkbox"/> ETEC 105 Blueprint Reading & Sketching	3
<input type="checkbox"/> ENGR 102 First Year Engineering Clinic I	3
<input type="checkbox"/> ____ ____ Business <i>or</i> Computer Science Elective	3
	15-16

### Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II <i>or</i> COMM 103 Technical and Scientific Writing	3
<input type="checkbox"/> DRAF 113 CADD II Advanced AutoCAD	3
<input type="checkbox"/> MATH 110 Algebra & Trigonometry	3
<input type="checkbox"/> ____ ____ Program Elective	3
<input type="checkbox"/> ____ ____ Program Elective	3
	15

**TOTAL MINIMUM CREDITS: 31**

#### Program Electives

- ENGR 110 Engineering Graphics
- ETEC 111 Electronics
- ETEC 162 Quality Control
- ETEC 212 CAD III: 3D Modeling
- ETEC 218 Programmable Logic Controllers
- MATH 203 Statistics
- PHYS 104 Energy, the Environment and Society

#### Business and Computer Science Electives

- BUSN 200 Principles of Management
- BUSN 101 Introduction to Business
- BUSN 201 Small Business Management
- CSCI 101 Introduction to Microcomputers



[ENGRELCERT; CIP Code 15.0399]

### Certificate Program

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

### Program Learning Outcomes

Students who have completed the program should be able to:

- Successfully employ test and measurement equipment
- Locate information resources and successfully retrieve data for employment
- Apply algebra to analyze simple electrical circuits
- Employ standardized industrial equipment such as PLC and be capable to apply the principles of quality control

# Engineering Technology/ Electronics Technology, CERT

## FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 114 College Algebra <i>or</i> MATH 120 Pre-Calculus and Mathematical Analysis <i>or</i> MATH 121 Pre-calculus Mathematics	4
<input type="checkbox"/> ETEC 218 Programmable Logic Controller	3
<input type="checkbox"/> ETEC 107 Circuits I	3
<input type="checkbox"/> ENGR 102 First Year Engineering Clinic I	2
	15-16

## Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II <i>or</i> ENGL 103 Technical Writing	3
<input type="checkbox"/> ENGR 108 Digital electronics for Engineers	3
<input type="checkbox"/> Program elective <sup>1</sup>	3-4
<input type="checkbox"/> Program elective <sup>1</sup>	4
	13-14

**TOTAL MINIMUM CREDITS: 30**

### Program Electives<sup>1</sup>

CSCI 121 Introduction to Programming	4
MATH 118 College Trigonometry	3
PHYS 104 Energy, The Environment and Society	3

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



[ENRGAS; 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 should 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

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

# Engineering Science, A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> CSCI 205 Programming in C++	4
<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 130 Calculus I	4
<input type="checkbox"/> ENGR 102 First Year Engineering Clinic I	2
	17-18

**Spring Semester**

<input type="checkbox"/> CHEM 102 General Chemistry II <i>or</i> _____ Program Elective <sup>1</sup>	3-4
<input type="checkbox"/> PHYS 201 Physics with Calculus I	4
<input type="checkbox"/> ENGR 103 First Year Engineering Clinic II	2
<input type="checkbox"/> ENGR 207 Engineering Materials <i>or</i> _____ Program Elective <sup>1</sup>	3-4
<input type="checkbox"/> MATH 140 Calculus II	4
	16-18

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ENGR 201 Second Year Engineering Clinic I	1
<input type="checkbox"/> MATH 216 Calculus III	4
<input type="checkbox"/> _____ Health and Physical Education <i>or</i> Free Elective <sup>1</sup> <i>or</i> _____ Program Elective <sup>1</sup>	1-4
<input type="checkbox"/> PHYS 202 Physics with Calculus II <i>or</i> _____ Program Elective <sup>1</sup>	3-4
<input type="checkbox"/> _____ General Education Humanities <i>or</i> Social Science Elective	3
	15-18

**Spring Semester**

<input type="checkbox"/> MATH 220 Differential Equations	4
<input type="checkbox"/> ENGR 202 Second Year Engineering Clinic II	1
<input type="checkbox"/> _____ Health and Physical Education <i>or</i> Free Elective <sup>1</sup> <i>or</i> _____ Program Elective <sup>1</sup>	1-4
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> PHIL 102 Ethics	3
	12-15

**TOTAL MINIMUM CREDITS: 60**

**Program Electives<sup>1</sup>**

**Mechanical<sup>1</sup>**

PHYS 202, ENGR 207, MATH 202, SPEH 101, ENGR 211, ENGR 212, ENGR 213

**Electrical/Computer<sup>1</sup>**

PHYS 202, MATH 202, SPEH 101, CSCI 220, ENGR 108, ENGR 218

**Civil<sup>1</sup>**

MATH 202, SPEH 101, GEGR 115, ENGR 207, ENGR 211, ENGR 212, ENGR 213, CETE 108, ETEC 103

**Chemical<sup>1</sup>**

CHEM 112, MATH 202, SPEH 101, CHEM 201, CHEM 202

**Biomedical<sup>1</sup>**

CHEM 112, PHYS 202, MATH 202, SPEH 101, BIOL 101



### Certificate of Achievement

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

#### Note

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

✦ 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

[ENGRBECOA, CIP Code 15.1001]

<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> CHEM 102 General Chemistry II	4
<input type="checkbox"/> MATH 212 Linear Algebra	3
<input type="checkbox"/> PHYS 202 Physics with Calculus II	4
<input type="checkbox"/> SPEH 101 Effective Speech	3
	<hr/> 18

**TOTAL MINIMUM CREDITS: 18**

### Civil Engineering

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> MATH 212 Linear Algebra	3
<input type="checkbox"/> ENGR 207 Engineering Materials	3
<input type="checkbox"/> ENGR 211 Engineering Statics	3
<input type="checkbox"/> ENGR 212 Mechanics of Materials	3
<input type="checkbox"/> ENGR 213 Engineering Dynamics	3
<input type="checkbox"/> GEOL 115 Introduction Geographic Information Systems	3
<input type="checkbox"/> CETE 108 Introduction to Surveying	3
<input type="checkbox"/> ETEC 103 CADD I (AutoCAD)	3
	<hr/> 27

**TOTAL MINIMUM CREDITS: 27**

### Chemical Engineering

[ENGRCECOA; CIP Code 14.0101]

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> MATH 212 Linear Algebra	3
<input type="checkbox"/> CHEM 201 Organic Chemistry I	4
<input type="checkbox"/> CHEM 202 Organic Chemistry II	4
<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> ENGR 102 First Year Engineering Clinic I	2
	<hr/> 20

**TOTAL MINIMUM CREDITS: 20**

### Electrical Engineering

[ENGRELECOA; CIP Code 14.0101]

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> MATH 212 Linear Algebra	3
<input type="checkbox"/> ENGR 108 Digital Electronics for Engineers	3
<input type="checkbox"/> ENGR 218 Principles of Electrical Circuit Analysis	4
<input type="checkbox"/> CSCI 220 Data Structures and Algorithms	4
	<hr/> 17

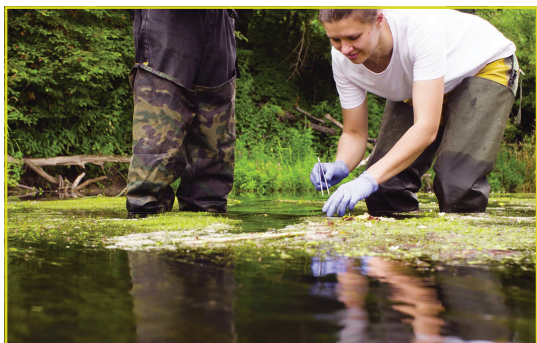
**TOTAL MINIMUM CREDITS: 17**

### Mechanical Engineering

[COACAMC; CIP Code 14.0101]

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> MATH 212 Linear Algebra	3
<input type="checkbox"/> ENGR 207 Engineering Materials	3
<input type="checkbox"/> ENGR 211 Engineering Statics	3
<input type="checkbox"/> ENGR 212 Mechanics of Materials	3
<input type="checkbox"/> ENGR 213 Engineering Dynamics	3
	<hr/> 18

**TOTAL MINIMUM CREDITS: 18**



[BIOLESAS; 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 should be able to:

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

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

# Environmental Science, A.S.

## FIRST YEAR – Fall Semester

<input type="checkbox"/> MATH 120 Pre-Calculus and Mathematical Analysis <b>or</b> MATH 121 Pre-calculus Mathematics <b>or</b> MATH 130 Calculus I <sup>1</sup>	4
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> ENVS 101 Environmental Science	4
	15–16

## Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> BIOL 102 General Biology II	4
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> GEOL 101 Physical Geology	4
	14

## SECOND YEAR – Fall Semester

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> BIOL 207 Ecology	4
<input type="checkbox"/> GEGR 115 Introduction to Geographic Information Systems	3
<input type="checkbox"/> _____ Program Elective <sup>2</sup>	4
	14

## Spring Semester

<input type="checkbox"/> ENVS 201 Research Methods & Data Analysis	4
<input type="checkbox"/> _____ Program Elective <sup>2</sup>	4
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> SOCI 101 Introduction to Sociology	3
<input type="checkbox"/> ECON 101 Principles of Economics (Macro)	3
	17

**TOTAL MINIMUM CREDITS: 60**

### Program Notes

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

<sup>2</sup> Program Elective: Select 2 of: PHYS 103 Physics I, PHYS 201 Physics I (calculus based), CHEM 111 Chemistry I, CHEM 112 Chemistry II, MATH 108 Calculus I

### Program Electives Recommendations

- CHEM 111 and CHEM 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.
- CHEM 111 and PHYS 103 OR PHYS 201: Recommended for students planning to transfer to Stockton University's BA in Environmental Science.
- MATH 108 and PHYS 201: Recommended for students planning to transfer to a BS program in Environmental Science, but place into MATH 107 in your first semester.
- Students planning to transfer to other BS or BA Environmental Science programs are encouraged to meet with their advisor at RCSJ or their transfer school to select their program elective courses.



## Equine Science, A.S.

[EQUASAS; 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 should 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

#### FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> BIOL 120 Animal Science	4
<input type="checkbox"/> ____ Free Elective	3-4
	14-16

#### Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> BIOL 102 General Biology II	4
<input type="checkbox"/> BIOL 118 Introduction to Equine Science	4
<input type="checkbox"/> MATH 120 Pre-Calculus and Mathematical Analysis <i>or</i> MATH 121 Pre-calculus Mathematics <i>or</i> MATH 130 Calculus I	4
	15

#### SECOND YEAR – Fall Semester

<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> ECON 101 Principles of Economics (Macro)	3
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> ____ General Education Humanities Elective	3
<input type="checkbox"/> ____ Free Elective	3-4
	16-17

#### Spring Semester

<input type="checkbox"/> BIOL 218 Equine Capstone Practicum	3
<input type="checkbox"/> CHEM 102 General Chemistry II	4
<input type="checkbox"/> ECON 102 Principles of Economics (Micro)	3
<input type="checkbox"/> ____ General Education Lab Science Elective	4
<input type="checkbox"/> ____ HPER Elective	1-3
	15-17

**TOTAL MINIMUM CREDITS: 60**

#### Program Notes

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

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



## Equine Science, COA

[EQUSCOA; 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.

#### FIRST YEAR – Fall Semester

<input type="checkbox"/> BIOL 120 Animal Science	4
<input type="checkbox"/> BIOL 118 Introduction to Equine Science	4
<input type="checkbox"/> BIOL 218 Equine Capstone Practicum	3
<input type="checkbox"/> BIOL ____ Biology Elective	4
	15

**TOTAL MINIMUM CREDITS: 15**

#### Note

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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



[EQUSPVMAS; 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 should 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

# Equine Science: Pre-Veterinary Medicine Option, A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> BIOL 120 Animal Science	4
<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> MATH 130 Calculus I	4
	16

**Spring Semester**

<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> BIOL 102 General Biology II	4
<input type="checkbox"/> BIOL 118 Introduction to Equine Science	4
<input type="checkbox"/> CHEM 102 General Chemistry II	4
<input type="checkbox"/> _____ General Education Humanities Elective	3
	18-19

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> CHEM 201 Organic Chemistry I	4
<input type="checkbox"/> PSYC 101 General Psychology	3
<input type="checkbox"/> _____ Health and Physical Education Elective	1-3
<input type="checkbox"/> _____ General Education Social Science <b>or</b> Humanities Elective	3
	14-16

**Spring Semester**

<input type="checkbox"/> BIOL 218 Equine Capstone Practicum	3
<input type="checkbox"/> CHEM 202 Organic Chemistry II	4
<input type="checkbox"/> BIOL 203 Microbiology <b>or</b> BIOL 221 Cell and Molecular Biology <sup>1</sup>	4
<input type="checkbox"/> _____ General Education Lab Science Elective <sup>1</sup>	4
	15

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

<sup>1</sup> Students planning to apply to Ross University’s doctoral Veterinary Medicine program should select BIOL 221 and PHYS 103 for their Science Elective. Students planning to transfer to Rowan University should select either BIOL 215 or BIOL 221 and BIOL 209 for their science elective. Students planning to transfer to Rutgers University should select BIOL 215 and PHYS 103 for their science elective. Check requirements of transfer institution for other transfer institution recommendations.

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



[AGRIHAAS; CIP Code 01.0603]

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

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

**Program Learning Outcomes**

Students who have completed the program should be able to:

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

# Horticulture, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> AGRI 105 Introduction to Agricultural Sciences	3
<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> AGRI 111 Identification Interior Plants	3
<input type="checkbox"/> BUSN 206 Retailing	3
	16-17

**Spring Semester**

<input type="checkbox"/> AGRI 207 Agriculture Pest Control	4
<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> ENGL 102 English Composition II <b>or</b> COMM 103 Technical and Scientific Writing <b>or</b> SPEH 101 Effective Speech	3
<input type="checkbox"/> _____ General Education Mathematics Elective	3
<input type="checkbox"/> _____ General Education Humanities Elective	3
	17

**SECOND YEAR – Fall Semester**

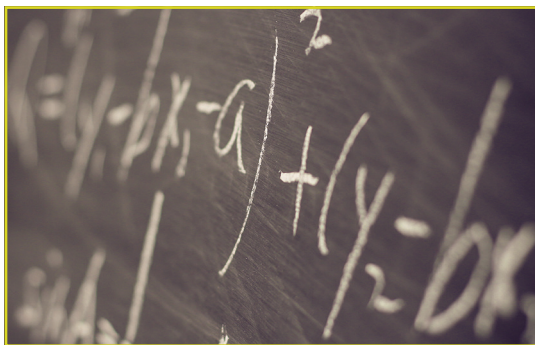
<input type="checkbox"/> AGRI 106 Plant Science	4
<input type="checkbox"/> AGRI 209 Introduction to Soil Science	4
<input type="checkbox"/> AGRI 109 Plant Materials	3
<input type="checkbox"/> _____ General Education Social Science Elective	3
	14

**Spring Semester**

<input type="checkbox"/> AGRI 107 Plant Propagation	3
<input type="checkbox"/> AGRI 108 Herbaceous Plants	3
<input type="checkbox"/> AGRI 211 Greenhouse Management	4
<input type="checkbox"/> _____ General Education Global & Cultural Awareness Elective	3
	13

**TOTAL MINIMUM CREDITS: 60**

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



[MATHAS; 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 should 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

# Mathematics, A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 130 Calculus I <sup>1</sup>	4
<input type="checkbox"/> CSCI 121 Introduction to Programming	4
<input type="checkbox"/> _____ General Education Social Science Elective <sup>2</sup>	3
<input type="checkbox"/> _____ Free Elective	1-4
	15-19

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 140 Calculus II	4
<input type="checkbox"/> MATH 201 Discrete Mathematics	3
<input type="checkbox"/> _____ General Education Lab Science Elective <sup>3</sup>	4
<input type="checkbox"/> _____ Free Elective <sup>4</sup>	1-4
	15-18

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> MATH 212 Linear Algebra	3
<input type="checkbox"/> MATH 216 Calculus III	4
<input type="checkbox"/> _____ General Education Lab Science Elective	4
<input type="checkbox"/> SPEH 101 Effective Speech	3
	14

**Spring Semester**

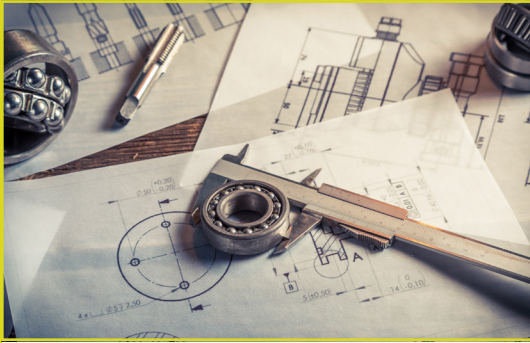
<input type="checkbox"/> MATH 220 Differential Equations	4
<input type="checkbox"/> MATH _____ General Education Mathematics Elective	3-4
<input type="checkbox"/> _____ General Education Elective	3-4
<input type="checkbox"/> _____ General Education Humanities Elective	3
<input type="checkbox"/> _____ General Education Social Science Elective <sup>2</sup>	3
	16-18

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

- <sup>1</sup> Students who need prerequisite Mathematics courses before beginning Calculus I will need more than four semesters to complete the degree
- <sup>2</sup> Students should consult the institutions to which they wish to transfer when selecting elective courses. Economics is recommended for Social Science elective.
- <sup>3</sup> A minimum of eight credits in a two-semester laboratory science sequence is required. PHYS 201 Physics I (calculus-based) and PHYS 202 Physics II (calculus-based) are recommended for most transfer institutions. Students planning to transfer to Rowan University should:
  1. Take ECON 101 Principles of Economics I (Macro) and ECON 102 Principles of Economics II (Micro) as Social Science electives.
  2. Take PHYS 201 Physics I (calculus-based) and PHYS 202 Physics II (calculus based) as science electives.
  3. Take a four-credit science course as a General Education elective.
- <sup>4</sup> Suggested Program Elective Suggestion: CSCI 125 Data Science

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



[ENGRMECAAS; CIP Code 15.0805]

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

# Mechanical Engineering Technology, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <b>or</b> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> ENGR 102 First Year Engineering Clinic I	2
<input type="checkbox"/> MATH 120 Pre-Calculus and Mathematical Analysis <b>or</b> MATH 121 Pre-calculus Mathematics	4
<input type="checkbox"/> PHYS 123 General Physics I	4
<input type="checkbox"/> ETEC 103 CADD I (AutoCAD)	3
	16–17

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> MATH 130 Calculus I	4
<input type="checkbox"/> ENGR 103 First Year Engineering Clinic II	2
<input type="checkbox"/> PHYS 124 General Physics II	4
<input type="checkbox"/> ETEC 107 Circuits I	3
	16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> ENGR 201 Second Year Engineering Clinic I	1
<input type="checkbox"/> ENGR 211 Engineering Statics	3
<input type="checkbox"/> ECON 102 Principles of Economics (Micro)	3
<input type="checkbox"/> CHEM 101 General Chemistry I	4
<input type="checkbox"/> ETEC 160 CNC Programming	4
	15

**Spring Semester**

<input type="checkbox"/> ENGR 202 Second Year Engineering Clinic II	1
<input type="checkbox"/> ENGR 213 Engineering Dynamics	3
<input type="checkbox"/> ETEC 218 Programmable Logic Controller	3
<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> ENGR 200 MATLAB Programming	3
	13

**TOTAL MINIMUM CREDITS: 60**

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



[ENGRSRAAS; 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 should 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

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

# Surveying Engineering Technologies, A.A.S.

**FIRST YEAR – Fall Semester**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> MATH 120 Pre-Calculus and Mathematical Analysis <i>or</i> MATH 121 Pre-calculus Mathematics	4
<input type="checkbox"/> CSCI 131 Intermediate Programming	4
<input type="checkbox"/> GEGR 115 Introduction to Geographic Information Systems	3
	14–15

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ETEC 103 CADD I(AutoCAD)	3
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> GEOL 111 Earth Science: Land and Sea	4
<input type="checkbox"/> CETE 108 Introduction to Surveying	3
	16

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> GEOL 112 Earth Science: Air and Space	4
<input type="checkbox"/> CETE 206 Evidence and Procedures for Boundary Location	3
<input type="checkbox"/> ETEC 113 CADD II Advanced AutoCAD	3
<input type="checkbox"/> MATH 130 Calculus I	4
	14

**Spring Semester**

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> PHIL 102 Ethics	3
<input type="checkbox"/> MATH 140 Calculus II	3
<input type="checkbox"/> CETE 208 Route and Construction Surveying	4
<input type="checkbox"/> ____ ____ Technical Elective <sup>1</sup>	3
	16

**TOTAL MINIMUM CREDITS: 60**

**Program Notes**

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.

**Technical Electives<sup>1</sup>**

ISCC 211 Cooperative Education Experience, CETE 201 Codes Contracts and Specifications; CETE 207 Hydraulics; ETEC 212 3-D Modeling.  
Note that the prerequisite for ETEC 212 3-D Modeling is ETEC 216 Architectural and Civil Planning



# Surveying Engineering Technologies, COAs

## Certificate 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.

### Civil Engineering Technologies

[ENGRGETCOA; CIP Code 14.0101]

<input type="checkbox"/> CETE 101 Introduction to Materials	3
<input type="checkbox"/> CETE 108 Introduction to Surveying	3
<input type="checkbox"/> CETE 203 Applied Statics	3
<input type="checkbox"/> CETE 204 Structural Systems <i>or</i> CETE 205 Applied Strengths and Materials <i>or</i> CETE 208 Route and Construction Surveying	3
	<hr/> 12

**TOTAL MINIMUM CREDITS: 12**

### Construction Supervision

[COMNSCOA; CIP Code 15.01001]

<input type="checkbox"/> CETE 101 Introduction to Materials	3
<input type="checkbox"/> ETEC 103 CADD I (AutoCad)	3
<input type="checkbox"/> CETE 201 Codes, Contracts, Specifications	3
<input type="checkbox"/> BUSN 109 Business Law <i>or</i> CETE 209 Cost Estimating <i>or</i> ETEC 212 CADD 3D III	3
	<hr/> 12

**TOTAL MINIMUM CREDITS: 12**

### Drafting and Design

[COMNDCOA; CIP Code 15.1302]

<input type="checkbox"/> ETEC 103 CADD I (AutoCad)	3
<input type="checkbox"/> ETEC 113 CADD II (Advanced AutoCad)	3
<input type="checkbox"/> ETEC 216 Architectural and Civil Planning	3
<input type="checkbox"/> ETEC 212 CADD 3D Modeling	3
	<hr/> 12

**TOTAL MINIMUM CREDITS: 12**

### Surveying Engineering Technology

[ENGRSRCOA; CIP Code 15.1102]

<input type="checkbox"/> CETE 108 Introduction to Surveying	3
<input type="checkbox"/> CETE 206 Evidence & Procedures of Boundary Locations	3
<input type="checkbox"/> CETE 208 Route & Construction Surveying	3
<input type="checkbox"/> ETEC 103 CADD I (AutoCad)	3
	<hr/> 12

**TOTAL MINIMUM CREDITS: 12**

### Note

The Certificate of Achievement (COA) must be 12-29 credits. To be eligible for financial aid, it must be a minimum of 15 credits.

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



[VETTAAS; CIP Code 01.8301]

**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.

**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

✦ 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**

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 101 Concepts of Mathematics	3
<input type="checkbox"/> BIOL 101 General Biology I	4
<input type="checkbox"/> VETT 101 Intro to Veterinary Technology	3
<input type="checkbox"/> VETT 115 Animal Behavior and Restraint	3
	16-17

**Spring Semester**

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> BIOL 102 General Biology II	4
<input type="checkbox"/> VETT 105 Anatomy and Physiology of Domestic Animals I	4
<input type="checkbox"/> VETT 110 Veterinary Pharmacology	3
<input type="checkbox"/> VETT 201 Small Animal Medicine & Nursing Care	4
	18

**SECOND YEAR – Fall Semester**

<input type="checkbox"/> VETT 106 Anatomy and Physiology of Domestic Animals II	4
<input type="checkbox"/> VETT 210 Veterinary Laboratory Procedures I	4
<input type="checkbox"/> VETT 225 Veterinary Diagnostic Imaging & Dentistry	3
<input type="checkbox"/> VETT 230 Veterinary Surgical Nursing & Anesthesia	3
<input type="checkbox"/> VETT 205 Large Animal Medicine & Nursing Care	4
	18

**Spring Semester**

<input type="checkbox"/> VETT 235 Veterinary Emergency Medicine	3
<input type="checkbox"/> VETT 211 Veterinary Laboratory Procedures II	4
<input type="checkbox"/> VETT 220 Laboratory and Exotic Medicine and Nursing Care	4
<input type="checkbox"/> VETT 240 Veterinary Profession Leadership Seminar	3
<input type="checkbox"/> _____ General Education Social Science <i>or</i> Humanities Elective	3
	17

**TOTAL MINIMUM CREDITS: 69**

## GENERAL EDUCATION REQUIREMENTS

A General Education Foundation for Associate in Arts, Associate in Science, Specialized Associate, and Certificate Programs in New Jersey's Community Colleges (1997 Adoption, 2007 Reaffirmed, August 15 2007 Revision, September 6, 2011 Revision)  
APPROVED BY PRESIDENTS – 4/22/2022

General Education Goal(s) addressed								Course Categories (Goal Categories)	AA credits	AS credits	AAS, AFA, AS Nursing credits	Certificate credits
1								Communication (Written and Oral Com.)	9	6	6	3
	2							Mathematics – Science – Technology • <i>Mathematics 3-8 cr. (Quant. Knlg. &amp; Skills)</i> • <i>Science 3-8 cr. (Sci. Knlg. &amp; Rsng.)</i> • <i>Technological Competency 0-4 cr.</i>	6	9	3	3
		3										
			4									
				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	
								<b>General Education Foundation Total</b>	<b>33</b>	<b>30</b>	<b>20</b>	<b>6</b>

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 <b>NJCC GE Course Criteria</b> (September 6, 2011).
<b>1 Communication</b>	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.
<b>2 Mathematics</b>	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.
<b>3 Science</b>	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.
<b>4 Technology</b>	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.
<b>5 Social Science</b>	5 Society and Human Behavior	Any introductory course(s) from among anthropology, economics, geography, political science, psychology, or sociology.
<b>6 Humanities</b>	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.
<b>7 History</b>	7 Historical Perspective	Any broad-based course(s) or sequence of courses in World, Western, non-Western, or American History.
<b>8 Diversity Courses</b>	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.
<b>General Education Integrated Course Goal</b>		<b>Course Criteria:</b> Below are brief descriptions of the course criteria for satisfying the requirements. For fuller descriptions, see the <b>NJCC GE Course Criteria</b>
Ethical Reasoning and Action		This ethical reasoning and action goal may be infused in any of the above categories. These courses should include the ethical implications of issues and situations.
Information Literacy		These courses include the requirement for students to address an information need by locating, evaluating and effectively using in formation.

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

Programs	Allocation Notes: The credit allocation below is consistent with the 1997 NJCC Gen. Ed. Foundation grid.
AA	The Associate in Arts (AA) degree requires 33 semester credits hours of general education coursework from among the indicated categories. Individual community colleges may choose to require general education and other credits* in excess of the minimum, and make their own determination about the distribution. (*E.g., Student Success, Studio Arts, Communication, Math-Science-Tech, Social Science, Humanities, History and/or Diversity courses)
AS	The Associate in Science (AS) degree requires a minimum of 30 semester credits hours from among the indicated categories, with minimum distributions as shown.
Specialized Associate AAS, AFA, & AS Nursing	The specialized associate degrees shall include Applied Associate in Science (AAS), Associate in Fine Arts (AFA) and AS in Nursing. These programs shall require no fewer than 20 semester credit hours of General Education. Notwithstanding any articulation agreements, the general education courses should support career preparation. General education coursework in excess of the 12 credits listed should follow the AS distribution limits.
Certificate	The Certificate (or Academic Certificate) shall prepare students to read and write effectively. At least one other general education course is required. The Certificate of Achievement (COA) requires no general education courses beyond those that support career education. The Certificate of Completion (COC) is a noncredit certification program, which is not applicable within the general education context.

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.**

### Written and Oral Communication (WOC)

#### Written Communication

COMM 103	Technical and Scientific Writing
ENGL 101	English Composition I
ENGL 101E	Enhanced English Composition I
ENGL 102	English Composition II

#### Oral Communication

SPEH 101	Effective Speech
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### Quantitative Knowledge and Skills (QKS)

#### Mathematics

MATH 100	Foundations of Mathematics I
MATH 101	Concepts of Mathematics
MATH 102	Survey of Mathematics
MATH 103	Statistics I
MATH 105	Intermediate Algebra
MATH 108	College Geometry
MATH 110	Algebra & Trigonometry
MATH 114	College Algebra
MATH 115	Structures of Mathematics I
MATH 116	Principles of Mathematics
MATH 117	Structures of Mathematics II
MATH 118	College Trigonometry
MATH 120	Pre-Calculus and Mathematical Analysis
MATH 121	Pre-Calculus Mathematics
MATH 125	Mathematics for Management
MATH 126	Applied Calculus
MATH 130	Calculus I
MATH 140	Calculus II
MATH 200	Foundations of Mathematics II
MATH 201	Discrete Mathematics
MATH 203	Statistics II
MATH 212	Linear Algebra
MATH 216	Calculus III

### Scientific Knowledge and Reasoning (SKR)

#### Biology

BIOL 101	General Biology I
BIOL 102	General Biology II
BIOL 105	Anatomy & Physiology I
BIOL 106	Anatomy & Physiology II
BIOL 107	Human Biology
BIOL 111	Contemporary Concepts in Biology
BIOL 112	Introduction to Marine Biology
BIOL 113	Economic Botany: Plants and Society
BIOL 119	Introduction to Biology
BIOL 120	Animal Science
BIOL 140	Science of nutrition
BIOL 203	Microbiology
BIOL 207	Ecology
BIOL 221	Cell and Molecular Biology

#### Chemistry

CHEM 100	Introductory Chemistry
CHEM 101	General Chemistry I
CHEM 102	General Chemistry II
CHEM 201	Organic Chemistry I
CHEM 202	Organic Chemistry II

#### Environmental Science

ENVS 101	Environmental Science
ENVS 116	Environmental Science: Ecosystems and Man
ENVS 117	Environmental Science: Pollution and Solutions

#### Geology

GEOL 101	Physical Geology
GEOL 102	Historical Geology
GEOL 111	Earth Science: Land and Sea
GEOL 112	Earth Science: Air and Space
GEOL 117	Earth Science

#### Physics

PHYS 101	Principles of Physical Science
PHYS 102	Introduction to Physical Science
PHYS 104	Energy, The Environment, & Society
PHYS 107	Technical Physics
PHYS 108	Atmospheric Scientific Concepts
PHYS 115	Astronomy
PHYS 121	Physics for Everyday Life
PHYS 123	General Physics I
PHYS 124	General Physics II
PHYS 201	Physics with Calculus I
PHYS 202	Physics with Calculus II
PHYS 203	Physics with Calculus III
PHYS 241	Forensic Science I

### Technological Competency (TC)

#### Computer Information Systems

CISM 101	Introduction to Computers
CISM 102	Applications on Microcomputer
CISM 114	Fundamentals of Programming

#### Computer Science

CSCI 101	Introduction to Microcomputers
CSCI 110	Technology Literacy

### Society and Human Behavior (SHB)

#### Anthropology/Economics/Geography

ANTH 101	Cultural Anthropology
ECON 100	Introduction to Economics
ECON 101	Principles of Economics: Macro
ECON 102	Principles of Economics: Micro
GEGR 101	World Geography
GEGR 102	Cultural Geography

#### Political Science

POLS 101	American Federal Government
POLS 103	Introduction to Political Science
POLS 206	Introduction to International Politics

#### Psychology

PSYC 101	General Psychology
PSYC 102	Child Psychology
PSYC 211	Psychology of Human Development
PSYC 212	Psychology of the Adolescent
PSYC 215	Psychology of Aging

#### Sociology

SOCI 101	Introduction to Sociology
SOCI 102	Sociology of the Family
SOCI 104	Social Problems
SOCI 130	Society, Ethics, and Technology

## GENERAL EDUCATION ELECTIVES

### Humanistic Perspective (HUP)

#### *Art/Music/Theatre*

ARTS 101	Art Appreciation
ARTS 103	Art History I
ARTS 113	History of Photography
ARTS 203	Art History II
MUSI 101	Music Appreciation
MUSI 118	American Popular Music
MUSI 128	History of Music
MUSI 133	History of Jazz and Pop Music
MUSI 201	American Music
THEA 101	Theatre Appreciation
THEA 201	Theater History

#### *English/Literature*

ENGL 100	Readings in Literature
ENGL 103	Survey of World Literature
ENGL 203	Literature by Women
ENGL 205	Masterpieces of Western Literature I
ENGL 206	Masterpieces of Western Literature II
ENGL 208	Images of Women in Literature
ENGL 209	American Literature I
ENGL 210	American Literature II
ENGL 213	Non-Western Literature
ENGL 215	Immigrant Voices in American Literature
ENGL 219	Modern American Literature
ENGL 221	Short Story
ENGL 222	Drama
ENGL 223	Poetry
ENGL 224	The Romantic Era in American Literature
ENGL 225	Twentieth Century American Authors
ENGL 226	Introduction to Latino Literature
ENGL 230	Major American Writers
ENGL 235	American Film Classics
ENGL 236	Contemporary American Film
ENGL 241	Survey of African American Literature
ENGL 243	The Freedom Papers: Britain's Other Literary Treasures
ENGL 248	LGBTQ+ Authors and Filmmakers

#### *Foreign Language*

AMSL 101	American Sign Language I
AMSL 102	American Sign Language II
CHMA 101	Elementary Chinese: Mandarin
FREN 101	Elementary French I
FREN 102	Elementary French II
FREN 201	Intermediate French I
GRMN 101	Elementary German I
ITAL 101	Elementary Italian I
ITAL 102	Elementary Italian II
SPAN 101	Elementary Spanish I
SPAN 102	Elementary Spanish II
SPAN 201	Intermediate Spanish I
SPAN 202	Intermediate Spanish II

#### *Philosophy*

PHIL 101	Introduction to Philosophy
PHIL 102	Ethics
PHIL 150	Critical Thinking
PHIL 204	Contemporary Moral Issues
PHIL 210	Ancient and Medieval Philosophy

#### *Religion*

RELG 101	Perspectives on Religion
RELG 102	World Religions
RELG 103	Introduction to Asian Religions

### Historical Perspective (HSP)

#### *History*

HIST 101	Western Civilization I
HIST 102	Western Civilization II
HIST 103	World History I
HIST 104	World History II
HIST 113	Latin American History
HIST 117	African American History
HIST 201	United States History I
HIST 202	United States History II

### Global and Cultural Awareness (GCA)

#### *English/Literature*

ENGL 103	Survey of World Literature
ENGL 109	Survey of Classical Greek and Roman Literature
ENGL 201	British Literature I
ENGL 202	British Literature II
ENGL 203	Literature by Women
ENGL 208	Images of Women in Literature
ENGL 213	Non-Western Literature
ENGL 215	Immigrant Voices in American Literature
ENGL 226	Introduction to Latino Literature
ENGL 240	Introduction to Children's Literature
ENGL 241	Survey of African American Literature
ENGL 248	LGBTQ+ Authors and Filmmakers

#### *Foreign Language*

AMSL 102	American Sign Language II
FREN 102	Elementary French II
FREN 201	Intermediate French I
SPAN 201	Intermediate Spanish I
SPAN 202	Intermediate Spanish II

#### *Geography*

GEGR 101	World Geography
GEGR 102	Cultural Geography
GEGR 110	Geography of North America

#### *History*

HIST 103	World History I
HIST 104	World History II
HIST 113	Latin American History
HIST 117	African American History
HIST 121	The Holocaust

#### *Music*

MUSI 133	History of Jazz and Pop Music
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#### *Religion*

RELG 102	World Religions
RELG 103	Introduction to Asian Religions

#### *Sociology*

SOCI 101	Introduction to Sociology
SOCI 102	Sociology of the Family
SOCI 104	Social Problems
SOCI 207	Social Minorities and Intergroup Relations

#### *Social Science*

ANTH 101	Cultural Anthropology
ANTH 103	Cultural Diversity in the United States

Revised 6/2025

# 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 14 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 14 of this catalog, are accurate through June 30, 2026.

## Accounting

### **ACCT 101 Accounting I**

**4 Lecture Hours, 4 Credits**

**Prerequisites or Corequisites: MATH 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.

### **ACCT 102 Accounting II**

**4 Lecture Hours, 4 Credits**

**Prerequisites: ACCT 101**

A continuation of ACCT 101, this course offers a study of the basic principles of accounting, typical to partnerships and corporations, such as the nature and formation of the corporation, capital stock entries, capital earnings, and dividends. Cash Flow Statements are also covered in detail.

### **ACCT 201 Intermediate Accounting I**

**4 Lecture Hours, 4 Credits**

**Prerequisites: ACCT 102**

Covers such topics as financial statements, balance sheets, income statements, retained earnings statements, accounting processes, receivables, inventories, plant assets, intangibles, and current liabilities.

### **ACCT 202 Intermediate Accounting II**

**4 Lecture Hours, 4 Credits**

**Prerequisites: ACCT 201**

Covers such topics as investments, bonds and funds, long-term liabilities, paid-in capital, financial statement analysis, and cash-flow reporting.

### **ACCT 207 Accounting Information Systems**

**2 Lecture Hours, 2 Lab Hours, 3 Credits**

**Prerequisites: CSCI 119; CISM 120**

**Course Fee: Q**

This course is designed to introduce the accounting student to the purpose and effective management of information systems widely used in the accounting environment. Students learn the principles of accounting information systems. Students will document business processes, review source documents, assess business transaction cycles and processing within the accounting information system, understand and apply data analytics to accounting information systems generated data and reports. The principles of internal control will be applied to business systems and information technology. This course is designed to prepare students for the Intuit QuickBooks Certified User exam.

### **ACCT 221 Managerial Accounting**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ACCT 102**

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.

### **ACCT 231 Federal Income Taxes**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060 or ENGL 100, MATH 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.

## Agriculture

### **AGRI 105 Introduction to Agricultural Science**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060**

The course introduces students to career opportunities and the general concepts of horticulture which include plant taxonomy, physiology, crops, and their general management.

### **AGRI 106 Plant Science**

**4 Lecture Hours, 4 Credits**

**Prerequisites: ENGL 060**

Designed to familiarize the student with the factors that limit plant growth such as light, water, temperature, and nutrients. Students identify the horticulture relationships of plants to botanical anatomy and function.

### **AGRI 107 Plant Propagation**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060**

Acquaints the student with the techniques and facilities needed for plant propagation in the greenhouse and nursery industry.

### **AGRI 108 Herbaceous Plants**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060**

Emphasizes the identification of many annual, biennial, and perennial herbaceous plants and their usage in design layouts.

### **AGRI 109 Plant Materials**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060**

**Equivalent: OH-106**

Emphasizes identification and characteristics of many of the native and cultivated plants used in landscape designs.

### **AGRI 111 Identification Interior Plants**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060**

Acquaints the student with the identification of foliage and tropical plants. Students explore the usage of foliage plants in interior design layouts and become familiar with the maintenance requirements for successful growth of these plants.

**AGRI 114 Internship****1 Lecture Hour, 1 Credit****Prerequisites: ENGL 060**

Students will apply knowledge they gained in class work to “real world” situations. The student is expected to present a journal of their work experience for grading.

**AGRI 201 Agricultural Marketing****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060**

Covers the practices used in the marketing of farm products. Principles of farm cooperatives, farm markets and stores, crop planning, methods of distribution, research procedures and marketing problems facing the farmer today will be discussed.

**AGRI 202 Landscape Design****3 Lecture, 3 Lab, 4 Credits****Prerequisite: AGRI 109**

Offers an introduction to landscape composition for the private home and small industry. Students use drafting equipment to prepare a landscape design and learn criteria for developing small residential landscapes. Lecture topics supported by a lab component.

**AGRI 203 Fruit Production****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060**

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

**AGRI 206 Vegetable Production****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060**

Acquaints the student with the cultural requirements of the important vegetable crops produced in Southern New Jersey. Discussions included are: nutritional requirements, disease, and insect problems, harvesting procedures and methods of weed control.

**AGRI 207 Agriculture Pest Control****4 Lecture Hours, 4 Credits****Prerequisites: ENGL 060**

Designed to introduce the student to the fundamental theories, principles, and practices of pest control for agriculture and ornamental horticulture crops. Diagnostic skills for insect, disease, and weed identification are presented.

**AGRI 209 Introduction to Soil Science****4 Lecture Hours, 4 Credits****Prerequisites: ENGL 060**

Acquaints the student with soil concepts, plant nutrients, and their influence on plant growth. Emphasis will also be placed on soil testing, nutrient deficiency symptoms, and fertilizer requirements.

**AGRI 211 Greenhouse Management****4 Lecture Hours, 4 Credits****Prerequisites: ENGL 060**

Covers all aspects of the greenhouse business including construction, heating, cooling, and ventilation of a modern greenhouse facility.

**AGRI 213 Nursery Production****3 Lecture Hours, 3 Credits****Prerequisites: AGRI 109**

This course is designed to introduce students to the principles and practices of nursery production. Students will be exposed to the wide array of propagation facilities available for the success of producing woody plants from seed, cutting, layering, grafting, and micro propagation. Students will also study the economic aspects of operating a commercial nursery.

## American Sign Language

**AMSL 101 American Sign Language I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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. General Education Category: Humanities – Humanistic Perspective (HUP), General Education Category: Global and Cultural Awareness (GCA)

**AMSL 102 American Sign Language II****3 Lecture Hours, 3 Credits****Prerequisites: AMSL 101**

A continuation of ASL 101, this course emphasizes continuing development of skills using ASL as well as extensive interaction with the deaf community. General Education Category: Humanities – Humanistic Perspective (HUP); General Education Category: Global and Cultural Awareness (GCA)

## Anthropology

**ANTH 101 Cultural Anthropology****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course is an introduction to the complexity of human life and the anthropologist’s view of the essential aspects of culture. The course stresses the variety of ways that human groups have organized their societies as alternatives for solving common human problems. General Education Category: Social Sciences – Society & Human Behavior (SHB)

**ANTH 103 Cultural Diversity in the United States****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

An exploration of multiculturalism, inclusiveness, tolerance, and a celebration of different lifeways in the United States. Critical understanding and reflective analysis will be used to broaden our perspectives on these issues. General Education Category: Social Sciences – Society & Human Behavior (SHB)

## Art

**ARTS 101 Art Appreciation****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course is an introduction to the fundamentals of creating art and a basic understanding of past and recent painting, sculpture, architecture, photography, digital and other media. Students will examine the visual elements and design principles necessary to create works of art. Students will discern a work’s subject matter and content through writing criticisms of art or working hands on exploring the creative process. Students may be expected to go on a field trip to an art museum or gallery. General Education Category: Humanities – Humanistic Perspective (HUP)

**ARTS 103 Art History I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course is based on a chronological presentation of Western visual arts from prehistory (cave paintings) to the Renaissance. The focus will be on the historical and cultural context of the works of art. The class will discuss how the visual arts functioned and were viewed at the time of their creation. The role and status of the artist, movement and the patron in each culture or period will be examined. Students may be expected to go on a field trip to an art museum or gallery. General Education Category: Humanities – Humanistic Perspective (HUP)

**ARTS 105 Drawing I**  
**3 Lecture Hours, 3 Credit Hours**  
**Prerequisites: None**

This is an introductory course that is part of the formal foundation for studying art. This class will focus on the mastery of drawing techniques such as gesture, contour and modeling with light. The students will learn the techniques of working with pencil, charcoal, pen, ink and pastels. The basic elements of art and compositional strategies will be explored. Studio hours to be announced. Some supplies are to be furnished by the student.

**ARTS 107 Painting I**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: None**

This course will assist students in developing an understanding of traditional painting methods, materials, and terminology through painting still life subject matter in oil or acrylic media. This course covers the fundamentals of composition, materials, and methods through a combination of instruction and studio experience. Studio hours to be announced. Some supplies are to be furnished by the student.

**ARTS 109 Drawing and Painting**  
**3 Lecture Hours, 3 Credit Hours**  
**Prerequisites: None**

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.)

**ARTS 113 History of Photography**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: ENGL 060 or ENGL 100**

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. General Education Category: Humanities – Humanistic Perspective (HUP)

**ARTS 117 Introduction to Digital Photography**  
**3 Lecture Hours, 3 Credit Hours**  
**Prerequisites: ENGL 060 or ENGL 100**

This course is an introduction to digital photography. Current trends in image making are examined from aesthetic, cultural, social, and political points of view. Topics include elements of basic camera operation, exposure, lighting, composition, visual literacy, and investigation of the relationships between elements of form, shape, line, and color. A suitable camera that is capable of operating in PSAM modes is required. These modes are also known as PTVAvM on some models. A DSLR or mirrorless type is preferred. Contact the instructor for details.

**ARTS 119 Introduction to Adobe Photoshop**  
**3 Lecture Hours, 3 Credit Hours**  
**Prerequisites: ARTS 117**

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.

**ARTS 121 Introduction to Art Therapy & Method**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: ENGL 060 or ENGL 100**

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

**ARTS 123 Introduction to Art Therapy Practice**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: ARTS 121**

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

**ARTS 125 Printmaking**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: None**

A generalized intro to the various methods of printmaking. The student will have the opportunity to work with linoleum plates and wood cut printing processes. The student will also be able to do mono prints using the press. This course concentrates on creative imaging and expression through the medium of printmaking.

**ARTS 127 Sculpture I**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: None**

This is an introductory sculpture course. Students will work in clay, plaster, and wire. Students will work from a live model to learn portraiture and proportions of the human form. Demonstration using basic sculptural materials will be provided

**ARTS 129 2-Dimensional Design**  
**3 Lecture Hours, 3 Credit Hours**  
**Prerequisites: ARTS 105**

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

**ARTS 131 Color Theory**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: ENGL 050**

This course will expand the student's understanding of color through a thorough exploration of fundamental color theory principles. Subjective feeling and objective color principles will also be addressed.

**ARTS 134 Life Drawing**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: ARTS 105**

Provides instruction in drawing the human figure. A live model will be used during class time. There is an emphasis on a variety of approaches. Dynamics, proportion, anatomy, volume and structure are investigated through various drawing methods and selected materials.

**ARTS 203 Art History II****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course is a continuation of Art History I from the Renaissance onward to the present day. Major styles and movements will be examined: baroque, romanticism, realism, and modernism. The context of the arts will be presented in a chronological, cultural, and historical format. Students will be expected to go on a field trip to an art museum or gallery. General Education Category: Humanities – Humanistic Perspective (HUP)

**ARTS 205 Drawing II****3 Lecture Hours, 3 Credits****Prerequisites: ARTS 105**

This course builds on what was accomplished in Fundamentals of Drawing I and leads the student to further explore the drawing medium. Greater depth of ideas and more sophisticated technical execution are emphasized.

**ARTS 207 Painting II****3 Lecture Hours, 3 Credits****Prerequisites: ARTS 107**

This course builds on what was mastered in Painting I. The development of an individualized style in form and content is explored and encouraged. Students also have the opportunity to complete works that involve the figure and the environment.

**ARTS 209 3-Dimensional Design****3 Lecture Hours, 3 Credits****Prerequisites: ARTS 105**

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

**ARTS 217 Intermediate Digital Photography****3 Lecture Hours, 3 Credits****Prerequisites: ARTS 117**

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 suitable camera that is capable of operating in PSAM modes is required. These modes are also known as PTvAvM on some models. A DSLR or mirrorless type is preferred. Contact the instructor for details.

**ARTS 227 Sculpture II****3 Lecture Hours, 3 Credits****Prerequisites: ARTS 127**

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

## Automotive Technology

**AUTO 101 Auto Service Fundamentals****1 Lecture Hours, 5 Lab Hours, 2 Credits****Prerequisites: ENGL 060 or ENGL 100****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

**AUTO 103 Front End Suspension****1 Lecture Hours, 10 Lab Hours, 3 Credits****Prerequisites: AUTO 101 and AUTO 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

**AUTO 105 Brakes and Hydraulic Controls****1 Lecture Hours, 10 Lab Hours, 3 Credits****Prerequisites: AUTO 101 and AUTO 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

**AUTO 107 Automotive Electrical Systems****2 Lecture Hours, 15 Lab Hours, 5 Credits****Prerequisites: Permission to the 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

**AUTO 110 Engine Repair and Engine Management****2 Lecture Hours, 10 Lab Hours, 4 Credits****Prerequisites: AUTO 105 and AUTO 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.

**AUTO 111 Heating, Ventilation and Air Conditioning****1 Lecture Hours, 10 Lab Hours, 3 Credits****Prerequisites: AUTO 105 and AUTO 103****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.

**AUTO 123 Automotive Electronics****2 Lecture Hours, 10 Lab Hours, 4 Credits****Prerequisites: AUTO 107****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).

**AUTO 135 Manual Transmissions**  
**1 Lecture Hours, 10 Lab Hours, 3 Credits**  
**Prerequisites: AUTO 103 and AUTO 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.

**AUTO 139 Automatic Transmission Systems**  
**1 Lecture Hours, 10 Lab Hours, 3 Credits**  
**Prerequisites: AUTO 110, AUTO 111, and AUTO 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.

**BIOL 107 Human Biology**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: ENGL 060**  
**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. Lecture topics supported by a lab component. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**BIOL 111 Introduction to Biology**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: ENGL 060**  
**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. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**BIOL 112 Introduction to Marine Biology**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: ENGL 060**  
**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. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**BIOL 113 Economic Botany: Plants and Society**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: ENGL 060**  
**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. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**BIOL 118 Introduction to Equine Science**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: ENGL 060, BIOL 120**  
**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.

## Biology

**BIOL 101 General Biology I**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: ENGL 060, HS Biology**  
**Course Fees: C, H**

An integrated course with laboratory exercises closely correlated to the lectures dealing with the atomic basis of life and biomolecules; cell structure and function; cell metabolism; movement of materials across the membranes; cellular respiration; photosynthesis; evolution; and population biology and ecology. Lecture topics supported by a lab component.

**BIOL 102 General Biology II**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: BIOL 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. Lecture topics supported by a lab component. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**BIOL 105 Anatomy & Physiology I**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: HS Chemistry or CHEM 100 or CHEM 101**  
**and HS Biology or BIOL 101 or BIOL 107 or BIOL 111**  
**and ENGL 060**

**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 system. Lecture topics supported by a lab component. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**BIOL 106 Anatomy & Physiology II**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: BIOL 105 with a grade of C or better**  
**Course Fees: C, H**

Building on the concepts of BIOL.105, BIOL.106 investigates the endocrine, lymphatic, digestive, excretory, respiratory, circulatory and reproductive systems of the human body. Lecture topics supported by a lab component.

**BIOL 120 Animal Science****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: ENGL 060****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. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**BIOL 140 Science of Nutrition****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: ENGL 060****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. Laboratory exercises will support lecture topics. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**BIOL 201 Genetics****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: MATH 050 and BIOL 101 or CHEM 101**

Offers a study of the principles of transmission and molecular genetics, with emphasis on human genetics. Laboratory sessions will provide students with basic experience in karyotype preparation, DNA and protein electrophoresis including sample preparation and data interpretation.

**BIOL 203 Microbiology****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: BIOL 102 & BIOL 106****Course Fees: D, H**

This course involves the study of the structure and function of microorganisms in nature and disease 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 including pure culture study and disinfection. Throughout the course there is a reference to microbial disease and its elicitation of the immunological response. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**BIOL 204 Introduction to Infectious Disease****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060, MATH 050**

This introductory course will include a discussion of the bacteria, parasites, viruses, and other agents causing infectious diseases; the role of the health professional in infectious disease control; a study of the incidence, distribution, and control of disease in populations and the emergence and reemergence of infectious diseases.

**BIOL 205 Basic Pathology****3 Lecture Hours, 3 Credits****Prerequisites: BIOL 106**

Focuses on the molecular, cellular and tissue alterations which contribute to disease processes. Students will become familiar with the processes involved in cell injury and repair, inflammation, and healing. Tumor behavior, hemodynamic derangements and disorders of selected organ systems will be discussed.

**BIOL 207 Ecology****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: BIOL 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. Population dynamics, nutrient cycling, community and ecosystem structure, evolution, natural selection and current environmental issues will be covered. A majority of the laboratory sessions are devoted to the investigation of ecological processes in natural environments.

**BIOL 212 Wetlands Field Ecology****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: ENGL 060 and Any lab science****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.

**BIOL 216 Biomechanics****3 Lecture Hours, 3 Credits****Prerequisites: BIOL 106 with a grade of C or better**

The objective of this course is to introduce students to concepts of mechanics as they apply to human movement, particularly those pertaining to exercise and sport. A qualitative approach will be used to analyze the anatomical and mechanical principles that apply to the body involved in physical activity.

**BIOL 218 Equine Capstone Practicum****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: BIOL 118****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. Laboratory exercises will support lecture topics

**BIOL 221 Cell and Molecular Biology****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: Minimum C grade in BIOL 102 or BIOL 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. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

## Business

### **BUSN 101 Introduction to Business**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

This course introduces the world of business in the economic system based on free private enterprise. The topics covered include forms of business ownership, business environments, marketing principles, and business finance.

### **BUSN 105 Personal and Professional Branding**

**1 Lecture Hours, 1 Credits**

**Prerequisites:** None

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.

### **BUSN 109 Business Law I**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

This course is intended to provide you with an understanding of the law as it pertains to business with a focus on the courts, ethics, regulation, and contracts.

### **BUSN 110 Business Law II**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** BUSN 109

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 a special emphasis on the Uniform Commercial Code.

### **BUSN 114 Introduction to Entrepreneurship**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

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.

### **BUSN 200 Principles of Management**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

This course introduces the planning, organizing, staffing, and controlling functions of the management process. Topics include formulating goals and objectives, decision making, organizational structures, authority, leadership, motivation, and communication.

### **BUSN 201 Small Business Management**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** BUSN 200

Provides complete coverage of small business operations with the proper balance between business functions and management functions. Topics include how to obtain financing, how to evaluate a business that is for sale, how to market a small business, how to prepare a business plan as well as how to recognize business problems and develop solutions.

### **BUSN 206 Retailing**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

Includes the principles of understanding successful retailing including the analysis of a store location, equipment and layout, organization of market contracts, selecting, buying, and receiving merchandise, and the development of a retail sales program.

### **BUSN 226 Introduction to International Business**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

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

### **BUSN 234 Strategic Management**

**4 Lecture Hours, 4 Credits**

**Prerequisites:** BUSN 101 and BUSN 200

This capstone course synthesizes the business skills with the need to successfully manage a business enterprise by developing and effectively implementing a sound business strategy

### **BUSN 238 Principles of Advertising**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

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.

### **BUSN 242 Principles of Selling**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

Techniques involved in personal selling are discussed. Prospecting, planning, and executing sales presentations, demonstrations, answering objections, closing sales and building good will are considered.

### **BUSN 246 Business Ethics**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** BUSN 200

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.

### **BUSN 250 Principles of Marketing**

**3 Lecture Hours, 3 Credits**

**Pre-Requisites:** ENGL 060 or ENGL 100

This course provides an overview of the theory and practice of marketing within an organization including its societal context. The major functions of marketing are covered from the perspective of strategies that address both the global and domestic environments ensuring a competitive advantage.

### **BUSN 254 Human Resources Management**

**3 Lecture Hours, 3 Credits**

**Pre-Requisites:** ENGL 060 or ENGL 100

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.

**BUSN 258 Social Media Marketing and Web Analytics****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**BUSN 262 Organizational Behavior****3 Lecture Hours, 3 Credits****Prerequisites: BUSN 200**

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.

**BUSN 266 Organizational Development****3 Lecture Hours, 3 Credits****Prerequisites: BUSN 200**

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.

**CERS 106 Ceramic Technologies****3 Lecture Hours, 3 Credits****Prerequisites: CERS 101**

A lecture and laboratory course designed to initiate investigation of basic clay and glaze materials. The nature of clays and the relationship among clay bodies, slips and glazes is explored.

**CERS 108 Craft Business Practices****3 Lecture Hours, 3 Credits****Prerequisites: CERS 103 & CERS 104**

Provides students with the opportunity to write their own business plans. Specific concerns regarding studio management, marketing research, advertising, gaining admission to the craft market show circuit, how to write a resume and prepare slide presentations will be addressed.

**CERS 110 Clay Co-Op Experience - Gallery****3 Lecture Hours, 3 Credits****Prerequisites: CERS 102**

Gives the student practical experience in operating a gallery. This course is designed to give students a 135-hour internship experience to learn all facets of gallery management, including planning and installing exhibitions and marketing and retailing in a craft environment. Students will meet with the instructor of Craft Business Practices who will organize the work schedule for the gallery. Students are expected to work nine hours a week for fifteen weeks in the gallery

**CERS 112 Clay Co-Op Experience - Studio****3 Lecture Hours, 3 Credits****Prerequisites: CERS 102 & CERS 106**

This course is designed to offer students a 135-hour internship experience which focuses on all facets of studio management including how to keep track of inventory, how to maintain and order supplies, and how to run a safe and efficient studio. Students will meet with the instructor of Ceramics III, who will organize the work schedule. Students are expected to work nine hours a week for fifteen weeks in the studio

## Ceramics

**CERS 101 Ceramics I****3 Lecture Hours, 3 Credits****Prerequisites: None**

Introduces students to traditional and contemporary hand-building techniques, such as pinch, coil and slab. Techniques in preparation of glazes, in firing, and in kiln procedures will be demonstrated.

**CERS 102 Ceramics II****3 Lecture Hours, 3 Credits****Prerequisites: CERS 101**

Builds on what was mastered in Ceramics I and introduces the student to the wheel. Projects will include both hand building and wheel techniques.

**CERS 103 Ceramics III****3 Lecture Hours, 3 Credits****Prerequisites: CERS 101 & CERS 102**

Focuses on both hand building and wheel techniques to further advance his or her skills. Emphasis is placed on creating work that is not only technically accomplished but communicates the student's personal message

**CERS 104 Sculptural Ceramics****3 Lecture Hours, 3 Credits****Prerequisites: CERS 101**

Investigates the use of clay to create sculptural forms. Using basic building methods, students will be involved with more complex forms requiring special construction considerations. Students will learn alternative surface treatment and firing techniques.

## Certified Clinical Medical Assistant

**CCMA 101 Foundations of Medical Assisting****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100; CCMA 101 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.

**CCMA 103 Structure of the Human Body I****2 Lecture Hours, 2 Credits****Prerequisites: ENGL 060 or ENGL 100; CCMA 103 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.

**CCMA 104 Structure of the Human Body II****2 Lecture Hours, 2 Credits****Prerequisite: CCMA 103****Corequisites: CCMA 110, CCMA 118, CCMA 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.

**CCMA 107 Medical Assistants in the Practice Lab I****2 Lecture Hours, 1 Credits****Prerequisites: ENGL 060 or ENGL 100; CCMA 107 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.

**CCMA 108 Medical Assistants in the Practice Lab II****2 Lecture Hours, 1 Credits****Prerequisites: C or better in CCMA 107 and NTRN 101**

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.

**CCMA 110 Pharmacology in Medical Assisting****2 Lecture Hours, 1 Credits****Prerequisites: C or better in CCMA 101 and CCMA 103****Corequisite: CCMA 104**

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.

**CCMA 114 Medical Assisting Front Office Procedures****2 Lecture Hours, 2 Credits****Prerequisites: C or better in CCMA 101 and HPRF 140**

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.

**CCMA 118 Fundamentals of ECG/EKG****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: C or better in CCMA 101 and CCMA 103****Corequisites: CCMA 104 and CCMA 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].

**CCMA 120 ECG/EKG Clinical****45 Clinical Hours, 1 Credits****Corequisites: CCMA 118 and CCMA 131 – all courses require a C or better**

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.

**CCMA 125 Fundamentals of Phlebotomy****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: C or better in CCMA 101 and CCMA 103****Corequisites: CCMA 104 and CCMA 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.

**CCMA 128 Phlebotomy Clinical****45 Clinical Hours, 1 Credits****Corequisites: CCMA 125 and CCMA 131; all courses must have a C or better**

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.

**CCMA 131 CCMA Capstone Experience****90 Clinical Hours, 2 Credits****Prerequisites: CCMA 120 and CCMA 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.

## Civil Engineering Technology

**CETE 101 Introduction to Materials****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060**

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.

**CETE 108 Introduction to Surveying****2 Lecture Hours, 3 Lab Hours, 2 Credits****Prerequisites: MATH 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.

**CETE 201 Codes, Contracts, and Specifications**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060

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.

**CETE 203 Applied Statics**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** MATH 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

**CETE 204 Structural Systems**

**2 Lecture Hours, 3 Lab Hours, 3 Credits**

**Prerequisites:** CETE 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.

**CETE 205 Applied Strength of Materials**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** CETE 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.

**CETE 206 Evidence and Procedures for Boundary Location**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** CETE 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.

**CETE 207 Hydraulics**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** MATH 110

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.

**CETE 208 Route and Construction Surveying**

**2 Lecture Hours, 3 Lab Hours, 3 Credits**

**Prerequisites:** CETE 108 or permission

**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.

**CETE 209 Cost Estimating**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** CETE 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.

**CETE 210 Advanced Hydraulics**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** CETE 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 Hours, 3 Credits**

**Prerequisites:** CETE 108, ETEC 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.

**CETE 215 Foundations of Planning and Environmental Design**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 101 or ENGL 101E

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.

## Child Advocacy

**CHAD 101 Introduction to Child Advocacy**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

This course provides students with an overview of the field of child advocacy. The role of the child advocate is explored in numerous professional settings. Ethical, legal, and professional responsibilities are discussed.

**CHAD 102 The Ecological Systems and the Developing Child**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

This course will provide the students with an understanding of major issues in normal development from infancy through adolescence, with a particular focus on areas that are most germane to current child advocacy efforts in child protection, juvenile justice, and custody determination.

**CHAD 103 Cultural Competencies in Child Welfare****3 Lecture Hours, 3 Credits****Prerequisites:** ENGL 060 or ENGL 100

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

**CHAD 104 Children and Justice****3 Lecture Hours, 3 Credits****Prerequisites:** ENGL 060 or ENGL 100

This course provides students with an understanding of how the law relates to children's public good.

**CHAD 105 Child Advocacy Fieldwork****3 Lecture Hours, 3 Credits****Prerequisites:** CHAD 101

This course is designed to give the student a veridical understanding of social work practice. Students are assigned to various local social service agencies. A pre-assigned person at the local

**CHEM 102 General Chemistry II****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites:** CHEM 101 with a grade of C or better**Course Fees:** C, H

This is the second semester of a two-semester sequential course presenting the basic principles involved in the study of chemistry. Topics include properties of solutions, chemical kinetics, chemical equilibrium, acid-base equilibria, equilibria of sparingly soluble salts, chemical thermodynamics, electrochemistry, oxidation-reduction, nuclear chemistry, thermochemistry and a brief introduction to organic chemistry. Laboratory work supports lecture topics. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**CHEM 115 Cannabis: A Chemistry Perspective****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites:** CHEM 101**Course Fees:** C, H

This course focuses on the chemistry of cannabis. Topics discussed in this course cover concepts and techniques relevant to large-scale cannabis manufacturing. These topics include extraction, post-processing, distillation, chromatographic separation, and formulation. The techniques and approaches to clinical chemistry. Additionally, analytical chemistry concepts relating to testing and compliance will be covered. This course includes a lab component.

**CHEM 201 Organic Chemistry I****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites:** CHEM 102**Course Fees:** C, H

This is the first semester of a two-semester sequential course presenting the basic principles of organic chemistry. Topics include bonding and molecular structure, functional groups, an introduction to organic reactions, nomenclature of alkanes and cycloalkanes, conformational analysis, stereochemistry, mechanisms of nucleophilic substitution and elimination reactions, properties and synthesis of alkenes, alkynes, alcohols, and ethers, Fourier transform infrared (FTIR) spectroscopy and H-1 and C-13 nuclear magnetic resonance (NMR) spectroscopy. Laboratory exercises involve practice in microscale synthesis, separation, purification and analysis techniques of organic compounds including hands-on operation of modern instrumental methods such as gas chromatography (GC), FTIR and NMR. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**CHEM 202 Organic Chemistry II****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites:** CHEM 201**Course Fees:** C, H

This is the second semester of a two-semester sequential course presenting the basic principles of organic chemistry, with a focus on the study of the properties and synthesis of the major organic functional groups including conjugated alkenes and alkynes, aromatic compounds, aldehydes, ketones, carboxylic acids, and amines. Lecture also covers ultraviolet (UV) spectroscopy as an analytical tool for conjugated systems. Laboratory exercises involve further practice in microscale synthesis, separation, purification and analysis techniques of representative compounds from the major functional groups covered in lecture, including hands-on operation of modern instrumental methods such as FTIR, NMR and UV spectroscopy. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

## Chemistry

**CHEM 100 Introductory Chemistry****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites:** MATH 050 or MATH 051 or appropriate score on Algebra section of Placement Exam and ENGL 060**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. Laboratory exercises support lecture topics. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**CHEM 101 General Chemistry I****3 Lecture Hours, 3 Lab Hours****4 Credits****Prerequisites:** ENGL 060, MATH 105, CHEM 100 (or HS Chemistry)**Course Fees:** C, H

This is the first semester of a two-semester sequential course presenting the basic principles involved in the study of chemistry. Topics include matter and measurement, atomic theory, nomenclature, chemical reactions and stoichiometry, reactions in aqueous solutions, thermochemistry, electronic structure of atoms, periodicity, chemical bonding, molecular geometry and bonding theories, gas laws, liquids and intermolecular forces, and solids and modern materials. Basic laboratory work supports lecture topics. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

## Chinese

### **CHMA 101 Elementary Chinese Mandarin**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

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. General Education Category: Humanities – Humanistic Perspective (HUP)

## Computer Information Systems

### **CISM 101 Introduction to Computers**

**3 Lecture Hours, 3 Lab Hours, 4 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

**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. General Education Category: Technology – Technological Competency or Information Literacy (TC/IL)

### **CISM 102 Applications on Microcomputer**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** CISM 101

Covers the more advanced features of word processing and spreadsheets that are not covered in CISM101 as well as database software. The integration of application software will also be covered. General Education Category: Technology – Technological Competency or Information Literacy (TC/IL)

### **CISM 114 Fundamentals of Programming**

**3 Lecture Hours, 3 Lab Hours, 4 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

**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. General Education Category: Technology – Technological Competency or Information Literacy (TC/IL)

### **CISM 119 Spreadsheets - Excel**

**3 Lecture Hours, 3 Lab Hours, 4 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

**Course Fees:** A, H

This course is a comprehensive presentation of the Microsoft Excel for Windows spreadsheet application software package. The course covers all 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.

### **CISM 151 Web Development - HTML/CSS**

**3 Lecture Hours, 3 Lab Hours, 4 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

**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.

### **CISM 152 Advanced Web Development**

**2 Lecture Hours, 2 Lab Hours, 3 Credits**

**Prerequisites:** CISM 151

**Course Fees:** A, G

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

### **CISM 200 Principles of Information Security**

**3 Lecture, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

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

### **CISM 207 Management Information Systems**

**2 Lecture Hours, 2 Lab, 3 Credits**

**Prerequisites:** CISM 101 and BUSN 103 or CISM 210 or ECON 100 or ECON 101 or ECON 102

**Course Fees:** C, H

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.

### **CISM 210 Relational Databases**

**3 Lecture, 3 Lab Hours, 4 Credits**

**Prerequisites:** CISM 101

**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.

### **CISM 211 Database Management**

**4 Lecture Hours, 4 Credits**

**Prerequisites:** CSCI 112

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

**CISM 217 Introduction to Networks****4 Lecture Hours, 4 Credits****Prerequisites: None**

Covers the fundamentals of network design and implementation, including cables and devices, widely used network protocols, and features and performances of network operating systems. The focus is on entry-level network support in a multi-level environment.

**CISM 220 IT Help Desk/Technical Support****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: CISM 101****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.

**CISM 233 Routing and Switching Essentials****4 Lecture Hours, 4 Credits****Prerequisites: CISM 217**

This course focuses on initial router configuration, IOS software management, routing protocol configuration, TCP/IP, and explains the principles of routing and the primary routing protocols.

**CISM 234 Scaling Networks****4 Lecture Hours, 4 Credits****Prerequisites: CISM 233**

This course provides a comprehensive, theoretical, and practical approach to learning the technologies and protocols needed to design and implement a converged switched network. Students learn about the hierarchical network design model and how to select devices for each layer. The course explains how to configure a switch for basic functionality and how to implement Virtual LANs, VTP, and Inter-VLAN routing in a converged network. The different implementations of Spanning Tree Protocol in a converged network are presented, and students develop the knowledge and skills necessary to implement a WLAN in a small-to-medium network.

**CISM 235 Connecting Networks****4 Lecture Hours, 4 Credits****Prerequisites: None**

This course examines the WAN technologies and network services required by converged applications in enterprise networks. The course uses the Cisco Network Architecture to introduce integrated network services and explains how to select the appropriate devices and technologies to meet network requirements. Students learn how to implement and configure common data link protocols and how to apply WAN security concepts, principles of traffic, access control, and addressing services. Finally, students learn how to detect, troubleshoot, and correct common enterprise network implementation issues.

**CISM 251 Web Programming****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: CISM 114, CISM 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.

**CISM 264 Database Applications Development****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: CISM 151 and CISM 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.

## Computer Graphic Arts

**COGA 103 Design, Type, and Color****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100****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.

**COGA 115 Foundations of Computer Graphic Arts****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100****Course Fees: 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.

**COGA 118 Introduction to Animation****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: COGA 115****Course Fees: B, G**

In this course, students will learn to use the five primary media types (text, graphics, sound, animations, and video) to create dynamic and visually rich 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.

**COGA 121 Introduction to Electronic Publishing and Typography****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: COGA 115**

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.

**COGA 130 Video and Audio Editing**  
**2 Lecture Hours, 2 Lab Hours, 3 Credits**  
**Prerequisites: COGA 103 and COGA 118**  
**Course Fees: B, G**

This course introduces students to the concepts and practice of editing video and audio using 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. This course is a computer lab-based course with significant hands-on lab time.

**COGA 212 Screen Graphics**  
**2 Lecture Hours, 2 Lab Hours, 3 Credits**  
**Prerequisites: COGA 103 and COGA 118**  
**Course Fees: B, G**

This course provides instruction on the methods of creating graphics for use in web page(s), website design, game design and/or mobile screen design. Students will be introduced to principles of interactive design concepts. Concepts include the issues of resolutions, vector vs. raster graphics, correct use of type and color and creation of graphics used in animations for the screen and web.

**COGA 215 Electronic Illustration I**  
**2 Lecture Hours, 2 Lab Hours, 3 Credits**  
**Prerequisites: COGA 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 use of the basic menus, commands, and tools of electronic illustration software.

**COGA 217 Electronic Image Processing**  
**2 Lecture Hours, 2 Lab Hours, 3 Credits**  
**Prerequisites: COGA 103 and ARTS 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.

**COGA 218 Game and Interactive Authoring**  
**2 Lecture Hours, 2 Lab Hours, 3 Credits**  
**Prerequisites: COGA 103 and COGA 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.

**COGA 219 Web Design**  
**2 Lecture Hours, 2 Lab Hours, 3 Credits**  
**Prerequisites: COGA 103 and COGA 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.

**COGA 220 Advanced Electronic Publishing**  
**2 Lecture Hours, 2 Lab Hours, 3 Credits**  
**Prerequisites: COGA 121**  
**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.

## Communications

**COMM 101 Introduction to Mass Media**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: None**

This course offers an opportunity to investigate, evaluate and appreciate the operation and impact of various forms of mass media and provide insight into the media's daily influence on consumers, politics, education, and cultures

**COMM 103 Technical and Scientific Writing**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: ENGL 101 or ENGL 101E**

This course introduces the principles and mechanics of technical writing and communication, both written and oral. Students will learn specific communication skills associated with crafting technical information and will write and present a series of documents including abstracts, reports, instructions, manuals, and more. General Education Category: Communications – Written and Oral Communication (WOC)

**COMM 104 Business Communication**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: ENGL 101 or ENGL 101E**

This course analyzes verbal and nonverbal communications with a focus on business and how communication skills affect our professional and personal lives. It highlights the theory and practice of interpersonal communication used in the workplace with emphasis on composing clear, concise, and effective business correspondence. Students discuss various types of communication media and the importance of succinct written and oral expression to modern business interactions.

**COMM 106 Essentials of APA Documentation**  
**1 Lecture Hours, 1 Credits**  
**Prerequisites: ENGL 101 or ENGL 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.

**COMM 107 Writing for Electronic Media**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: ENGL 101 or ENGL 101E**

The introduction to the principles and techniques of written formats commonly used in radio, television, and new media. Assignments include development of the treatment, rundown sheet, story board and script.

**COMM 110 Desktop Publishing**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites: None**

This introductory course exposes students to the process of designing and laying out publications (brochures, newsletters, flyers, etc.) using desktop publishing software. Students will be required to write and edit text for all class projects.

**COMM 114 Video and Digital Media I**

**3 Lecture Hours, 3 Credits**

**Prerequisites: COMM 107**

Video and Digital Media I is designed to introduce students to the technical and practical proficiency in television and digital production in complete formats such as news, interviews, music, and drama.

**COMM 115 Sports Communication, Culture, and Identity**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 101E**

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. General Education Category: Global & Cultural Awareness (GCA)

**COMM 118 Introduction to Audio Production**

**3 Lecture Hours, 3 Credits**

**Prerequisites: None**

This course is an introduction to techniques using computer-based music recording and multimedia software found on the Mac OSX platform utilizing Garage band, Logic Pro X, Safari, and Cloud-based file transfer. This course is designed to give the aspiring student a sound pedagogical foundation in the theory and application of computer-based music production.

**COMM 140 Internet Research and Communications**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 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.

**COMM 150 Argumentative and Persuasive Writing**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 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.

**COMM 201 Journalism I**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 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.

**COMM 205 Feature Writing**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 101E, and COMM 201**

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.

**COMM 210 Communication Ethics, A.I., & Media Analysis**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 101E**

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.

**COMM 214 Video & Digital Media Tech II**

**3 Lecture Hours, 3 Credits**

**Prerequisites: COMM 114**

Video & Digital Media Tech II offers students knowledge in advanced applications of digital media equipment to produce programming in a variety of formats while working in remote and studio settings.

**COMM 217 Journalism II**

**3 Lecture Hours, 3 Credits**

**Prerequisites: COMM 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.

**COMM 220 Creative Writing: Non-Fiction**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 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.

**COMM 222 Creative Writing: Fiction**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 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.

**COMM 223 Creative Writing: Poetry**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 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 stanzic patterns. They prepare at least three poems for submission to a magazine or literary journal.

**COMM 225 Why We Write: Writing for Elementary Students**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 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.

**COMM 239 Communications Internship****3 Lecture Hours, 3 Credits****Prerequisites: None**

This course is designed to offer students an internship with local print or broadcast journalism or public relations agencies or offices. Students will work in the participating office and perform a variety of work assignments and experiences tailored to teach students the basics of public relations work.

**COMM 240 Broadcast Media Internship****3 Lecture Hours, 3 Credits****Prerequisites: None**

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

**CSCI 132 Web Page Development I****4 Lecture Hours, 4 Credits****Prerequisites: None**

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

**CSCI 175 Core Client Operating Systems****3 Lecture Hours, 3 Credits****Prerequisites: None**

Students are introduced to the functions and features of installing, configuring, and maintaining Windows as a client operating system. Through hands-on lab instruction, students will learn about installation, administration of resources, managing and troubleshooting hardware devices and drivers, network protocols, and security.

**CSCI 179 PC Support & Services****4 Lecture Hours, 4 Credits****Prerequisites: ENGL 060 or ENGL 100**

Provides students with the technical training and diagnostic skills required to support PC technology in a multi-faceted environment including operating systems essentials, troubleshooting, hardware installation and configuration, printer diagnostics and troubleshooting, and an overview of local area networks. During hands-on lab instruction, students are teamed in small work groups to Prerequisite: apart and rebuild a PC.

**CSCI 205 Programming in C++****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: C or higher in CSCI 121 or CSCI 131****Course Fees: A, H**

Emphasizes problem-solving strategies, analysis of algorithms, and the use of simple data structures to formulate object-oriented solutions to problems. Topics include construction, inheritance, polymorphism, standard libraries, arrays, pointers, and strings. Object-oriented concepts and terminology will be presented with a focus on using classes for program specification and design. Students will learn how classes are declared, defined, used, and organized into coherent designs. Computer laboratory work will supplement the lecture materials.

**CSCI 207 Assembly Language and Computer Organization****3 Lecture Hours, 4 Lab Hours, 4 Credits****Prerequisites: CSCI 131****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. All lecture topics are supported by a lab component.

**CSCI 210 Object Oriented Programming in Java****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: CSCI 205****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. Computer laboratory work will supplement the lecture materials

## Computer Science

**CSCI 101 Introduction to Microcomputers****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

Designed for students with an understanding of computers. This course will introduce Windows file management. Students will work with word processing, spreadsheets, and presentation software.

**CSCI 110 Technology Literacy****2 Lecture Hours, 2 Credits****Prerequisites: None**

This course will focus on ethical, social, and security issues stemming from the use of computers in society. This course will stress ethical decision-making and social responsibility in connection with technology-related concerns. Issues such as security, crime, privacy, intellectual property, and social media will be examined in the context of computer use. Internet browsing, researching, and keyboarding skills will also be introduced and refined. General Education Category: Technology – Technological Competency or Information Literacy (TC/IL)

**CSCI 121 Introduction to Programming****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: MATH 050 or MATH 051 and ENGL 060****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. Computer laboratory work will supplement the lecture materials.

**CSCI 125 Introduction to Data Science****3 Lecture Hours, 3 Credits****Prerequisites: MATH 050, MATH 051, MATH 100 and ENGL 060**

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.

**CSCI 131 HS Programming****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: CSCI 121****Course Fees: A, H**

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

**CSCI 216**     *Objects and Data Abstraction using Java*  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites:** CSCI 210  
**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. Computer laboratory work will supplement the lecture materials.

**CSCI 220**     *Data Structures and Algorithms*  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites:** CSCI 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. Computer laboratory work will supplement the lecture materials.

**CSCI 222**     *Introduction to Android Programming in Java*  
**4 Lecture Hours, 4 Credits**  
**Prerequisites:** CSCI 112

This course will introduce beginner and intermediate Java programming students to programming applications for Android devices such as cell phones and tablet computers. Students will use an Integrated Development environment such as Eclipse to develop simple java applications. The class will explore a variety of development strategies, then explore concepts in hands-on laboratory sessions. Each student will complete an application development project independently using a mix of Android services and features.

**CSCI 225**     *Programming in R*  
**1 Lecture Hours, 2 Lab Hours, 2 Credits**  
**Prerequisites:** MATH 103 and (CSCI 131 or CISM 114)  
**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.

## Criminal Justice

**CRIM 101**     *Introduction to Criminal Justice*  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** ENGL 060 or ENGL 100

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.

**CRIM 105**     *Introduction to Criminology*  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** SOCI 101 or 102; SOCI 201 or 202

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.

**CRIM 109**     *Constitutional Issues in Criminal Justice*  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** ENGL 060 or ENGL 100

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

**CRIM 113**     *Diversity Issues in Criminal Justice*  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** ENGL 060 or ENGL 100

A critical examination of race, gender, and other diversity issues in the development, organization, and operation of the U.S. criminal justice system.

**CRIM 117**     *Crime on the Internet*  
**3 Lecture Hours, 3 Credit**  
**Prerequisites:** ENGL 060 or ENGL 100

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.

**CRIM 121**     *Criminal Justice Leadership*  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** ENGL 060 or ENGL 100

An academic approach to the concepts and theory in the study of supervision and leadership as they relate to individuals, groups, leaders, and organizations.

**CRIM 201**     *Criminal Law*  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** ENGL 060 or ENGL 100

A comprehensive study and evaluation of the purpose of criminal law, statutory definitions of crimes, criminal law responsibility

**CRIM 205**     *Domestic and International Terrorism*  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** ENGL 060 or ENGL 100

A survey of domestic and international terrorism in historical and comparative contexts. Emphasis is on defining types of terrorism, motivation for terrorism, the role of ideology, and threats against democratic processes

**CRIM 209**     *The Administration of Justice*  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** ENGL 060 or ENGL 100

This is a study of legal concepts and procedures from the time of arrest to the time of release, or appeal, from conviction of crime. It focuses on trials, indictments, information, bail, grand juries, and petit juries.

**CRIM 213**     *Criminalistics*  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** ENGL 060 or ENGL 100

A descriptive presentation of forensic science practices, focusing on how enforcement practitioners examine crime scenes to identify, collect and preserve physical evidence.

**CRIM 217**     *Institutional Treatment of the Offender*  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** ENGL 060 or ENGL 100

A survey of the historical and contemporary treatment of convicted offenders in various types of correctional institutions.

**CRIM 221 Criminal Psychopathology****3 Lecture Hours, 3 Credits****Prerequisites: PSYC 101**

An application of contemporary theories of and treatments for criminal psychopathological behavior.

**CRIM 225 Correct Counseling & Interview****3 Lecture Hours, 3 Credits****Prerequisites: PSYC 101**

An overview of the theories and interviewing methods used for counseling in a variety of correctional settings.

**CRIM 229 Crime Analysis & Mapping****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

Overview of and hands-on experience in determining the significant features of crime pattern analysis including mapping and the interpretation of data.

**CRIM 233 Victimology****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

A study of victimization, including the relationships between victims and offenders, the interactions between victims and the criminal justice system, and the connections between victims and other societal groups and institutions.

**CRIM 237 Community Policing and Crime Analysis****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**CRIM 241 Violent Crime in America****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**CRIM 245 Internship in Law Enforcement/Criminal Justice****1 Lecture Hour, 150 Internship Hours, 3 Credits****Prerequisites: 30 college credits/12 in major; 3.0 GPA;****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.

**CRIM 249 Criminal Justice Field Work****3 Lecture Hours, 3 Credits: 3/3****Prerequisites: CRIM 209, PCAD 101, CRIM 201, CRIM 113**

Supervised field experience in a range of agencies related to law enforcement.

**CRIM 253 Criminal Justice Internship****1 Lecture Hours, 150 Coop Hours, 3 Credits****Prerequisites: CRJ Major; 3.0 GPA; Criminal history background check; 60 college credits - 8 in Forensic Sci, 21 in CRJ 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.

**CRIM 261 Organized Crime in America****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

## Cyber Security

**CYBR 201 Core Server Operating System****4 Lecture Hours, 4 Credits****Prerequisites: CSCI 179 Or CSCI 175**

Prepares the student to install and configure Windows Server to create file, print, Web, and Terminal servers. Through hands-on lab instruction, students will learn about installation, access to resources, managing and troubleshooting hardware devices and drivers, network protocols, and security.

**CYBR 226 Network Infrastructure and Implementation****4 Lecture Hours, 4 Credits****Prerequisites: CYBR 201**

Prepares the student for installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows Server family of products.

**CYBR 228 Active Directory Design and Implementation****4 Lecture Hours, 4 Credits****Prerequisites: CYBR 201**

Students are introduced to the principles of Active Directory structure, administration, configuration, and maintenance

**CYBR 229 Linux Installation and Configuration****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 and CSCI 179**

Prepares the student to configure Linux compatible hardware components, select and install a Linux distribution and to configure the Linux software system certification exam 3X0-101 (Installation and Configuration - Level 1).

**CYBR 236 Cloud +****2 Lecture Hours, 4 Lab Hours, 4 Credits****Prerequisites: CISM 217**

Cloud+ provides an in-depth knowledge of cloud computing and is intended to serve the needs of students and professionals who are interested in mastering the fundamentals of cloud computing concepts, networking, and security principles. Students learn to evaluate, select, and implement different cloud options within an organization.

**CYBR 240 Security +**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** CISM 217

Provides students with a comprehensive overview of network security. The course covers the general security concepts; communication security, information security, cryptography basics, and operational/organizational security are explored in how it relates to further avenues of specialization.

**CYBR 241 Computer Forensics**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** CSCI 101

Fundamentals of computer forensics and cybercrime scene analysis including laws, regulations, and international standards; formal methodology for conducting security incident investigations; categories of electronic evidence. The course includes projects involving digital forensic tools.

**CYBR 265 Ethical Hacking**  
**4 Lecture Hours, 4 Credits**  
**Prerequisites:** CYBR 240

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

## Dental Assisting

**DENT 101 Dental Science I**  
**1 Lecture Hours, 1 Credits**  
**Prerequisites:** Admittance to the dental assisting program  
**Corequisites:** ENGL 101, SPEH 101

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

**DENT 102 Dental Science II**  
**2 Lecture Hours, 2 Credits**  
**Prerequisites:** SPEH 101, DENT 101, ENGL 101  
**Corequisites:** DENT 105, DENT 107, DENT 110

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

**DENT 105 Chairside Assisting & Expanded Functions I**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites:** SPEH 101, DENT 101, ENGL 101  
**Corequisites:** DENT 102, DENT 107, DENT 110

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

**DENT 107 Dental Infection Control & Biomedical Science**  
**2 Lecture Hours, 3 Lab Hours, 3 Credits**  
**Prerequisites:** SPEH 101, DENT 101, ENGL 101  
**Corequisites:** DENT 102, DENT 110, DENT 105

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

**DENT 110 Dental Radiology**  
**2 Lecture Hours, 6 Lab Hours, 4 Credits**  
**Prerequisites:** SPEH 101, DENT 101, ENGL 101  
**Corequisites:** DENT 102, DENT 105, DENT 107

This course is pending approval by the New Jersey Radiologic Technology Board of Examiners. The purpose of this course is to introduce the dental assisting student, through lecture and lab, to the basic radiologic principles of intraoral and extraoral imaging for dentoalveolar structures. The radiographic examination plays an integral role in the diagnostic process in dentistry in conjunction with the clinical examination. Dental assistants must be proficient with intraoral and extraoral techniques to fulfill their roles as licensed dental radiologic technologists

**DENT 120 Dental Patient & Practice Management**  
**2 Lecture Hours, 2 Credits**  
**Prerequisites:** SPEH 101, ENGL 101, DENT 101, DENT 102, DENT 105, DENT 107, DENT 110  
**Corequisites:** DENT 205, DENT 125, DENT 210

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

**DENT 125 Dental Materials****2 Lecture Hours, 3 Lab Hours, 3 Credits****Prerequisites:** SPEH 101, ENGL 101, DENT 101, DENT 102, DENT 105, DENT 107, DENT 110**Corequisites:** DENT 205, DENT 120, DENT 210

This course will introduce and reinforce theory, techniques, and application in the handling of dental materials through lectures and labs. Information and proper manipulation of dental materials will be taught to a proficiency level and will be explored further in clinical settings. Expanded functions as listed in the scope of practice for New Jersey Dental Assistants are included whenever applicable to reinforce the importance of understanding the utilization of dental materials.

**DENT 205 Chairside Assisting & Expanded Functions II****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites:** SPEH 101, ENGL 101, DENT 101, DENT 102, DENT 101, DENT 105, DENT 107, DENT 110**Corequisites:** DENT 120, DENT 125, DENT 210

This course is designed to introduce the student to each of the recognized dental specialties. Through lecture and laboratory sessions, the student will learn dental procedures and the role of the dental auxiliary in the following areas: chairside assisting, dental public health, preventative dentistry, endodontics, oral and maxillofacial surgery, orthodontics and dentofacial orthopedics, pediatric dentistry, periodontics, prosthodontics, dental anesthesiology, oral and maxillofacial pathology, and oral and maxillofacial radiology, and dental related environmental hazards. Learned skills will be utilized in clinical settings and volunteer activities.

**DENT 210 Dental Externship****315 Clinical Hours, 7 Credits****Prerequisites:** SPEH 101, ENGL 101, DENT 101, DENT 102, DENT 105, DENT 107, DENT 110**Corequisites:** DENT 205, DENT 125, DENT 120

The focus of this course is to provide an opportunity to integrate lecture and pre-clinical laboratory skills into the private practice setting. The students will actively participate in all aspects of dental assisting in assigned private dental offices. Students will obtain experience in expanded functions as outlined by the New Jersey State Dental Auxiliary Practice Act and are required to make radiographic exposures as outlined by the Department of Environmental Protection and Energy, Bureau of X-Ray Compliance.

**DMSI 107 Ultrasound Physics****3 Lecture Hours, 3 Credits****Prerequisites:** DMSI 101, DMSI 104, and PHYS 103

This course challenges students with the fundamental physical principles of soundwaves and sonographic instrumentation requirements needed to successfully sit for the SPI board examination. Students will be able to describe sound waves using acoustic parameters and identify the relationship that each parameter has to one another. Students will learn to manipulate ultrasound equipment to provide quality assurance and minimize potential for bioeffects. Topics of ultrasound hardware/software, hemodynamics, doppler, optimizing image resolution, and the interaction of sound with various media are covered in this course.

**DMSI 110 Abdominal Sonography I****2 Lecture Hours, 2 Credits****Prerequisites:** DMSI 104

This course covers anatomy and physiology as it relates to the field of sonography. Normal anatomy and anatomical variants are discussed focusing primarily on great vessels, liver, biliary system, pancreas, urinary system, and spleen. Students will learn to correlate patient data as it pertains to each organ, including lab values, patient history, prior imaging, and normal anatomical landmarks.

**DMSI 112 Scan Lab I****1 Lab Hours, 1 Credits****Corequisites:** DMSI 110 and DMSI 215**Course Fee:** G

Students get hands-on ultrasound scanning experience in an on-campus scan lab. This course focuses on how to operate ultrasound machinery, utilize proper ergonomics, and optimize images.

**DMSI 118 Introduction to Clinical Practicum****90 Clinical Hours, 2 Credits****Prerequisite:** DMSI 112**Corequisite:** DMSI 122**Program Fee:** \$2,000

This course will expose students to patient care in a clinical setting. Students are assigned to clinical sites where they receive hands-on training in a healthcare facility under the guidance of the healthcare staff.

**DMSI 120 Abdominal Sonography II****3 Lecture Hours, 3 Credits****Prerequisites:** DMSI 110**Course Fee:** J

This course focuses on various pathologies of the liver, biliary system, pancreas, urinary system, vascular system, and spleen. Students are given examples of how these pathologies appear sonographically, how they correlate to other patient findings, and how to modify scan protocols based on sonographic findings. Normal anatomy/physiology and pathology of small parts scanning is included in this course as well.

**DMSI 122 Scan Lab II****1 Lab Hour, 1 Credit****Prerequisite:** DMSI 112**Corequisite:** DMSI 118**Course Fee:** G

Expanding on the skills and knowledge acquired in DMSI 112 (scan lab I), students will continue to practice hands-on ultrasound scans with a stronger focus on examination protocols.

## Diagnostic Medical Sonography

**DMSI 101 Introduction to Medical Imaging****1 Lecture Hours, 1 Credits****Prerequisites:** Admission to the DMS program**Program Fee:** \$2,000

This introductory course provides foundational instruction for students entering the field of diagnostic medical sonography. An overview of the DMS profession and scope of practice will be provided. This course will familiarize students with different imaging modalities. Types of exams performed, benefits/contraindications, and typical appearances of biological tissues will be discussed for each imaging modality. Students will learn basic sonographic, medical, and directional terminology, as well as, scan planes, and image orientation.

**DMSI 104 Cross Section Anatomy****2 Lecture Hours, 2 Credits****Prerequisites:** Admission to the DMS Program**Corequisite:** BIOL 105

This course introduces students to basic human anatomy and how different anatomical structures are situated into relation to one another. Utilizing 2-dimensional images of 3-dimensional concepts, students will learn to identify and describe the orientation of human organs in a variety of scan planes. Emphasis will be placed on body cavities, abdominal organs, and great vessels.

**DMSI 126 Introduction to Clinical Practicum and Scan Lab**  
**90 Clinical Hours, 1 Lab Hours, 2 Credits**  
**Prerequisites:** HPRF 104, C or higher in BIOL 105, BIOL 106  
**Pre or coreq:** HPRF 102, DMSI 113  
**Program Fee:** \$2,000

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.

**DMSI 130 Clinical Practicum I**  
**360 Clinical Hours, 8 Credits**  
**Prerequisite:** DMSI 118  
**Corequisite:** DMSI 224  
**Program Fee:** \$2,000

In an off-campus healthcare setting, students will practice hands-on ultrasound scanning under the supervision of the healthcare staff. Students are assessed and required to achieve scan competency in multiple exam types during this clinical rotation. Clinical experiences occur in a variety of health care settings.

**DMSI 201 Sonographic Interpretations and Techniques I**  
**2 Lecture Hours, 2 Credits**  
**Prerequisites:** DMSI 105  
**Program Fee:** \$2,000

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.

**DMSI 202 Sonographic Interpretations and Techniques II**  
**2 Lecture Hours, 2 Credits**  
**Prerequisites:** DMSI 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.

**DMSI 203 Clinical Practicum I**  
**360 Clinical Hours, 1 Lab Hours, 3 Credits**  
**Prerequisites:** C or higher in DMSI 105 and DMSI 126  
**Pre- or Co-** DMSI 106, DMSI 201, DMSI 209  
**Program Fee:** \$2,000

Students are introduced to their clinical sites and receive hands-on instruction in diagnostic medical sonography techniques.

**DMSI 204 Clinical Practicum II**  
**360 Clinical Hours, 1 Lab Hours, 3 Credits**  
**Prerequisites:** DMSI 203  
**Program Fee:** \$2,000

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

**DMSI 205 Clinical Practicum III**  
**120 Clinical Hours, 1 Credits**  
**Prerequisites:** DMSI 204

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

**DMSI 208 Small Parts Scanning**  
**1 Lecture Hours, 1 Credits**  
**Prerequisites:** DMSI 201

Anatomy, physiology, pathology, and basic scanning techniques as utilized in ultrasound evaluation of various organs and glands are covered in this presentation.

**DMSI 209 OB/GYN Sonography I**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** DMSI 118, DMSI 122, DMSI 218

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.

**DMSI 210 OB/GYN Sonography II**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** DMSI 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.

**DMSI 215 Sonographic Interpretations I**  
**2 Lecture Hours, 2 Credits**  
**Prerequisite:** DMSI 104  
**Corequisite:** DMSI 110 , DMSI 107

This course provides students with an in-depth exploration of clinical case studies complemented by ultrasound imaging. Emphasis is placed on the accurate description of findings utilizing sonographic terminology, the application of cross-sectional anatomy principles to effectively interpret ultrasound images, and the differentiation of normal and abnormal anatomical structures.

**DMSI 218 Vascular Ultrasound**  
**1 Lecture Hours, 1 Credits**  
**Prerequisites:** DMSI 107 & DMSI 112

This course prepares students to enter the field of sonography with an entry-level understanding of vascular technology and applications. This course will reinforce the applications of hemodynamics, color doppler flow, and spectral doppler analysis. Students will be given a more in-depth view of vascular anatomy and recognize normal versus common pathological conditions of the vascular system.

**DMSI 221 Seminars in Diagnostic Medical Sonography**  
**1 Lecture Hours, 1 Credits**  
**Prerequisites:** C or higher in DMSI 226, 202, 204, 222, 210  
**Corequisites:** DMSI 208, DMSI 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.

**DMSI 222 Vascular Ultrasound**  
**2 Lecture Hours, 2 Lab Hours, 3 Credits**  
**Prerequisites:** C or higher in DMSI 106, DMSI 201, DMSI 203, DMSI 209  
**Pre or Corequisites:** DMSI 202, DMSI 204, DMSI 210, DMSI 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.

**DMSI 224 Scan Lab III****1 Lab Hours, 1 Credits****Prerequisite: DMSI 122****Corequisite: DMSI 130****Course Fee: G**

This is a hands-on scan lab that will help students refine scanning skills and gain additional skills in color and spectral doppler optimization

**DMSI 226 Ultrasound Physics II****1 Lecture Hours, 1 Credits****Prerequisites: C or higher in DMSI 106, DMSI 201, DMSI 203, DMSI 209****Pre or Corequisites: DMSI 202, DMSI 204, DMSI 210, DMSI 222**

This course covers the Doppler effect and principles as well as artifacts, quality assurance and bio effects.

**DMSI 230 Clinical Practicum II****90 Clinical Hours, 2 Credits****Prerequisite: DMSI 130**

In an off-campus healthcare setting, students will practice hands-on ultrasound scanning under the supervision of the healthcare staff. Students are assessed and required to achieve scan competency in multiple exam types during this clinical rotation. This course has a focus on obstetrics and gynecological scanning. Clinical experiences occur in a variety of health care settings.

**DMSI 235 Sonographic Interpretations II****2 Lecture Hours, 2 Credits****Prerequisite: DMSI 215****Corequisite: DMSI 210**

This course provides students with hands-on experience in interpreting ultrasound examinations and effectively presenting their findings in a classroom setting. Throughout the semester, students will engage in practical exercises to enhance their diagnostic skills and presentation techniques. The course culminates in a comprehensive presentation, where students will showcase their research on a selected topic to their peers.

**DMSI 240 Clinical Practicum III****360 Clinical Hours, 8 Credits****Prerequisite: DMSI 230****Corequisite: DMSI 250****Program Fee: \$2,000**

In an off-campus healthcare setting, students will practice hands-on ultrasound scanning under the supervision of the healthcare staff. Students are assessed and required to achieve scan competency in multiple exam types during this clinical rotation. This course has a focus on obstetrics and gynecological scanning. Clinical experiences occur in a variety of health care settings.

**DMSI 250 Scan Lab IV****1 Lab Hours, 1 Credits****Prerequisite: DMSI 224****Corequisite: DMSI 240**

Students will practice obtaining pertinent patient histories, executing proper scan protocols, and image optimization through scanning human participants, ultrasound phantoms, and an OB/GYN ultrasound simulator.

**DMSI 255 Seminars in Ultrasound****1 Lecture Hours, 1 Credits****Prerequisites: DMSI 107, DMSI 120, & DMSI 218****Corequisite: DMSI 235, DMSI 210****Course Fee: J**

This course prepares students to enter the workforce as an entry-level sonographer. The focus of this course is to prepare students to take the registry board examinations. Students will be given mock board examination questions in SPI, Abdomen, and OB/GYN specialties. This course also covers topics including preparing a resume, searching for jobs, and preparing for job interviews in the field of sonography.

## Economics

**ECON 100 Introduction to Economics****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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. ECON 100 does not satisfy requirements for a business major. General Education Category: Social Sciences – Society and Human Behavior (SHB)

**ECON 101 Principles of Economics (Macro)****3 Lecture Hours, 3 Credits****Prerequisites: MATH 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. General Education Category: Social Sciences – Society and Human Behavior (SHB)

**ECON 102 Principles of Economics (Micro)****3 Lecture Hours, 3 Credits****Prerequisites: MATH 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. General Education Category: Social Sciences – Society and Human Behavior (SHB)

## Education

**EDUC 101 History of American Education****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**EDUC 102 Principles of Early Childhood Education**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

**Corequisite:** PYSC 115

Acquaints students entering the field of Early Childhood Education with the role and dispositions of the teacher, the contributing factors in quality care and developmentally appropriate practices, the role and stages of play, and the historical foundations and principles in educating young children.

**EDUC 103 Infant/Toddler Curriculum & Development**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 103

**Corequisite:** EDUC 102

Study of the growth and development of children from birth through three, emphasizing the importance of attachment, guidance, temperament, and personality, and providing a nurturing and appropriate environment.

**EDUC 105 Educational Technology**

**1 Lecture Hours, 1 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

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.

**EDUC 109 Inclusion in Early Childhood Education**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100, PSYC 103 and EDUC 102

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

**EDUC 113 Infant/Toddler Mental Health**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 103 and EDUC 102

This course deals with the exploration of the essential elements involved in setting the foundation for the mental health and social-emotional development of infants and toddlers. Topics are supported with research-based curriculum on brain development, attachment theories, temperament, and curriculum. This course examines the importance of identifying and meeting social/emotional needs and how these needs relate to the caregiver's interactive process with infants, toddlers, and their families. A specific focus will be applied to developmentally appropriate practices and techniques in the childcare setting that influence the beginning of identity formation and a creative life experience.

**EDUC 201 Math, Science, & Technology in ECE**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 103 and EDUC 102

An examination of basic math, science, engineering, and technology concepts with emphasis on problem-solving and logical thinking integrating units of study through the Project Approach

**EDUC 203 Language Development & Emergent Literacy**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 103 and EDUC 102

A study of language development and methods for teaching listening, speaking, emergent reading and writing skills; phonemic awareness and balanced literacy programs for preschoolers; activities that enhance language and literacy development; and strategies that assist children in acquiring a second language.

**EDUC 204 Creative Learning Experiences**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 103 and EDUC 102

A study of various art and music media leading to the preparation of integrated lessons and curricula that foster creativity, active learning, and problem solving through the arts.

**EDUC 205 Pre-School Classroom Management**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 103 and EDUC 102

An examination of a variety of positive guidance techniques designed to enhance the preschool teacher's ability to effectively manage behavior and teach social skills and conflict resolution.

**EDUC 207 Foundational Practices: Supporting Children Using Positive Behavior Support Systems**

**3 Lecture Hours, 3 Credits**

**Prerequisite:** PSYC 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.

**EDUC 209 Child Health, Safety & Nutrition**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 103 and EDUC 102

An exploration of ways to provide a safe, appropriate environment for children, develop awareness of children's health and nutritional needs, and collaborate with parents to expand health, safety and nutritional information and practices.

**EDUC 212 Books and Storytelling in Early Childhood Education**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 103; EDUC 203 and EDUC 102

A survey of children's literature books to prepare students to select appropriate books for use in early childhood classrooms. Includes strategies for designing balanced and integrated lessons to teach content areas.

**EDUC 218 Introduction to Trauma Informed Practices to Promote Social Emotional Development in Educational Settings**

**3 Lecture Hours, 3 Credits**

**Prerequisite:** PSYC 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.

**EDUC 219 Infant/Toddler Field Experience**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 103; EDUC 203 and EDUC 102

This course is part of the Infant/Toddler credential and is intended for use by professionals and paraprofessionals working in the field of infant/toddler care in all settings, including center-based care, family childcare programs, and in community-based programs that support infant, toddlers, and their families. Through a combination of classroom instruction (2 credit hours) and field experience (1 credit hour) students will have the opportunity to apply new skills and strategies in the Infant/Toddler classroom. A college instructor will provide on-site supervision throughout the field experience that will coordinate with supplemental instruction in the college classroom.

**EDUC 220 Foundations of Inclusive Education****3 Lecture Hours, 3 Credits****Corequisite or Prerequisites: EDUC 238**

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.

**EDUC 226 Principles and Pedagogies in the Inclusive Classroom****2 Lecture Hours, 2 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**EDUC 227 Seminar: Principles and Pedagogies in the Inclusive Classroom****1 Lecture Hours, 1 Credits****Prerequisites: ENGL 060 or ENGL 100 and EDUC 215**

This seminar course serves as the vehicle for domain-specific application of the principles and pedagogies that promote the use of positive management techniques supportive of all learners in an inclusive setting. Through case study scenarios, videos, virtual and/or live field experiences in Early Childhood, Elementary, Art, Music, and Physical Education instructional settings, students will have multiple, varied opportunities to reflect on and apply new learning to enhance their understanding of proactive behavior strategies and supports.

**EDUC 238 Disability as Diversity****3 Lecture Hours, 3 Credits****Prerequisites: PSYC 102 or PSYC 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

**EDUC 241 Legal and Ethical Issues for Educational Interpreting****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

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.

**EDUC 244 Child Development for Educational Interpreters****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

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.

**EDUC 247 Curriculum Development and Methods of Instruction for Educational Interpreters****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

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).

**EDUC 249 Deaf-Blind Interpreting Strategies for Educational Interpreters****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

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.

**EDUC 252 Language Development for the Educational Interpreter****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

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.

**EDUC 290 The Early Childhood Professional****3 Lecture Hours, 3 Credits****Prerequisites: PSYC 103; EDUC 201, EDUC 203, EDUC 205, EDUC 209****Corequisite: EDUC 212 or any EDUC Elective**

This course focuses on the early childhood profession including awareness of value issues and ethical issues in working with children and their families, legal issues, staff relations and the importance of becoming an advocate for upgrading the profession and improving the services for children.

## Emergency Management

**EMGM 101 Introduction to Emergency Management and Homeland Security****3 Lecture Hours, 3 Credits****Prerequisites: None**

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.

**EMGM 105 Planning for Emergencies****3 Lecture Hours, 3 Credits****Prerequisites: None**

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.

**EMGM 201 Incident Command: Theory and Practice****3 Lecture Hours, 3 Credits****Prerequisites: EMGM 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.

**EMGM 205 Global Catastrophes****3 Lecture Hours, 3 Credits****Prerequisites: EMGM 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

**ENGR 108 Digital Electronics for Engineers****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: MATH 120 OR MATH 121**

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.

**ENGR 110 Graphics****2 Lecture Hours, 3 Lab Hours, 3 Credits****Prerequisites: ENGL 060**

Provides the fundamental principles of engineering drawing, fundamental principles of descriptive geometry, graphical mathematics, and CAD.

**ENGR 200 MATLAB Programming****3 Lecture Hours, 3 Credits****Prerequisites: ENGR 102****Course Fee: 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. All lecture topics are supported by a lab component.

**ENGR 201 Second Year Engineering Clinic I****3 Lab Hours, 3 Credits****Prerequisites: ENGR 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. This is an engineering laboratory experimental design course.

**ENGR 202 Second Year Engineering Clinic II****3 Lab Hours, 3 Credits****Prerequisites: ENGR 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. This is an engineering laboratory experimental design course.

**ENGR 207 Engineering Materials****2 Lecture Hours, 3 Lab Hours, 3 Credits****Prerequisites: CHEM 101****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.

## Engineering

**ENGR 102 First Year Engineering Clinic I****1 Lecture Hour, 2 Lab Hours, 2 Credits****Prerequisites: ENGL 060, MATH 110****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. Lecture topics supported by a lab component.

**ENGR 103 First Year Engineering Clinic II****1 Lecture Hour, 2 Lab Hours, 2 Credits****Prerequisites: MATH 108 & ENGR 102 (grade of C)****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 supported by a lab component.

**ENGR 107 Electronics for Engineers****3 Lecture Hours, 3 Credits****Prerequisites: MATH 118 or MATH 120 or MATH 121**

The basic concepts in electronics will be covered to include passive and active electronic components, diodes and transistors, power supply analysis and design, transistor amplifier analysis and design, transistor oscillators analysis and design, operational amplifier analysis and design, and basic integrated circuits. Completion of a term project will be required.

**ENGR 211 Engineering Statics****3 Lecture Hours, 3 Credits****Pre or Corequisites: PHYS 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.

**ENGR 212 Mechanics of Materials****3 Lecture Hours, 3 Credits****Prerequisites: ENGR 211**

This course continues ENGR 211 and includes stress, strain, axial loading, torsion, bending and deflection of beams. Analysis of both determinate and indeterminate structural systems is presented.

**ENGR 213 Engineering Dynamics****3 Lecture Hours, 3 Credits****Prerequisites: ENGR 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.

**ENGR 218 Principles of Electrical Circuit Analysis (PECA)****3 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: MATH 130, PHYS 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.

**ENGL 100 Readings in Literature****4 Lecture, 4 Credits****Prerequisites: ENGL 060 or Placement on Accuplacer**

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.

**ENGL 101 English Composition I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100 or Accuplacer Placement;****Corequisite: ENGL 100**

This course focuses on the study of rhetoric and provides students with extensive guided experience in writing essays to develop and strengthen skills through frequent and varied writing assignments. The course emphasizes critical reading and thinking skills, writing process, organization of material, syntax, rhetorical devices, and the concepts of audience, purpose, and form. Students develop information literacy through responsible research skills and the basic techniques of MLA documentation. Please note that to register for ENGL 102 – English Composition II, you need to receive a C grade or better in ENGL 101 – English Composition I. General Education Category: Communications – Written and Oral Communication (WOC)

**ENGL 101E Enhanced English Composition I****4 Lecture, 4 Credits****Prerequisites: ENGL 060 or ENGL 100 or Accuplacer Placement****Corequisite: ENGL 100**

This course focuses on the study of rhetoric and provides students with extensive guided experience in writing essays to develop and enhance reading and writing skills through frequent and varied writing assignments. The course emphasizes critical reading and thinking, the writing process, organization of material, syntax, rhetorical devices, and the concepts of audience, purpose, and form. Students develop information literacy through responsible research skills and the basic techniques of MLA documentation. Please note that to register for ENGL 102 - English Composition II, you need to receive a C grade or better in ENGL 101E - Enhanced English Composition I. General Education Category: Communications – Written and Oral Communication (WOC)

**ENGL 102 English Composition II****3 Lecture Hours, 3 Credits****Prerequisites: C or better in ENGL 101 or ENGL 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. General Education Category: Communications – Written and Oral Communication (WOC)

## English

**ENGL 050 Introduction to College Reading and English I****6 Lecture Hours, 6 Credits****Prerequisites: Placement through Accuplacer or Multiple Measures**

Introduction to College Reading and English I is an intensive developmental course designed to provide students with the foundations needed for academic reading and writing. In this integrated reading and writing course, students develop a range of strategies for reading different kinds of texts and will practice the stages of the writing process with special focus given to sentence and paragraph organization and structure.

**ENGL 060 Introduction to College Reading and English II****4 Lecture Hours, 4 Credits****Prerequisites: ENGL 050 or Placement on Accuplacer or Multiple Measures**

Introduction to College Reading and English II is an intensive developmental course designed to provide students with the foundations needed to achieve College and Career Readiness (CCR) in literacy, which includes both reading and writing. In this integrated course, students will develop and apply strategies for comprehension through reading literature and informational complex text. This course will also focus on textual support and evidence-based writing with special focus given to paragraph and essay development using the writing process.

**ENGL 103 Survey of World Literature****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E and ENGL 100**

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. General Education Category: Humanities – Humanistic Perspective (HUP)  
General Education Category: Global and Cultural Awareness (GCA)

**ENGL 107 Principles of English Grammar****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**ENGL 109 Survey of Classical Greek and Roman Literature****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 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. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 201 British Literature I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

This course presents the selected work of major British writers representing major literary movements from the Anglo-Saxon period to the 18th Century. The focus of this course is on the major authors of each period, the historical contexts that shaped their works, and the specific innovations and/or artistic achievements they illustrate. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 202 British Literature II****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

This course presents the selected work of major British writers representing major literary movements from the 18th Century to the 20th and 21st Centuries. The focus of this course is on the major authors of each period, the historical contexts that shaped their works, and the specific innovations and/or artistic achievements they illustrate. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 203 Literature by Women****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 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. General Education Category: Humanities – Humanistic Perspective (HUP)  
General Education Category: Global and Cultural Awareness (GCA)

**ENGL 205 Masterpieces of Western Literature I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 102**

Offers selected readings in Western Literature from ancient times to the Renaissance. This course focuses on relationships between literary works and their cultural backgrounds and examines relevance of each work to contemporary life. Students will apply critical thinking and writing skills developed in ENGL 102. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 206 Masterpieces of Western Literature II****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 102**

Offers selected readings in western literature from the Renaissance to the late 20th century. This course focuses on relationships between literary works and their cultural and historical backgrounds and examines relevance of each work to contemporary life. Students will apply critical thinking and writing skills developed in ENGL 102. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 208 Images of Women in Literature****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 102**

A course in which selected fiction, drama, poetry, and prose are read and discussed and the images of women analyzed in relation to the cultural and historical background of the period in which they appear. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

**ENGL 209 American Literature I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 102**

A survey of the development of American Literature from the Colonial Period to the Civil War. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 210 American Literature II****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 102**

A survey of American Literature from the Civil War to the present. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 213 Non-Western Literature****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

Non-Western Literature is designed to provide some awareness and sensibility towards the literature from countries other than the United States and those of Europe. Focusing on ancient and modern works from Asian, African and Latin-American countries, the course emphasizes the experiences, challenges, and cultures specific to these countries and their commonalities and differences with those of the Western World. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

**ENGL 215 Immigrant Voices in American Literature****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

Immigrant Voices in American Literature focuses on writings by and about immigrants to the United States starting with the first settlers and closing with 21st century newcomers. Through the study of fiction, poetry, drama, and non-fiction, students will examine the American immigrant experience as reflected in these authors' writings and their influence in the larger American literary canon. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

**ENGL 219 Modern American Literature**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 101E**

A survey course of American literature from 1945 until the end of the century - the post-World War II period to the beginning of the Millennium. This course will examine the writings of the major literary figures whose writing reflected the times and influenced the minds of the American public in the areas of short story, poetry, and drama. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 221 Short Story**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 102**

This course offers a historical and/or thematic approach to the study of selected short stories, with emphasis on form, theory, and interpretation. Short stories are studied as a unique genre; students engage in advanced critical thinking and practice advanced writing skills initiated in ENGL 102. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 222 Drama**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 102**

Offers reading and discussion of plays selected for a historical survey of drama or for an in-depth examination of a particular period, movement, or playwright. Students are able to practice advanced writing and critical thinking skills initiated in ENGL 102. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 223 Poetry**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 102**

Offers a historical or thematic approach to the study of selected poems with emphasis on forms, theories, and interpretations. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 224 The Romantic Era in American Literature**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 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. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 225 Twentieth Century American Authors**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 101E**

Literary works related to basic problems of the twentieth century (political, social, religious, philosophical, or personal) are studied. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 226 Introduction to Latino Literature**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 102**

Designed to introduce students to a particular and important genre. The course intends to have the student survey and gain an appreciation of Latino novels, plays, poetry, and short stories by reading works that are timeless and important. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

**ENGL 230 Major American Writers**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 101E**

This course includes selected readings from the literary works of major American writers. Several critical essays are required. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 235 American Film Classics**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 101E**

This survey of the American film industry emphasizes its development as an art form and a social institution. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 236 Contemporary American Film**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 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. General Education Category: Humanities – Humanistic Perspective (HUP)

**ENGL 237 American Horror Literature and Film**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 101E**

New course description: 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.

**ENGL 238 The Films of Alfred Hitchcock**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 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.

**ENGL 240 Introduction to Children's Literature**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 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. General Education Category: Global and Cultural Awareness (GCA)

**ENGL 241 Survey of African American Literature**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 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. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

**ENGL 248 LGBTQ+ Authors and Filmmakers****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

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. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

**ENGL 250 Critical Methods I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

This course introduces students to foundational skills in close-reading, textual analysis, and literary terminology by focusing on three major literary genres: poetry, short fiction, and drama. Critical Methods I will provide students with essential skills to help them proceed to higher-level English courses, and for that reason, it is a prerequisite for Critical Methods II.

**ENGL 251 Critical Methods II****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 250**

This course builds upon the skills developed in Critical Methods I and introduces students to major branches of literary theory. Students will read, discuss, and analyze one central primary source through a variety of theoretical lenses, demonstrating an understanding of their own and others' theoretical frameworks.

**ESLL 025 Reading & Writing II****3 Lecture Hours, 3 Credits****Prerequisites: ESLL 015 Reading & Writing I****(or appropriate score on placement assessment)**

This course provides instruction in low-intermediate reading and writing skills. Students practice scanning written material for important information, skimming for main ideas, predicting reading content, understanding conclusions, making inferences, distinguishing facts from opinions, and reviewing vocabulary meaning. Students will also practice writing topic sentences of increased complexity, arranging written ideas in order of importance, editing and proofreading text for clarity, writing concluding sentences, adding details to a paragraph, and making comparisons.

**ESLL 030 Listening & Speaking III****3 Lecture Hours, 3 Credits****Prerequisites: ESLL 020 Listening & Speaking II****(or appropriate score on placement assessment)**

This High-Intermediate level course builds upon the listening and speaking skills presented in ESLL 020. Students practice accurately pronouncing English words, using various spoken expressions and phrases, discussing main ideas in conversations, using "tag" questions to ask for information, and inferring meaning from spoken context clues.

**ESLL 035 Reading & Writing III****3 Lecture Hours, 3 Credits****Prerequisites: ESLL 025 Reading & Writing II****(or appropriate score on placement assessment)**

This high-intermediate level course provides continued instruction in reading and writing skills. It focuses on identifying main ideas; skimming and scanning written materials for information; defining vocabulary through the identification of word parts, such as synonyms, antonyms, and context clues; identifying supporting details; predicting events in a reading passage; identifying relationships between and within sentences and paragraphs; and understanding figurative language. The course also emphasizes developing proficiency with the variety of styles found in academic writing. Students will practice creating effective topic sentences; editing paragraphs and essays for coherence, unity, and organization; writing about cause/effect and comparison/contrast relationships; using quotations, paraphrasing, and sensory details to support opinions; and editing for coherence.

**ESLL 040 Listening & Speaking IV****3 Lecture Hours, 3 Credits****Prerequisites: ESLL 030 Listening & Speaking III****(or appropriate score on placement assessment)**

This advanced level course is the culmination of the ESL listening and speaking curriculum. Successful completion of this course enables students to better comprehend college-level listening and speaking tasks. Students practice participating in discussions and debates, making speeches, using idiomatic expressions, and utilizing voice intonation and inflection.

**ESLL 045 Reading & Writing IV****3 Lecture Hours, 3 Credits****Prerequisites: ESLL 035 Reading & Writing III****(or appropriate score on placement assessment)**

This advanced level course is the culmination of the ESL reading and writing curriculum. Successful completion of this course enables students to better complete college-level reading and writing tasks. Students practice composing paragraphs and essays, identifying grammatical structures in sentences, analyzing effective punctuation, and recalling appropriate vocabulary

## English as a Second Language

**ESLL 010 Listening & Speaking I****3 Lecture Hours, 3 Credits****Prerequisites: Appropriate score on placement assessment**

This Introductory level course provides instruction in basic academic listening and speaking skills. Students practice listening for main ideas and specific information, identifying stressed words and reductions, getting meaning from context, and speaking in many simple role-playing situations. (Students must possess a basic understanding of English to enter this course).

**ESLL 015 Reading & Writing I****3 Lecture Hours, 3 Credits****Prerequisites: Appropriate score on placement assessment**

This course provides instruction in basic academic reading and writing skills. Students practice identifying simple main ideas, classifying and organizing primary information, preparing short summaries, and using context clues to identify vocabulary meaning. Students will also practice writing simple topic sentences, placing written information in a logical order, using brainstorming and free-writing techniques to generate ideas, and creating short written outlines. (Students must possess a basic understanding of English to enter this course).

**ESLL 020 Listening & Speaking II****3 Lecture Hours, 3 Credits****Prerequisites: ESLL 010 Listening & Speaking I****(or appropriate score on placement assessment)**

This Low-Intermediate to Intermediate-level course builds upon the listening and speaking skills introduced in ESLL 010. Students practice listening to academic lectures, taking effective notes, using intonation to understand meaning, distinguishing between vocabulary words with similar pronunciation, and communicating through debate and discussion.

## Environmental Science

**ENVS 101 Environmental Science**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: ENGL 060, MATH 050 or MATH 051**  
**Course Fees: C, H**

An introductory course in the fundamental concepts of environmental science. Topics discussed include biogeochemical cycles, energy cycles and the effects of chemical and radioactive substances on the air, water, and land masses of the earth. Laboratory activities will focus on quantification and assessment of environmental parameters in local aquatic and terrestrial ecosystems. General Education Category: Science – Scientific Knowledge and Reasoning (SKR)

**ENVS 116 Environmental Science: Ecosystems and Man**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: ENGL 060, HS Biology**  
**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. General Education Category: Science – Scientific Knowledge and Reasoning (SKR)

**ENVS 117 Environmental Science: Pollution and Solution**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: ENGL 060, HS Biology**  
**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. General Education Category: Science – Scientific Knowledge and Reasoning (SKR)

**ENVS 201 Research Methods and Data Analysis**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: MATH 103 and BIOL 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 nonparametric 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. Laboratory exercises will support lecture topics.

## Engineering Technology

**ETEC 102 Fundamentals of Engineering Technology Design**  
**2 Lecture Hours, 2 Lab Hours, 3 Credits**  
**Prerequisites: ENGL 060 and MATH 050**  
**Course Fee: 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. Laboratory work supplements the lectures.

**ETEC 103 CADD I: AutoCAD**  
**1 Lecture Hours, 5 Lab Hours, 3 Credits**  
**Prerequisites: ENGL 060**  
**Course Fees: B, I**

This course introduces students to computer-aided drafting and design (CADD) techniques with AutoCAD software. Students learn to create, store and retrieve drawings on AutoCAD and gain a foundation in graphics, computer-aided design and manufacturing. Industry standards and procedures are used to develop the skills needed by entry-level CADD operators and students will be prepared for advanced engineering design and CNC programming.

**ETEC 105 Blueprint Reading/Sketching**  
**2 Lecture Hours, 2 Credits**  
**Prerequisites: ENGL 060 and MATH 050**  
**Course Fee: 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**  
**Prerequisites: ENGL 060 and MATH 050**  
**Course Fee: 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 a meter to troubleshoot an electrical circuit.

**ETEC 111 Electronics**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites: ETEC 107 or PHYS 124**

A study of semi-conductor devices and applications. Diodes, transistors, mosfets, FET Transistors and UJT Transistors, SCR's, and Tri AC's are analyzed. Laboratory work supplements the lectures.

**ETEC 113 CADD II Advanced AutoCAD**  
**1 Lecture Hours, 5 Lab Hours, 3 Credits**  
**Prerequisites: ETEC 103**  
**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. Students learn assembly of drawings of machines, machine components, elementary gear and cam design. Extensive hands-on projects using AutoCAD are required.

**ETEC 116 Workplace Ethics**  
**1 Lecture Hours, 1 Credits**  
**Prerequisites: None**

Students study human relations and professional development that exists in today's rapidly changing world so that they become better prepared for living and working in a complex society. Topics include co-worker mindfulness, timeliness, human relations, job acquisition, job retention, job advancement and professional image skills.

**ETEC 118 Tools and Measurement****1 Lecture Hours, 1 Credits****Prerequisites: None**

Tools and Measurement introduces basic measurement, precision measurement tools, and dimensional gauging. Learners will cover concepts such as S.I. Measurement, U.S. Customary Measurements, Tape Measure and Measurement Conversion. Applications taught include using a dial caliper, digital caliper, English micrometer, and metric micrometer. Dimensional Gauging will include an introduction to gauging as well as indicator measurement and data collection. This course provides an overview of a broad range of basic concepts in measurement including how to use precision tools and learning about dimensional gauging concepts.

**ETEC 158 CNC Operator****3 Lecture hours, 3 Lab hours, 4 Credits****Prerequisite or Corequisite: ETEC 118**

This entry-level course introduces students to the core skills and knowledge required for CNC operator roles in a modern manufacturing environment. The course emphasizes hands-on lab experience with CNC milling machines, part setup, basic programming, blueprint reading, and workplace safety. Students will gain familiarity with machine control, tooling, coordinate systems, and quality control processes aligned with industry expectations and NIMS standards.

**ETEC 160 CNC Programming****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: ENGR 110 or ETEC 103**

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, 3 Lab Hours, 3 Credits****Prerequisites: ENGL 060 and MATH 050**

This course 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. Laboratory work supplements the lectures.

**ETEC 205 Digital Electronics****2 Lecture Hours, 3 Lab Hours, 3 Credits****Prerequisites: MATH 105**

Provides students with information and experience on integrated circuits which are used in analyzing and storing data. Laboratory work supplements the lectures.

**ETEC 211 Advanced Engineering Technology Design****1 Lecture Hour, 4 Lab Hours, 3 Credits****Prerequisite: ETEC 103 or ETEC 110 or ENGR 110**

This course introduces intermediate CAD drawing which will include working detail and assembly drawings of machines, machine components, elementary gear and cam design, as well as 3D solid models.

**ETEC 212 CADD III: 3D Modeling****1 Lecture Hours, 5 Lab Hours, 3 Credits****Prerequisites: ETEC 113 or CETE 216**

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

**ETEC 216 Architectural and Civil Planning****1 Lecture Hours, 5 Lab Hours, 3 Credits****Prerequisites: ETEC 113**

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.

**ETEC 218 Programmable Logic Controller****2 Lecture Hours, 3 Lab Hours, 3 Credits****Prerequisites: ETEC 111 or permission**

The Allen Bradley SLC 500 series PLC is used to provide students with an understanding of PLC programming. Laboratory work supplements the lectures.

**ETEC 221 Fundamentals of Manufacturing****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: ETEC 102 or ENGR 102 or ETEC 103**

A study of selected materials and related processes used in manufacturing including plastics and metals. Laboratory work supplements the lectures.

**ETEC 223 Statics for Technology****3 Lecture Hours, 3 Credits****Prerequisites: MATH 110 or MATH 118**

Provides an understanding of equilibrium of particles and rigid bodies subject to concentrated and distributed forces. Upon successful completion of this course, the students should be able to analyze problems involving the equilibrium of particles and rigid bodies, including simple machines, trusses, and frictional forces

**ETEC 224 Dynamics for Technology****3 Lecture Hours, 3 Credits****Prerequisites: ETEC 223**

Provides an understanding of the mathematics of the motion of particles and rigid bodies, and the relation of forces and motion of particles. Upon successful completion of this course, the students should be able to describe the motion of particles and rigid bodies as functions of time and position, develop their equations of motions due to applied forces, and determine post impact behavior.

**ETEC 227 Circuits II****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: ETEC 107**

This second course in Electrical Circuits expands on Circuit Theory introduced in ETEC107. 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 228     Engineering Technology Internship****3 Lecture Hours, 3 Credits****Prerequisite: ENGR 101**

An internship is an integral part of engineering education. It provides real world experience in the profession; Enables correlation of classroom learning with its application in industry; Broadens understanding of the types of employment available in the field; Helps students discover their individual interests; Builds resume credentials for the students; and develops relationships between Cumberland County College and local Industrial firms

**ETEC 233     AutoCAD Programming and Customization****2 Lecture hours, 2 Lab Hours, 3 Credits****Prerequisite: ETEC 113**

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.

**ETEC 240     Pneumatics and Hydraulic Automation****3 Lecture Hours, 2 Lab Hours, 4 Credits****Pre/Corequisite: ETEC 218**

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

**ETEC 241     Robotics and Motion Control****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisite: ETEC 211**

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

**ETEC 242     Advanced PLC****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisite: ETEC 218**

Use of programmable controllers and computers in factory automation. Topics include process control, supervisory software, PLC networking, PLC/CNC integration, device configuration, use of programming software and PLC language standards.

**ETEC 243     Drone Applications****2 Lecture Hours, 3 Lab Hours, 3 Credits****Prerequisite: ETEC 107**

A first course in unmanned aerial vehicles (UAVs), aka "drones", and the technologies involved in their operation. Coverage includes UAV components, command and control (C2) communication systems, basics of flight, regulatory agencies and regulations, safety and societal considerations. Laboratory activities provide opportunity for students to gain hands-on experience in working with UAVs

**ETEC 244     Instrumentation & Measurement****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisite: MATH.130 or ETEC 107**

This course provides students with necessary skills to conduct reliable measurements for engineering and technology practice using a variety of monitoring, engineering, and manufacturing instrumentation. Students will examine measurement errors, measurement uncertainty, and instrumentation limits on errors. Additionally, the course demonstrates the uses and testing methods of instrument transformers, operational amplifiers, rectifiers, filters, and oscillators. An instrumentation and measurement background provides the foundation needed to be effective in a wide range of application environments.

## Exercise Science

**EXSI 105     Healthcare Provider Emergency Response w/BLS Cert.****1 Lecture Hours, 1 Credits****Prerequisites: None****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.

**EXSI 116     Foundations of Human Performance and Movement****2 Lecture Hours, 2 Credits****Pre- or Corequisite: BIOL 105**

This course introduces students to the fundamental principles of human movement and exercise physiology. Students will explore basic anatomical structures, joint functions, and movement mechanics essential for understanding how the body performs and adapts to physical activity. Key physiological concepts, including energy systems and cardiovascular responses to exercise, will also be covered.

**EXSI 192     Contemporary Health I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100 and MATH 050**

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.

**EXSI 193     Contemporary Health II****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100 and MATH 050**

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.

**EXSI 200 Professional Practices in Health and Fitness****1 Lecture Hours, 1 Credits****Prerequisite: HPER 240**

This course provides an overview of the foundational legal, ethical, and business practices in the health and fitness industry. Topics include risk management, professional ethics, facility operations, and essential business skills such as marketing, budgeting, and client relations. Emphasis is placed on developing a practical understanding of client safety, confidentiality, and professional conduct. This course is ideal for those pursuing careers in fitness, wellness, and health promotion.

**EXSI 205 Strength and Conditioning Techniques****2 Lecture Hours, 2 Lab Hours, 3 Credits****Pre or Corequisites: BIOL 105**

This course introduces students to foundational exercises, equipment, and techniques in resistance and plyometric training. This hands-on course emphasizes correct form, safety protocols, and effective use of strength training equipment, including free weights, machines, and plyometric tools. Students will gain practical experience in exercise variations, program progression, and spotting techniques, preparing them for professional roles in fitness instruction and athletic conditioning.

**EXSI 209 Applied Strength Assessment and Program Design****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: BIOL 105; EXSI 116; EXSI 205**

This course provides a comprehensive, hands-on approach to strength assessment and program design, emphasizing individualized client needs, fitness levels, and goals. Students will learn to conduct a variety of muscular strength, flexibility and functional movement, and body composition assessments. Emphasis is placed on client consultation, goal-setting techniques, and foundational exercise psychology to enhance client motivation and adherence. Through practical labs, students will develop skills in designing and adjusting resistance training programs tailored for individual objectives, while following safety protocols and exercise modifications. This course prepares students to apply evidence-based techniques in real-world fitness and athletic settings.

**EXSI 215 Cardiovascular Fitness Assessment and Program Design****2 Lecture Hours, 2 Lab Hours, 3 Credits****Prerequisites: BIOL 105; EXSI 116; EXSI 205**

This course provides a comprehensive, hands-on approach to cardiovascular fitness assessment and program design. Students will learn to conduct and interpret multiple cardiovascular assessments, including VO<sub>2</sub> max estimations, submaximal tests, and heart rate and blood pressure monitoring. Speed and agility assessments are also included to support program design for athletic performance and endurance. Through practical labs, students will develop skills in designing and modifying programs to improve cardiovascular endurance, speed, and overall fitness. This course prepares students to apply evidence-based cardiovascular training techniques in fitness and athletic settings.

**EXSI 233 Safety, First Aid, CPR, and Injury Protection****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100 and MATH 050****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.

**EXSI 252 Foundation of Fitness****3 Activity Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100 and MATH 050**

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.

**EXSI 260 Exercise Physiology****3 Lecture Hours, 3 Credits****Prerequisites: BIOL 105, BIOL 106, HPER 104, ENGL 060 or ENGL 100**

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.

**EXSI 265 Fitness Assessment & Exercise Prescription****3 Lecture Hours, 3 Credits****Prerequisites: BIOL 105, BIOL 106, HPER 104, ENGL 060 or ENGL 100**

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.

**EXSI 270 Essentials of Personal Training****2 Lab Hours, 1 Credits****Prerequisites or Corequisite: BIOL 106, EXSI 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.

## Finance

**FINC 101 Personal Finance****3 Lecture Hours, 3 Credits****Prerequisites: None**

This course introduces the essential concepts and tools for effectively managing personal finances. Designed for students with no prior background in economics, it focuses on practical strategies for establishing a financial plan, managing cash flow, utilizing credit wisely, and understanding the fundamentals of consumer lending. Key topics include personal tax preparation, budgeting, credit management, housing decisions, and evaluating major asset purchases. By the end of the course, students will develop the skills necessary to make informed financial decisions and plan for long-term financial stability.

**FINC 201 Financial Planning****3 Lecture Hours, 3 Credits****Prerequisites: FINC 101**

This course builds upon foundational knowledge from Personal Finance, guiding students through advanced financial planning concepts. Students will deepen their understanding of risk assessment, insurance, and various investment strategies, including stocks, bonds, mutual funds, and real estate. The course also covers comprehensive retirement planning, estate planning, and tax strategies, equipping students with the tools necessary to make informed financial decisions for long-term success. By the end of the course, students will be able to create personalized financial plans that consider risk tolerance, financial goals, and life stages.

**FINC202 Financial Management****3 Lecture Hours, 3 Credits****Prerequisites: ACCT102 and MATH103**

This course provides a comprehensive introduction to financial management and analysis in a corporate setting. Students will explore the fundamental principles of interest rates, financial statement analysis, and the valuation of stocks, bonds, and portfolios. Additionally, the course covers essential concepts in long-term financial planning, focusing on capital budgeting, corporate financing, and financial forecasting. Emphasis is placed on applying quantitative methods to assess financial health and inform decision-making.

**FINC 203 Corporate Finance****3 Lecture Hours, 3 Credits****Prerequisites: FINC 202**

This course provides an in-depth continuation of corporate finance, focusing on advanced financial decision-making processes. Topics include the cost of capital, capital structure, capital budgeting, project analysis using cost-volume-profit (CVP) techniques, and an introduction to financial and operational leverage. Students must prepare and present a comprehensive financial analysis of a major U.S. corporation, applying the methods and concepts studied in prior courses. This analysis will integrate risk assessment, valuation, and strategic financial decision-making.

**French****FREN 101 Elementary French I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course offers students with no previous knowledge of French an introduction to the French language and culture, including practice in listening, speaking, reading, and writing. General Education Category: Humanities – Broad Based (HUP)

**FREN 102 Elementary French II****3 Lecture Hours, 3 Credits****Prerequisites: FREN 101**

This course offers students a continuation of the development of French language skills introduced in Elementary French I. Listening, speaking, reading, and writing skills, as well as additional grammatical structures of the French language will be emphasized. This course will present various aspects of the cultures of Francophone countries. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

**First Year Experience****FRSH 101 College and Career Planning****1 Lecture Hours, 1 Credits****Prerequisites: 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.

**FRSH 102 Career Development****3 Lecture Hours, 3 Credits****Prerequisites: None**

Designed to provide students with an awareness of career issues, personal values, objectives, and an informative realistic approach to obtaining work.

**FRSH 103 First Year Success****3 Lecture Hours, 3 Credits****Prerequisites: Placement scores**

This course provides an orientation to campus resources and academic skills necessary for the student to achieve their 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 college students in a college learning environment.

**FRSH 104 Learning Strategies****3 Lecture Hours, 3 Credits****Prerequisites: None**

Designed to provide students with the skills needed to increase their chances of having a successful college experience.

**FRSH 105 STEM Seminar****1 Lecture Hours, 1 Credits****Prerequisites: 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/Health majors.

**FRSH 108 Freshman Seminar****3 Lecture Hours, 3 Credits****Prerequisites: None**

Prepares students to utilize academic survival skills, discover and affirm individual values and career goals and assists students in becoming organized, self-aware, motivated and success oriented. This seminar provides a uniquely personal and interactive component wherein students become involved in participatory structured activities as a hands-on approach and application of the principles set forth in lectures, presentations and reading materials.

**FRSH 111 Freshman Seminar & Service Learning****3 Lecture Hours, 3 Credits****Prerequisites: Placement by service learning**

This course will advance student academic and personal success by developing an understanding and self-awareness of the characteristics of effective leadership. The class is designed to provide an understanding of the definition, traits, styles, and characteristics of leadership, with an emphasis on leaders as community change agents. In this seminar learning will Prerequisite: place through a service-learning component as well as interactive lectures, presentation and reading materials.

## Geography

### **GEGR 101** *World Geography*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

A geographical analysis of the major cultural regions of the world, emphasizing the political, religious and environmental properties of each region. General Education Category: Social Science – Society and Human Behavior (SHB). General Education Category: Global and Cultural Awareness (GCA)

### **GEGR 102** *Cultural Geography*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

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. General Education Category: Social Science – Society and Human Behavior (SHB). General Education Category: Global and Cultural Awareness (GCA)

### **GEGR 110** *Geography of North America*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

An analysis of the spatial patterning of humans and their activities, focusing on population movements and the political, religious, and environmental properties of the major cultural regions of North America. General Education Category: Global and Cultural Awareness (GCA)

### **GEGR 115** *Intro to Geographic Systems*

**2 Lecture Hours, 2 Lab Hours, 3 Credits**

**Prerequisites:** ENGL 060

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.

### **GEGR 215** *Geographic Systems II*

**3 Lecture Hours, 3 Lab Hours, 4 Credits**

**Prerequisites:** GEGR 115

Geographic Information Systems II introduces students to the concepts and applications associated with creating, maintaining, analyzing, displaying, and interpreting geospatial data. Through the completion of activities and assignments, students gain experience with the fundamental tools for geospatial analysis, coupled with the knowledge of how best to apply them to real – world issues in the natural and human landscapes. Laboratory exercises support lecture topics.

## Geology

### **GEOL 101** *Physical Geology*

**3 Lecture Hours, 3 Lab Hours, 4 Credits**

**Prerequisites:** ENGL 060 or ENGL 100; MATH 050

Covers the nature and origin of the land and water features of the earth, including studies available concerning the oceans and their floors, with a view to providing an understanding of why our land looks as it does and the conflicts between natural change and man's use of the land and seas. Field trips are also part of this course. General Education Category: Science – Scientific Knowledge and Reasoning (SKR)

### **GEOL 102** *Historical Geology*

**3 Lecture Hours, 3 Lab Hours, 4 Credits**

**Prerequisites:** ENGL 060 or ENGL 100, MATH 050

Covers the prehistoric development of the earth and living things, examines the relationships between land and sea positions and the subsequent development of life forms using physical geology concepts and the study of fossil forms, of plants and animals. Field trips are a part of the course. General Education Category: Science – Scientific Knowledge and Reasoning (SKR)

### **GEOL 111** *Earth Science: Land and Sea*

**3 Lecture Hours, 3 Lab Hours, 4 Credits**

**Prerequisites:** ENGL 060 or ENGL 100, MATH 050

**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. Laboratory exercises will support lecture material. General Education Category: Science – Scientific Knowledge and Reasoning (SKR)

### **GEOL 112** *Earth Science: Air and Space*

**3 Lecture Hours, 3 Lab Hours, 4 Credits**

**Prerequisites:** ENGL 060 or ENGL 100, MATH 050

**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. Laboratory exercises will support lecture material. General Education Category: Science – Scientific Knowledge and Reasoning (SKR)

## German

### **GRMN 101** *Elementary German I*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

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. General Education Category: Humanities – Broad Based (HUP)

## Health, Physical Education, Recreation

### **HPER 103** *Team Sports I*

**1 Lecture Hours, 3 Activity Hours, 2 Credits**

**Prerequisites:** None

**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.

### **HPER 104** *Health and Fitness for the Individual*

**1 Lecture Hours, 2 Lab Hours, 2 Credits**

**Prerequisites:** None

**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.

**HPER 111 Cardiovascular Fitness Activity****2 Activity Hours, 1 Credits****Prerequisites: None****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.

**HPER 112 Introduction to Swimming****1 Lecture Hours, 1 Credits****Prerequisites: None****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 HPER 231 Specialized Swimming.

**HPER 113 Physical Fitness Activities****2 Lecture Hours, 1 Credits****Prerequisites: None****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.

**HPER 117 Weight Training Activities****1 Lecture Hours, 2 Activity Hours, 2 Credits****Prerequisites: None**

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.

**HPER 150 Golf****2 Activity Hours, 1 Credits****Prerequisites: None****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.

**HPER 151 Tennis****2 Activity Hours, 1 Credits****Prerequisites: None****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.

**HPER 152 Bowling****2 Activity Hours, 1 Credits****Prerequisites: None****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.

**HPER 154 Volleyball****2 Activity Hours, 1 Credits****Prerequisites: None****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.

**HPER 170 Stress Management****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**HPER 201 Health and Wellness****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course covers key aspects of individual and community health, including mental health, stress, social connections, sleep, nutrition, and fitness. Students will explore the effects of substance use, sexual health, infectious diseases, and chronic conditions such as cardiovascular disease, diabetes, and cancer. Emphasis will be placed on both personal health behaviors and community health initiatives, with the goal of fostering an understanding of health and wellness.

**HPER 203 Team Sports II****1 Lecture Hours, 2 Activity Hours, 2 Credits****Prerequisites: None****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.

**HPER 205 Technology in Health and Physical Education****2 Lecture Hours, 2 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course will prepare students utilize computers and technology for organizing information, amplifying presentation, developing written documents, and gathering and storing information. Students will evaluate software, evaluate internet sources and mobile apps, and explore non-computer media applications as they apply to teaching and learning. An introduction to data collection and basic descriptive statistics will also be a component of this course.

**HPER 209 Individual and Dual Sports****1 Lecture Hours, 2 Activity Hours, 2 Credits****Prerequisites: None**

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.

**HPER 211 Consumer Health Decisions****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**HPER 214 Principles of Health & Physical Education****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 100 or ENGL 060**

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.

**HPER 231 Specialized Swimming****2 Lecture Hours, 2 Credits****Prerequisites: HPER 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.

**HPER 238 Principles of Coaching****2 Lecture Hours, 2 Credits****Prerequisites: None**

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.

**HPER 240 Introduction to Health, Physical Education & Recreation****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100****This is an overview of the health, physical education and recreation field and assists students in choosing a career path.****HPER 245 Motor Development and Motor Learning****3 Lecture Hours, 3 Credits****Prerequisites: None**

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.

**HPER 257 Pedagogy and Instructional Practices in Health and Physical Education****3 Lecture Hours, 3 Credits****Prerequisites: HPER 214**

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.

## Health Professions

**HPRF 101 Elements of Healthcare Careers****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101, ENGL 101e, ENGL 060 or ENGL 100**

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 all 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.

**HPRF 102 Medical Terminology****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**HPRF 104 Patient Care****1 Lecture Hours, 1 Credits****Prerequisites: ENGL 101 or ENGL 101E**

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.

**HPRF 107 Cross Sectional Anatomy****2 Lecture Hours, 2 Credits****Prerequisites: BIOL 105 with a grade of C or higher****Corequisite: BIOL 106 with a grade of C or higher**

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.

**HPRF 108 Introduction to Health Information****3 Lecture Hours, 3 Credits****Prerequisites: None**

Introduces the student to the aspect of taking health data and presenting it as information. Focus will be on the concepts of health data that include data elements, data sets, data dictionaries, data quality management and the usages of health data. Governmental requirements for data reporting will be reviewed. Data analysis that results in application of information will be emphasized. Basics of health records, format, and documentation will also be discussed. Students will receive instruction on qualitative and quantitative analysis and abstraction with the opportunity to practice from actual health records in the lab. Chart management software will be incorporated into this course for the student to use in the lab.

**HPRF 140 Biomedical Ethics****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 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.

**HPRF 141 Legal and Ethical Issues in Healthcare****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E or ENGL 060 or ENGL 100**

This course will provide an overview of the legal and ethical principles needed for health care workers to give competent and compassionate care to clients. Legal and Ethical Issues in Health Care will allow students to develop skills and information literacy through critical-thinking activities, teamwork, collaboration, and a hands-on approach to learning. The goal for this course will be to provide students with the legal and ethical tools to utilize in building understanding and working toward the resolution of problems that is within acceptable legal and ethical boundaries.

## History

**HIST 101 Western Civilization I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course will acquaint students with the major ideas, people, places, and events that have shaped the course of Western civilization from its beginnings through the sixteenth century. Students will be encouraged to develop a critical and analytical approach to the study of historical problems. Students should understand the complexity of historical forces and increase their understanding of political, social, economic, social, and intellectual developments and their interrelation. General Education Category: Humanities – Humanistic Perspective (HUP)

**HIST 102 Western Civilization I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course will acquaint the student with the major ideas, people, places, and events that have shaped the course of Western civilization from the sixteenth century to the contemporary period. Students will be encouraged to develop a critical and analytical approach to the study of historical problems. Students should discover the complexity of historical forces and increase their understanding of political, social, economic, cultural, and intellectual developments and their interrelation. General Education Category: Humanities – Humanistic Perspective (HUP)

**HIST 103 World History & Culture I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

Students will study the historical development and progression of humankind, specifically the creation of civilization and culture (or cultural identity). This necessarily involves an evaluation of the institutions which evolved and characterized societies. To this end this course will analyze the political, social, economic, intellectual, and technological developments which have shaped societies as manifested in beliefs, values, customs, et.al., and, given them their unique stamp. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

**HIST 104 World History & Culture II****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

An interdisciplinary and comparative study of major non-European civilizations from the 1800s to the present. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

**HIST 113 Latin American History****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course will examine the history of Latin America beginning with the rise of its ancient, indigenous civilizations through the contemporary democratic period. The class is designed to provide an analysis of the institutions, events and issues that have shaped the nations of the region. Current events will also be discussed on a frequent basis. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

**HIST 115 Introduction to Genocide Studies****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

An analysis of the concept of genocide in its modern application and a survey of several examples. Included are historical and current circumstances, rationales and myths, the role of the state and strategies for preventing genocide.

**HIST 117 African-American History****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course is a survey of the major social, economic, political, and cultural history of 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 in-depth analysis of legal and political status as it pertains to the history of a people. Students will be encouraged to develop a critical and analytical approach to historical problems. General Education Category: Humanities – Humanistic Perspective (HUP)

**HIST 121 The Holocaust****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course will examine the constellation of forces that created the conditions culminating in the Holocaust. Particular attention will be given to the historical development of anti-Semitism, the components of Nazi ideology, the nature of totalitarianism and the significance of myths. Finally, this course will evaluate the role of Bystanders, Collaborators and Rescuers. General Education Category: Global and Cultural Awareness (GCA)

**HIST 201 United States History I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course will provide a survey of the political, economic, social, cultural, and intellectual history of the United States from its beginnings through the Civil War. Students will be encouraged to develop a critical and analytical approach to historical problems. Students should discover the complexity of historical forces and historical cycles and increase their appreciation of cultural diversity in American history. General Education Category: Humanities – Humanistic Perspective (HUP)

**HIST 202 United States History II****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course will provide a survey of the political, economic, social, cultural, and intellectual history of the United States from the Reconstruction period to the present. Students will be encouraged to develop a critical and analytical approach to historical problems. Students should discover the complexity of historical forces and historical cycles and increase their appreciation of cultural diversity in American history. General Education Category: Humanities – Humanistic Perspective (HUP)

**HIST 204 The First 100 Years of the American Automobile****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

## Internships and Career Connections

**ISCC 200 Cooperative Education Work Experience****1 Lecture Hours, 1 Credits****Prerequisites: AUTO 101; AUTO 107**

Cooperative education work experience for Automotive Technology Program is full-time, supervised employment for 10-week internship.

**ISCC 203 Cooperative Education Work Experience II****1 Lecture Hours, 1 Credits****Prerequisites: AUTO 110, AUTO111, AUTO 135**

Cooperative education work experience for Automotive Technology Program is full-time, supervised employment for 10-week internship

**ISCC 204 Cooperative Education Work Experience III****1 Lecture Hours, 1 Credits****Prerequisites: AUTO 101; AUTO 107**

Cooperative education work experience for Automotive Technology Program is full-time, supervised employment for 10-week internship.

**ISCC 208 Cooperative Education Work Experience IV****1 Lecture Hours, 1 Credits****Prerequisites: AUTO 110; AUTO 111; AUTO 135; ISCC 204**

Cooperative education work experience for Automotive Technology Program is full-time, supervised employment for 10-week internship.

**ISCC 211 Internship Capstone****1 Lecture Hours, 150 Co-Op, 3 Credits****Prerequisites: 12 completed credit hours**

The Internship Capstone provides students with hands-on experience in their field of study. Students will complete either an internship or submit documentation of prior/current work experience relevant to their career path. This course helps students develop practical skills, gain professional insights, and connect coursework to real-world applications.

## Italian

**ITAL 101 Elementary Italian I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

Offers students with no previous knowledge of Italian an introduction to Italian language and culture. Introductory speaking, listening, reading, and writing skills as well as basic grammatical structures will be introduced. Additionally, students will develop an understanding and appreciation of Italian customs and culture, geography, and history. General Education Category: Humanities – Broad Based (HUP)

**ITAL 102 Elementary Italian II****3 Lecture Hours, 3 Credits****Prerequisites: ITAL 101**

Students will continue to develop the skills acquired through ITAL 101. Students will further their exploration of Italian customs and culture. In addition, students will be introduced to Italian literature through selected readings. General Education Category: Humanities – Broad Based (HUP)

## Law Enforcement

**LENF 108 Police and Personnel Management****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**LENF 210 Contemporary Issues in Law Enforcement****3 Lecture Hours, 3 Credits****Prerequisites: CRIM 105 and CRIM 201**

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.

**LENF 221 Principles of Criminal Investigation****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

An examination of the techniques of criminal investigation and investigative strategies in conjunction with legal responsibilities and controls that govern police investigations.

**LENF 227 Introduction to Corrections****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**LENF 234 Introduction to Security****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

This course introduces the systems, organization, design, and implementation of security systems, including government, business, industry, and proprietary.

## Mathematics

### **MATH 010 Intro to College Math**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

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.

### **MATH 011 Introductory College Mathematics Accelerated**

**1 Lecture Hours, 1 Credits**

**Prerequisites:** None

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.

### **MATH 050 Elementary Algebra**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** MATH 010, MATH 011

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.

### **MATH 051 Elementary Algebra Review**

**1 Lecture Hours, 1 Credits**

**Prerequisites:** MATH 050 (grade of P)

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.

### **MATH 100 Foundations of Mathematics I**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060

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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

### **MATH 101 Concepts of Mathematics**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** MATH 050, MATH 051, MATH 100  
or equivalent; ENGL 060 or ENGL 100

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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

### **MATH 102 Survey of Mathematics**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** MATH 050, MATH 100; ENGL 060

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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

### **MATH 103 Statistics I**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** MATH 050, MATH 100; ENGL 060

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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

### **MATH 105 Intermediate Algebra**

**4 Lecture Hours, 4 Credits**

**Prerequisites:** MATH 050; ENGL 060

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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

### **MATH 109 Technical Mathematics**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** Admission into the Auto Tech 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.

### **MATH 110 Algebra & Trigonometry**

**4 Lecture Hours, 4 Credits**

**Prerequisites:** MATH 105

Topics include polynomial, rational, other algebraic functions; complex number system; exponential and logarithmic functions; and properties and graphs of functions, and trigonometry. This course is designed for students who may continue in math, science, technology or business related fields. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

### **MATH 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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

### **MATH 115 Structures of Mathematics I**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** MATH 050, MATH 100, and ENGL 060

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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

### **MATH 117 Structures of Mathematics II**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** MATH 115

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.

**MATH 118 College Trigonometry****3 Lecture Hours, 3 Credits****Prerequisites: MATH 114**

A continuation of MATH 110. Topics include angular measure, trigonometric functions, identities and equations, curve sketching, inverse trigonometric functions, applications on right triangles, oblique triangles, vectors, complex numbers, polar coordinates, and conic sections. This course is designed for students who may continue in math, science, technology, or business-related fields. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 119 College Geometry****3 Lecture Hours, 3 Credits****Prerequisites: MATH 050, ENGL 060**

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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 120 Pre-Calculus and Mathematical Analysis****4 Lecture Hours, 4 Credits****Prerequisites: MATH 110 or 3 years of HS math including a semester of trigonometry**

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, rational, logarithmic and exponential functions, a review of trigonometry, the complex number system, polar coordinates and an introduction to limits. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 121 Pre-Calculus Mathematics****4 Lecture Hours, 4 Credits****Prerequisite: MATH 118, MATH 110 or three years of HS math including trigonometry**

Topics include polynomial, rational, exponential, logarithmic and trigonometric functions, the complex number system, and conic sections. Precalculus is designed to prepare students for Calculus I. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 125 Mathematics for Management****4 Lecture Hours, 4 Credits****Prerequisites: MATH 105**

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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 126 Applied Calculus****4 Lecture Hours, 4 Credits****Prerequisites: MATH 120 or MATH 125 or MATH 121**

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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 130 Calculus I****4 Lecture Hours, 4 Credits****Prerequisite: MATH 120 or MATH 121**

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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 140 Calculus II****4 Lecture Hours, 4 Credits****Prerequisite: MATH 130**

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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 200 Foundations of Mathematics II****3 Lecture Hours, 3 Credits****Prerequisites: MATH 100 or MATH 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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 201 Discrete Mathematics****3 Lecture Hours, 3 Credits****Prerequisites: MATH 120 or MATH 121**

This course is directed toward computer science and mathematics majors. Topics include sets, relations, functions, logic, induction, combinations, Boolean algebra, recurrence relations, digraphs, and trees. Emphasis is on the solution of problems. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 203 Statistics II****3 Lecture Hours, 3 Credits****Prerequisites: MATH 103**

Provides additional statistical research tools and techniques. Topics include testing the difference between means, variances, and proportions; f-test; chi-squared test; ANOVA; linear and multiple regression; correlation; and non-parametric tests. Statistical tests will be presented in the context of basic research techniques. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 212 Linear Algebra****3 Lecture Hours, 3 Credits****Prerequisites: MATH 130 or MATH 140**

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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 225 Calculus III****4 Lecture Hours, 4 Credits****Prerequisites: MATH 140**

This course expands the concepts from MATH 130 and MATH 140 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. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

**MATH 229 Reasoning and Proof****4 Lecture Hours, 4 Credits****Prerequisite: MATH 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.

**MATH 230 Differential Equations**

**4 Lecture Hours, 4 Credits**

**Prerequisites: MATH 216**

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. Other topics include existence and unique theorems, phase plane and equilibrium points as well as modeling real world problems. General Education Category: Mathematics – Quantitative Knowledge and Skills (QKS)

## Music

**MUSI 101 Music Appreciation**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 101 or ENGL 101E**

MUSI 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. General Education Category: Humanities – Humanistic Perspective (HUP)

**MUSI 105 Music in Childhood Education**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060 or ENGL 100**

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.

**MUSI 109 Choral Workshop I**

**2 Studio Hours, 2 Lecture Hours, 3 Credits**

**Prerequisites: None**

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.

**NOTE:**

- Enrollment is conditional and subject to audition during the first class of the semester to determine the student's ability to sing.
- Students who do not pass the audition will be asked to drop the class and will be assisted in choosing a replacement course.
- Course requirements include preparing for and participating in a concert with a community chorus.

**MUSI 110 Choral Workshop II**

**2 Studio Hours, 2 Lecture Hours, 3 Credits**

**Prerequisites: MUSI 109**

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.

**NOTE:**

- Enrollment is conditional and subject to audition during the first class of the semester to determine the student's ability to sing.
- Students who do not pass the audition will be asked to drop the class and will be assisted in choosing a replacement course.
- Course requirements include preparing for and participating in a concert with a community chorus.

**MUSI 111 Choral Workshop III**

**2 Studio Hours, 2 Lecture Hours, 3 Credits**

**Prerequisites: MUSI 110**

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.

**NOTE:**

- Enrollment is conditional and subject to audition during the first class of the semester to determine the student's ability to sing.
- Students who do not pass the audition will be asked to drop the class and will be assisted in choosing a replacement course.
- Course requirements include preparing for and participating in a concert with a community chorus.

**MUSI 112 Choral Workshop IV**

**2 Studio Hours, 2 Lecture Hours, 3 Credits**

**Prerequisites: MUSI 111**

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.

**NOTE:**

- Enrollment is conditional and subject to audition during the first class of the semester to determine the student's ability to sing.
- Students who do not pass the audition will be asked to drop the class and will be assisted in choosing a replacement course.
- Course requirements include preparing for and participating in a concert with a community chorus.

**MUSI 113 Fundamentals of Musicianship**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060 or ENGL 100**

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.

**MUSI 118 American Popular Music****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060**

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 genre. 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 & developments within a rich historical context that includes issues of race, gender, and class.

**MUSI 120 Music Theory I****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 and MUSI 113**

Music Theory I 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.

**MUSI 128 History of Music****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060**

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.

**MUSI 136 History of Musical Theatre****3 Lecture Hours, 3 Credits****Prerequisites or Corequisites: ENGL 101 or ENGL 101E**

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, & 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.

**MUSI 201 American Music****3 Lecture Hours, 3 Credits****Prerequisites: MUSI 101, ENGL 060**

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.

**MUSI 224 Aural Skills I****1 Lecture Hours, 1 Credits****Prerequisites: MUSI 113 and a grade of "C" or higher;****Corequisite: MUSI 120**

This course is designed to augment and complement, Music Theory I (MUSI 120); 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 (MUSI 113), 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.

## Nursing

**NURS 102 Dosage Calculations for Nurses****1 Lecture Hours, 1 Credits****Pre-requisite: MATH 050 or MATH 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 Hours, 1 Credits****Prerequisites: ENGL 060 or ENGL 100 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****Prerequisites: BIOL 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: ENGL 060 or ENGL 100****Corequisite or Prerequisite: BIOL 105, PSYC 101, ENGL 101/ENGL 101E****Corequisite: NURS 111 – Nursing I Lab****Program Fee: \$2,000**

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 Lab Hours, 1 Credits****Prerequisites: ENGL 060 or ENGL 100****Corequisite or Prerequisite: BIOL 105, PSYC 101, ENGL 101/ENGL 101E****Corequisite: NURS 110 – Nursing I****Course 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 professions on the College campus.

**NURS 115 LPN to RN Track****3 Lecture Hours, 3 Credits****Prerequisites: Acceptance into the Nursing Program.****And BIOL 105, PSYC 101, ENGL 101/ENGL 101E**

This course introduces the Licensed Practical Nurse (LPN) to the role of the registered professional nurse (RN) and is the foundation for all subsequent nursing courses. The nurse's role in promotion, maintenance and restoration of health is explored within the context of a research and practice-oriented profession in addition to teamwork, collaboration, and effective communication. Nursing trends, the teaching learning process and the art and science of caring are discussed. Legal and ethical aspects of the profession are explored. A component of this course will familiarize the student with technology utilized within RCSJ and the Nursing Program. NOTE: Upon successful completion of NURS 115 LPN-RN students will matriculate into generic track.

**NURS 120 Nursing II****6 Lecture Hours, 135 Clinical Hours, 9 Credits****Prerequisites: NURS 110 & NURS 111****Corequisites and Prerequisites: BIOL 106, ENGL 102****Corequisite: NURS 121 – Nursing II Lab****Program Fee: \$2,000**

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

**NURS 121 Nursing II Lab****2.5 lab hours, 1 credit****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****2 Lecture Hours, 2 Credits****Prerequisites: 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, BIOL 106, ENGL 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****Corequisites and Prerequisites: BIO 215****Corequisite: NURS 231 – Nursing III Lab****Program Fee: \$2,000**

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 Lab Hours, 1 Credits****Corequisites and Prerequisites: BIO 215****Corequisite: 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 professions on the College campus

**NURS 240 Nursing IV****5 Lecture Hours, 90 Clinical Hours, 7 Credits****Corequisites and Prerequisites: NURS 230, NURS 231****Program Fee: \$2,000**

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.

## Nuclear Medicine Technology

**NMTI 106 Radiation Safety and Biology****1 Lecture Hours, 1 Credits****Prerequisites: Acceptance into the program; Grade of C or higher in PHYS 123, CHEM 101, BIOL 105, and BIOL 106;****Pre or Corequisite: Grade of C or higher in HPRF 107 and NMTI 107**

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

**NMTI 107 Radiation Physics****2 Lecture Hours, 2 Credits****Prerequisites: Acceptance into the program; Grade of C or higher in PHYS 123, CHEM 101, BIOL 105, and BIOL 106;****Pre or Corequisite: Grade of C or higher in HPRF 107 and NMTI 106**

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

**NMTI 114 Clinical Imaging Procedures I****2 Lecture Hours, 2 Credits****Prerequisites:** Acceptance into the program; Grade of C or higher in PHYS 123, CHEM 101, BIOL 105, and BIOL 106

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

**NMTI 116 Basic Nuclear Medicine Procedures****1 Lecture Hours, 3 Lab Hours, 2 Credits****Prerequisites:** Acceptance into the program; Grade of C or higher in PHYS 123, CHEM 101, BIOL 105, and BIOL 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.

**NMTI 205 Clinical Internship I****450 Clinical Hours, 10 Credits****Prerequisites:** Grade of C or higher in NMTI 106, NMTI 107, HPRF 107, NMTI 114, and NMTI 116**Program Fee:** \$2,000

This course introduces students into the clinical environment with directed practice in nuclear radiopharmacy, clinical imaging procedures and basic instrumentation.

**NMTI 210 Clinical Imaging Procedures II****1 Lecture Hours, 1 Credit****Prerequisites:** Grade of C or higher in NMTI 106, NMTI 107, HPRF 107, NMTI 114, and NMTI 116**Pre or Corequisite:** Grade of C or higher in NMTI 205, NMTI 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.

**NMTI 215 Radiopharmacy****1 Lecture Hours, 3 Lab Hours, 2 Credits****Prerequisites:** Grade of C or higher in CHEM 101, NMTI 106, NMTI 107, HPRF 107, NMTI 114, and NMTI 116;**Pre or Corequisite:** Grade of C or higher in NMTI 205 and NMTI 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.

**NMTI 227 Clinical Internship II****450 Clinical Hours, 10 Credits****Prerequisites:** Acceptance in the program; Grade of C or higher in NMTI 205, NMTI 210, and NMTI 215;**Pre or Corequisite:** Grade of C or higher in NMTI 230 and NMTI 233**Program Fee:** \$2,000

This course completes the clinical component by providing clinical practice of advanced instrumentation procedures, clinical imaging procedures and radiopharmaceutical preparation and administration.

**NMTI 230 Nuclear Instrumentation and Statistics****1 Lecture Hours, 3 Lab Hours, 2 Credits****Prerequisites:** Grade of C or higher in NMTI 205, NMTI 210, and NMTI 215**Pre or Corequisite:** Grade of C or higher in NMTI 227 and NMTI 233**Course 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.

## Nutrition

**NTRN 101 Nutrition****3 Lecture Hours, 3 Credits****Prerequisites:** ENGL 060 or ENGL 100

This course provides students with basic nutrition information that can be incorporated into daily life. Topics include exploration of the controversies and myths concerning food, diet, and weight control.

**NTRN 102 Nutrition for Health Professions****3 Lecture Hours, 3 Credits****Prerequisites:** ENGL 060 or ENGL 100

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.

**NTRN 105 Introduction to Nutrition Professions****3 Lecture Hours, 3 Credits****Prerequisites:** ENGL 060 or ENGL 100

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, dietetics, and wellness professions. 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 approved nutrition related experiences. 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.

## Paralegal

**PARA 101 Introduction to Legal Studies****3 Lecture Hours, 3 Credits****Prerequisites:** ENGL 060 or ENGL 100

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.

**PARA 102    *Litigation and Civil Procedure***

**3 Lecture Hours, 3 Credits**

**Pre or Corequisites: PARA 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.

**PARA 103    *Legal Research and Writing***

**3 Lecture Hours, 3 Credits**

**Pre or Corequisites: ENGL 101 or ENGL 101E and PARA 101**

This course develops basic skills in analyzing legal problems, researching the problems, and searching for legal authority. Students analyze legal problems using locators, briefcases, use Shepard's Citators and use computer-assisted legal research and reporter systems

**PARA 104    *Torts***

**3 Lecture Hours, 3 Credits**

**Pre or Corequisites: PARA 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.

**PARA 110    *Contemporary Issues in Paralegal Studies***

**3 Lecture Hours, 3 Credits**

**Prerequisites: PARA 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.

**PARA 125    *Business Organizations for Paralegals***

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060 or ENGL 100**

**Corequisite: PARA 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.

**PARA 201    *Criminal Law and Procedure***

**3 Lecture Hours, 3 Credits**

**Pre or Corequisites: PARA 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.

**PARA 203    *Bankruptcy***

**3 Lecture Hours, 3 Credits**

**Pre or Corequisites: PARA 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.

**PARA 204    *Technology in the Law Firm***

**3 Lecture Hours, 3 Credits**

**Prerequisite: CISM 101 or CISM 119; Pre or Corequisite: PARA 101**

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.

**PARA 205    *Wills, Trusts, and Estate Planning***

**3 Lecture Hours, 3 Credits**

**Pre or Corequisites: PARA 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.

**PARA 207    *Family/Domestic Law***

**3 Lecture Hours, 3 Credits**

**Pre or Corequisites: PARA 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.

**PARA 209    *Legal Assistant Practicum***

**1 Lecture Hours, 210 Internship Hours, 3 Credits**

**Prerequisites: 45 credits, including 15 PARA credits or equivalent; PARA 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.

**PARA 210    *Property Transactions***

**3 Lecture Hours, 3 Credits**

**Pre or Corequisites: PARA 101, PARA 103, BUSN 109**

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.

**PARA 212    *Paralegal Skills and Office Practices***

**3 Lecture Hours, 3 Credits**

**Pre or Corequisites: PARA 101, PARA 103**

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.

## Philosophy

### **PHIL 101 Introduction to Philosophy**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060 or ENGL 100**

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.

### **PHIL 102 Ethics**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060 or ENGL 100**

PHIL 102 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.

### **PHIL 150 Critical Thinking**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060 or ENGL 100**

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.

### **PHIL 201 Philosophy and History of Science**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 100 or ENGL 060 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.

### **PHIL 204 Contemporary Moral Issues**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 100 or ENGL 060 and PHIL 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.

### **PHIL 210 Ancient and Medieval Philosophy**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 100 and ENGL 060 and PHIL 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.

## Political Science

### **POLS 101 American Federal Government**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060 or ENGL 100**

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.

### **POLS 103 Introduction to Political Science**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060 or ENGL 100**

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.

### **POLS 201 Introduction to Comparative Politics**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 100 or ENGL 060**

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.

### **POLS 203 State & Local Government**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060 or ENGL 100**

This course will acquaint the student with the basic principles and functions of government at the state and local level with special attention to New Jersey's state, county, and local government structure, and function. The course will examine Federalism, political parties, elections, and the three branches of government in the context of New Jersey politics. Students will be encouraged to develop a critical and analytical approach to political issues and public policy.

### **POLS 206 Introduction to International Politics**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 100 or ENGL 060**

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.

## Public Administration

### **PCAD 101 Public Administration**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060 or ENGL 100**

An examination of the relationships between government and business, and contemporary theories of leadership practices and principles.

### **PCAD 200 Public Budgeting and Grant Writing**

**3 Lecture Hours, 3 Credits**

**Prerequisites: PCAD 101**

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

## Practical Nursing

### **PRAC 105 Practical Nursing Reflections**

**1 Lecture Hours, 1 Credits**

**Prerequisites:** 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 Hours, 4 Credits**

**Prerequisites or Corequisites:** BIOL 105, ENGL 101 or ENGL 101E

**Corequisites:** PRAC 111 Practical Nursing Lab

**Program Fee:** \$2,000

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**

**Prerequisites or Corequisites:** BIOL 105, ENGL 101 or ENGL 101E

**Corequisite:** PRAC 110 Practical Nursing I

**Course 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 Hours, 3 Credits**

**Prerequisites:** PRAC 110 Practical Nursing I,  
PRAC 111 Practical Nursing Lab

**Corequisites:** BIOL 105, ENGL 101 or ENGL 101E

This course provides an overview of the role of the practical nurse as part of the healthcare team in childbearing and child rearing experiences. Hands-on practice occurs in a variety of clinical settings off campus with diverse patient populations.

### **PRAC 130 Practical Nursing III**

**2 Lecture Hours, 45 Clinical Hours, 3 Credits**

**Prerequisites and Corequisites:** BIOL 106, PSYC 101

**Prerequisites:** PRAC 120 Practical Nursing II

**Program Fee:** \$2,000

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 Hours, 5 Credits**

**Prerequisites and Corequisites:** BIOL 106, PSYC 101

**Prerequisites:** PRAC 130 Practical Nursing III

**Course Fee:** \$600

This course prepares the practical nursing student to be an integral part of the healthcare team in delivering safe competent care to a diverse population. Hands-on practice occurs in a variety of clinical settings off campus.

## Psychology

### **PSYC 100 Interpersonal Psychology**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** Placement based on basic skills test, open to developmental 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.

### **PSYC 101 General Psychology**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

An introduction to the study of behavior including the principles of learning, thinking, and perceiving; emotion, motivation, and personality development; and the biological basis of behavior. General Education Category: Social Sciences – Society and Human Behavior (SHB)

### **PSYC 102 Child Psychology**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 101

A survey of the psychological and social development of the child with emphasis placed upon the formation of attitudes, group processes and structure, and the relationship of the developing individual to sociocultural systems. General Education Category: Social Sciences – Society and Human Behavior (SHB)

### **PSYC 103 Child Development & Learning**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100, EDUC 106

An overview of child development from birth through age eight. Examines the work of major theorists and the relationship between development, learning, and educating young children.

### **PSYC 200 Understanding Addictive Behavior**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 101

An exploration of the signs, symptoms, and causes of addictive behavior. The focus is on addiction as a disease and its effects on the individual and family, in addition to a discussion of the support systems for those affected by addictions.

### **PSYC 203 Educational Psychology**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 101

This course focuses on the learning process in children and adolescents, in an educational setting, with emphasis on motivation, problem solving, assessment and evaluation. A variety of theories of development and pedagogical practices which influence the emotional, intellectual, physical, and social advances that occur during childhood will be explored. Current issues in education such as student diversity, authentic assessment, the role of research, principles of behavior and cognition information processing lesson construction and motivational strategies will be carefully examined. Field observation reports are required.

**PSYC 205 Psychopharmacology****3 Lecture Hours, 3 Credits****Prerequisites: PSYC 101**

This course is an overview of pharmacology in relationship to addictions and their effect on the human body. Alcohol and drugs of abuse and addiction and they affect behavior will be examined and the classification of medications, legal and illegal. Legal and ethical principles regarding clinical drug trials and the FDA approval process and legalities of drug trafficking will be covered. Emphasis is on acute and chronic effects, neurobehavioral dysfunctions, and other multi-sided aspects of addiction. A special emphasis will be placed on culture, ethnic and age-related consideration. This course will provide an understanding of the role of pharmacology in the counseling field.

**PSYC 211 Psychology of Human Development****3 Lecture Hours, 3 Credits****Prerequisites: PSYC 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. General Education Category: Social Sciences – Society and Human Behavior (SHB)

**PSYC 212 Psychology of the Adolescent****3 Lecture Hours, 3 Credits****Prerequisites: PSYC 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. General Education Category: Social Sciences – Society and Human Behavior (SHB)

**PSYC 215 Psychology of Aging****3 Lecture Hours, 3 Credits****Prerequisites: PSYC 101**

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. General Education Category: Social Sciences – Society and Human Behavior (SHB)

**PSYC 230 Abnormal Psychology****3 Lecture Hours, 3 Credits****Prerequisites: PSYC 101**

This is a study of behavior and personality disorders. Social, physiological and individual factors of behavior disorganization, evaluation and treatment are reviewed.

**PSYC 231 Abuse and Violence in the Family****3 Lecture Hours, 3 Credits****Prerequisites: PSYC 101**

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.

**PSYC 240 Social Psychology****3 Lecture Hours, 3 Credits****Prerequisites: PSYC 101 or SOCI 101**

This is an introduction to the concepts of group behavior, their empirical foundations, and their implications for the individual in interpersonal relationships.

## Physical Therapy Assistant

**PTAS 102 Kinesiology and Measurement of the Musculoskeletal System****3 Lecture Hour, 7 Lab Hours, 6 Credits****Prerequisites: Grade of C+ or better in BIOL 105 and MATH 108****Corequisite: BIOL 106; PTAS 101****Course Fee: 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.

**PTAS 103 Introduction to Physical Therapist Assisting****3 Lecture, 3 Credits****Prerequisites: "C+" or better in ENGL 101 or ENGL 101E****Pre/Corequisites: "C+" or better in PTAS 115**

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 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.

**PTAS 106 Health and Wellness Promotion in Physical Therapy****1 Lecture Hours, 1 Credits****Prerequisites: Grade C or better in ENGL 101 or ENGL 101E****Corequisite: PTAS 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.)

**PTAS 107 Essential Skills for the PTA I: Patient Care**

**2 Lecture Hours, 6 Lab Hours, 4 Credits**

**Prerequisites:** PTAS 102;

**Corequisite:** PTAS 207 & PTAS 208

**Course Fee:** 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.

**PTAS 108 Therapeutic Exercise**

**2 Lecture Hours, 2 Credits**

**Prerequisites:** "C+" or better in BIOL 105

**Pre/Corequisites:** "C+" or better in PTAS 110 & PTAS 115

This course will examine the fundamentals and physiological effects of therapeutic exercise and techniques. Students will be introduced to the principles of range of motion, stretching, resistance, aerobic, and balance exercise. This course will also identify methods for physical therapy professionals to be effective change agents in the promotion of public health, prevention, and wellness initiatives.

**PTAS 110 Kinesiology and Measurement I**

**1 Lecture Hours, 2 Lab Hours, 3 Credits**

**Prerequisites:** "C+" or better in BIOL 105 and MATH 108

**Pre/Corequisites:** "C+" or better in BIOL 106, PTAS 108, & PTAS 115

**Course Fee:** H

Building upon Anatomy & Physiology I, this course will provide an in-depth study of the biomechanical principles and anatomical structures responsible for human movement with a focus on the upper extremities and spine. Students will be expected to demonstrate in lab competency with palpation of anatomical landmarks, assessing anthropometric measurements, muscle strength, joint range of motion, and application of therapeutic exercise. Documentation regarding data collection and treatment interventions will also be included.

**PTAS 115 Patient Care for the PTA I**

**1 Lecture Hours, 1 Lab Hours, 2 Credits**

**Pre/Corequisites:** "C+" or better in PTAS 103, PTAS 108, & PTAS 110

**Course Fee:** G

This course will introduce students to fundamental patient care skills and assessment techniques, including patient interviewing, vital signs, body mechanics, positioning, bed mobility, aseptic techniques, and basic wound care. During laboratory time, students will practice skills utilizing simulated patient care scenarios prior to being assessed through skill competency testing and practical examinations.

**PTAS 120 Kinesiology and Measurement II**

**1 Lecture Hours, 2 Lab Hours, 3 Credits**

**Prerequisites:** "C+" or better in PTAS 108 & PTAS 110

**Pre/Corequisites:** "C+" or better in PTAS 125, & PTAS 203

**Course Fee:** H

This course will provide an in-depth study of the biomechanical principles and anatomical structures responsible for human movement with a focus on the pelvis and lower extremities, posture, and gait. Students will be expected to demonstrate in lab competency with palpation of anatomical landmarks, assessing muscle strength, joint range of motion and application of therapeutic exercise. Documentation regarding data collection and treatment interventions will also be included.

**PTAS 125 Patient Care for the PTA II**

**1 Lecture Hours, 2 Lab Hours, 3 Credits**

**Prerequisites:** "C+" or better in PTAS 103 & PTAS 115

**Pre/Corequisites:** "C+" or better in PTAS 105 & PTAS 120

**Course Fee:** G

This course is designed to provide students with fundamental patient care skills and assessment techniques including transfer techniques, gait training, therapeutic exercise, 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.

**PTAS 202 Lifespan Neurorehabilitation**

**3 Lecture Hours, 2 Lab Hours, 5 Credits**

**"C+" or better in PSYC 101, PTAS 105, & PTAS 125**

**Pre/Corequisites:** "C+" or better in PTAS 205, PTAS 211, PTAS 213, & PTAS 217

**Course Fee:** H

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.

**PTAS 203 Biophysical Agents**

**2 Lecture Hours, 1 Lab Hours, 3 Credits**

**Prerequisites:** "C+" or better in PTAS 110;

**Pre/Corequisites:** "C+" or better in PTAS 120

**Course Fee:** G

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.

**PTAS 205 Orthopedics for the PTA**

**2 Lecture Hours, 2 Credits**

**Prerequisites:** "C+" or better in PTAS 105 & PTAS 125

**Pre/Corequisites:** "C+" or better in PTAS 202, PTAS 211, PTAS 213, & PTAS 217

This course builds upon the concepts introduced in Kinesiology and Measurement I & II, 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.

**PTAS 207 Essential Skills for the PTA II: Biophysical Agents**

**2 Lecture Hours, 6 Lab Hours, 4 Credits**

**Prerequisites:** PTAS 102;

**Concurrency:** PTAS 107 or **Corequisite:** PTAS 208

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.

**PTAS 208 Management of Neurological Disorders Across Lifespan**

**3 Lecture Hours, 3 Lab Hours, 4 Credits**

**Prerequisites:** PTAS 105;

**Concurrency:** PTAS 107 or **Corequisite:** PTAS 207

**Course Fee:** H

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.

**PTAS 209 Clinical Experience I**

**90 Clinical Hours, 2 Credits**

**Prerequisites:** PTAS 102

**Concurrency:** PTAS 107 or **Prereq:** PTAS 102, PTAS 107, PTAS 210

**Program Fee:** \$2,000

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.

**PTAS 210 Orthopedics for the PTA**

**1 Lecture Hours, 1 Lab Hours, 1 Credits**

**Prerequisites:** PTAS 102;

**Corequisites:** PTAS 105 and PTAS 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.

**PTAS 211 Clinical Experience I**

**135 Clinical Hours, 3 Credits**

**Prerequisites:** "C+" or better in PTAS 120, PTAS 125 & PTAS 203;

**Pre/Corequisites:** "C+" or better in PTAS 202, PTAS 205, PTAS 213, & PTAS 217

**Program Fee:** \$2,000

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.

**PTAS 213 Geriatrics and Special Populations**

**2 Lecture Hours, 2 Credits:**

**Prerequisites:** "C+" or better in PTAS 105 & PTAS 120

**Pre/Corequisites:** "C+" or better in PTAS 202, PTAS 205, PTAS 211, & PTAS 217

This course is designed to prepare students with the knowledge to care for older adults and other special populations. Students will learn evidence-based approaches based on the unique needs, challenges, and considerations when working with geriatric, sports medicine, complex medical, and other individuals with diverse health conditions. Students will also build upon previously learned knowledge to address healthcare disparities in physical therapy practice.

**PTAS 216 Cardiovascular and Pulmonary PT**

**1 Lecture Hours, 2 Lab Hours, 2 Credits**

**Prerequisites:** PTAS 102 and PTAS 105

**Course Fee:** H

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.

**PTAS 217 Cardiovascular and Pulmonary PT**

**1 Lecture Hours, 2 Lab, 3 Credits**

**Prerequisites:** "C+" or better in PTAS 105 & PTAS 125

**Pre/Corequisites:** "C+" or better in PTAS 202, PTAS 205, PTAS 211, & PTAS 213

**Course Fee:** H

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 skills learned in lecture and laboratory will be assessed through skill-competency testing, written examinations, and practical examinations.

**PTAS 221 Clinical Experience II**

**225 Clinical Hours, 5 Credits**

**Prerequisites:** "C+" or better in PTAS 202, PTAS 205, PTAS 211, PTAS 213, & PTAS 217

**Corequisites:** PTAS 245

**Program Fee:** \$2,000

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. 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.

**PTAS 229 Clinical Experience II**

**270 Clinical Hours, 6 Credits**

**Prerequisites:** PTAS 102, PTAS 207, and PTAS 208; or PTAS 207, 208, 209, 210, and 216

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.

**PTAS 231 Clinical Experience III**  
**225 Clinical Hours, 5 Credits**  
**Prerequisites:** "C+" or better in PTAS 221  
**Corequisites:** "C+" or better in PTAS 245  
**Course Fee:** S  
**Program Fee:** \$2,000

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. 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.

**PTAS 239 Clinical Experience IV**  
**270 Clinical Hours, 6 Credits**  
**Prerequisites:** PTAS 107, 207, 208, and 229; or PTAS 229  
**Corequisites:** PTAS 240  
**Program Fee:** \$2,000

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.

**PTAS 240 Seminar in PTA Professionalism**  
**1 Lecture Hours, 1 Credits**  
**Prerequisites:** PTAS 209  
**Corequisites:** PTAS 229 and PTAS 239  
**Additional Fee:** \$125 per test Exit Exam

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.

**PTAS 245 Seminar in PTA Professionalism**  
**2 Lecture Hours, 2 Credits**  
**Prerequisites:** "C+" or better in PTAS 211  
**Corequisites:** "C+" or better in PTAS 221 & PTAS 231  
**Additional Fee:** \$125 per test Exit Exam

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.

## Physics

**PHYS 101 Principles of Physical Science**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites:** ENGL 060  
**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. Lecture topics supported by a lab component. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**PHYS 104 Energy, The Environment & Society**  
**3 Lecture Hours, 3 Credits**  
**Prerequisites:** MATH 050  
**Course Fees:** C, H

This course provides an overview of the ways modern society utilizes and converts energy in its quest for technological and economic advancement. The course covers important topics such as energy (fundamental units, concepts, history of development and current problems) and its impact on the global environment. An overview of the current unsustainable (coal, oil, natural gas, nuclear) as well as sustainable technologies (solar, wind, wave, biomass, geothermal, tidal, hydropower) is provided. In addition, the student is made aware of the important role energy conversion and utilization by industrialized and industrializing countries presently plays in global climate change. The course forms the foundation for student knowledge of energy and its relationship to economic prosperity. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**PHYS 106 Physics of Musical Sound**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites:** ENGL 050, MATH 010  
**Course Fees:** C, H

This course explores the physics of sound as generated by stringed musical instruments. Students will learn how the components of stringed instruments contribute to the production of audible sound in a manner that allows musical expression. Lecture topics supported by a lab component.

**PHYS 107 Technical Physics**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites:** MATH 110 and ENGL 060  
**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. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**PHYS 109 Applied Physics**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites:** MATH 109, ENGL 060 & 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. Lecture topics supported by a lab component.

**PHYS 110 Principles of Science I**  
**3 Lecture Hours, 3 Lab Hours, 4 Credits**  
**Prerequisites:** ENGL 060, MATH 050  
**Course Fees:** C, H

Introduces the non-science major to selected topics in geology, astronomy, physics, and chemistry. Among the topics discussed will be atoms, molecules, chemical change, the solar system, the planet earth, igneous rocks, sedimentary rocks, and metamorphic rocks. The laboratory section will provide experiments in selected topics in geology, astronomy, physics, and chemistry to support the lecture section. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**PHYS 115 Astronomy****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: ENGL 060, MATH 110 or MATH 118****Course Fees: C, H**

An introductory course in astronomy for nonscience majors. The basic concepts in astronomy will be presented with emphasis on the solar system. Universal law of gravitation will be discussed as it pertains to the formation and evolution of stars and other astronomical structures. Asteroids, Comets, pulsars, Neutron Stars, and black holes are among the topics of discussion. Students will be exposed to some basic techniques used to gather and analyze experimental astronomical data. Lab activities will include measurement of angular position of Polaris and change in angle of ecliptic, and observation and interpretation of the phases of the moon. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**PHYS 117 Introduction to Geometric & Wave Optics****3 Lecture Hours, 2 Lab, 4 Credits****Prerequisites: MATH 121 or permission****Course Fees: C, H**

Introduction to Geometric & Wave Optics is an introductory course in Optics in which the basic concepts in light and its behavior will be discussed. The focus of this course is the study of the wave nature of light and the associated phenomena. The course consists of two general subcategories of Geometric Optics and Wave optics. Reflection, refraction, and image formation, employing ray optics, will be the main topics of the geometric optics while interference, diffraction, polarization, and thin film interference outline the wave optics. The three-hour weekly lectures are complemented by weekly laboratory experiments. Lecture topics supported by a lab component.

**PHYS 120 Introduction to Photonics****2 Lecture Hours, 2 Lab, 3 Credits:****Prerequisites: None****Course Fees: C, H**

This course is an introduction to Photonics, starting with the basic laser safety measures followed by introductory discussion of the elementary principles of light and its applications and the mechanism of light production and lasers. The nature of light and its duality will be introduced and the basic atomic model will be presented and association between the atomic energy and light will be discussed. Lecture topics supported by a lab component.

**PHYS 125 Physics for Everyday Life****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: ENGL 060****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. Lecture topics supported by a lab component. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**PHYS 123 General Physics I****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: MATH 110 and ENGL 060****Course Fees: C, H**

This is an algebra-based physics course. This course provides exposure to the laws of mechanics, kinematics, dynamics, statics, energy, momentum, rotational motion, material properties, heat, thermodynamics, waves and oscillation. Lecture topics supported by a lab component. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**PHYS 124 General Physics II****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: PHYS 123****Course Fees: C, H**

This is an algebra based Physics course. This course provides the students exposure to the laws of electricity, magnetism, geometrical and wave optics, light, dynamics, heat, thermodynamics, power generation and consumption as well as electrostatics. Lecture topics supported by a lab component. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**PHYS 201 Physics with Calculus I****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: MATH 130 (grade of C or higher)****Course Fees: C, H**

This is a calculus based course in general physics providing exposure to mechanics, heat, oscillations and waves, static, dynamic, kinematic and rotational motion, and thermodynamics. Among the topics of discussion are kinematics, laws of motion, and conservation laws. Lecture topics supported by a lab component. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**PHYS 202 Physics with Calculus II****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: PHYS 201 (grade of C or higher) and MATH 140****Course Fees: C, H**

This is a calculus based course and a continuation of Physics with Calculus I. This course provides the students an exposure to the basic concepts in electricity, magnetism, light, and modern physics. Principles of electrostatics, magnetic induction, geometric and wave optics, and special theory of relativity are among the topics discussed in this course. Lecture topics supported by a lab component. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**PHYS 203 Physics with Calculus III****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: PHYS 202****Course Fees: C, H**

This is a calculus based course and a continuation of Physics with Calculus II. The fundamentals of wave motion, fluid mechanics, light phenomena and relativistic mechanics are studied. Lecture topics supported by a lab component. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**PHYS 241 Forensic Science I****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: CRJ majors; CRIM 101; ENGL 060 and MATH 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. General Education Category: Science – Scientific Knowledge & Reasoning (SKR)

**PHYS 242 Forensic Science II****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: PHYS 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.

## Radiography

**RADT 100 Radiologic Theory/Clinical Remediation**  
2 Lecture Hours, 2 Credits

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

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

**RADT 101 Introduction to Radiologic Science**  
3 Lecture Hours, 3 Credits

**Corequisites:** RADT 104, RADT 103, RADT 102, BI 106

Students are oriented to the organization of hospitals and are introduced to the role of the radiographer within the organizational structure. The course includes an introduction to medical terminology, the history of Radiography, professional ethics, legal responsibilities, and Radiography professionalism. Provides basic concepts of Patient Care. Routine and emergency patient procedures and infection control will be described. The role of the radiographer in patient education will be identified. The role of human diversity in understanding patients and personnel is discussed.

**RADT 102 Radiographic Procedures I**  
2 Lecture Hours, 3 Lab Hours, 3 Credits

**Corequisites:** RADT 101, RADT 103, RADT 104, BI 106

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

**RADT 103 Clinical Practicum and Image Evaluation I**  
90 Clinical Hours, 2 Credits

**Corequisites:** RADT 101, RADT 102, RADT 104, BI 106

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

**RADT 104 Radiographic Exposure I**  
2 Lecture Hours, 2 Credits

**Corequisites:** RADT 101, RADT 102, RADT 103, BI 106

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

**RADT 106 Radiographic Exposure II**  
2 Lecture Hours, 2 Credits

**Prerequisites:** RADT 101, RADT 102, RADT 103, RADT 104, BI 106

**Corequisites:** RADT 107, RADT 110, RADT 121, BI 107

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

**RADT 107 Radiographic Procedures II**  
2 Lecture Hours, 3 Lab Hours, 3 Credits

**Prerequisites:** RADT 101, RADT 102, RADT 103, RADT 104, BI 106

**Corequisites:** RADT 106, RADT 110, RADT 121, BI 107

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

**RADT 110 Clinical Practicum & Image Evaluation II**  
90 Clinical Hours, 2 Credits

**Prerequisites:** RADT 101, RADT 102, RADT 103, RADT 104, BI 106

**Corequisites:** RADT 106, RADT 107, RADT 121, BI 107

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

**RADT 111 Clinical Practicum & Image Evaluation III**  
90 Clinical Hours, 2 Credits

**Prerequisites:** RADT 106, RADT 107, RADT 110, RADT 121, BI 107

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

**RADT 121 Radiation Biology and Protection**  
3 Lecture Hours, 3 Credits

**Prerequisites:** RADT 101, RADT 102, RADT 103, RADT 104, BI 106

**Corequisites:** RADT 106, RADT 107, RADT 110, BI 107

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

**RADT 200 Clinical Practicum & Image Evaluation IV**  
90 Clinical Hours, 2 Credits

**Prerequisites:** RADT 111

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

**RADT 201 Radiographic Procedures III**  
2 Lecture Hours, 3 Lab Hours, 3 Credits

**Prerequisites:** RADT 200

**Corequisites:** RADT 202, RADT 220

The course content will focus on the projections and positioning used for radiography of the cranium. Laboratory sessions are designed to demonstrate the basic positions and technical factors for procedures as they are described in lectures and audiovisuals.

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

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

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

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

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

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

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

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

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

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

## Radio, Television, and Film

**RTVF 201 Foundations Media Production****3 Lecture Hours, 2 Studio Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**RTVF 205 TV History and Appreciation****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

**RTVF 270 Film History and Appreciation****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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

**RTVF 275 Applied Media Aesthetics****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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.

## Religion

**RELG 101 Perspectives on Religion****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

Explains the functions of religion and describes the fundamental nature of diverse religious systems. Specific topics considered include sacredness, symbolization, myth, evil and salvation. General Education Category: Humanities – Humanistic Perspective (HUP)

**RELG 102 World Religions****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

Presents an intro to the major religions of the world. Utilizing both a description and interpretative approach, the origin and historical development of each religion is examined with particular attention given to the impact of beliefs and practices in the daily life of the ordinary believer. The survey includes Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity, and Islam. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

**RELG 103 Introduction to Asian Religions****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 101 or ENGL 101E**

Introduction to the major Asian religious, philosophical, and cultural traditions (Hinduism, Buddhism, Confucianism, Taoism, Shinto) with emphasis on the cultural roots of each religious tradition, the analysis of its principal teachings and practices, and the major cultural expressions. The survey includes Hinduism, Buddhism, Confucianism, Daoism and Shinto. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

**Science****SCIN 105 Introduction to Experimentation****1 Lecture Hour, 1 Credit****Prerequisite: Permission**

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.

**SCIN 110 Women in STEM Seminar****1 Lecture Hour, 1 Credit****Prerequisite: ENGL 060 and permission**

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.

**SCIN 115 Honors Research****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.

**SCIN 201 Honors Research****3 Lecture Hours, 3 Lab Hours, 4 Credits****Prerequisites: BIOL 102 OR BIOL 106; CHEM 111; and a minimum GPA of 3.5**

This course is designed to provide STEM majors with practical experience while working for 10 hours/week at a field location. The course is designed for students who aspire to gain career-related experience while completing their degree. This course will have an academic experience and a supervised work experience.

**Sociology****SOCI 101 Introduction to Sociology****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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. General Education Category: Social Sciences – Society and Human Behavior (SHB), Global and Cultural Awareness (GCA)

**SOCI 102 Sociology of the Family****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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. General Education Category: Social Sciences – Society and Human Behavior (SHB), Global and Cultural Awareness (GCA)

**SOCI 104 Social Problems****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

The identification and analysis of major societal problems such as population growth and urbanization, crime and delinquency, and social conflict. Students must successfully test into college-level English prior to registering for this course. General Education Category: Social Sciences – Society and Human Behavior (SHB), Global and Cultural Awareness (GCA)

**SOCI 130 Society, Ethics, and Technology****3 Lecture Hours, 3 Credits****Prerequisites: ENGL 060 or ENGL 100**

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. General Education Category: Social Sciences – Society and Human Behavior (SHB)

**SOCI 160 Social Work & Social Welfare****3 Lecture Hours, 3 Credits****Prerequisites: SOCI 101 and SOCI 217**

This course provides an introduction to the social work profession and social welfare system. The student will explore the social welfare system, past and present to understand the social workers role and function.

**SOCI 203 Sociology of Education****3 Lecture Hours, 3 Credits****Prerequisites: SOCI 101**

This course examines the relationship between education and society. The structure, conflict and control of the educational system is a major topic of discussion. Sociological paradigms are used to facilitate understanding of the process of education.

**SOC 205 Introduction to Gerontology****3 Lecture Hours, 3 Credits****Prerequisites: SOCI 101**

A survey of the social, psychological, and physiological issues associated with the aging process in the United States.

**SOCI 207 Social Minorities and Intergroup Relations**

**3 Lecture Hours, 3 Credits**

**Prerequisites: SOCI 101**

This course provides a study of prejudice, discrimination, and the relations between and within different cultural and racial groups in the US. General Education Category: Global and Cultural Awareness (GCA)

**SOCI 212 Social Psychological Counseling**

**3 Lecture Hours, 3 Credits**

**Prerequisites: SOCI 101 and SOCI 217**

An introduction to interviewing and recording techniques within a social service context.

**SOCI 214 Introduction to Sports and Sociology**

**3 Lecture Hours, 3 Credits**

**Prerequisites: SOCI 101**

This course studies the role of sport and the relationships between sport and society, both historically and in contemporary society. This course will examine how sport arises from and can contribute to community; how sport might be a reflection of society; and whether it can shape society sometimes toward a more level playing field.

**SOCI 215 Death & Dying**

**3 Lecture Hours, 3 Credits**

**Prerequisites: SOCI 101**

A sociological and psychological exploration of issues surrounding death and bereavement such as grief, funerals, euthanasia, suicide, and the dying patient.

**SOCI 217 Human Behavior in the Social Environment I**

**3 Lecture Hours, 3 Credits**

**Prerequisites: SOCI 101**

An introduction to biological and social science concepts of human development and social functioning necessary for the practice of social work.

**SOCI 218 Human Behavior in the Social Environment II**

**3 Lecture Hours, 3 Credits**

**Prerequisites: SOCI 217**

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.

**SOCI 220 Sociology of Juvenile Delinquency**

**3 Lecture Hours, 3 Credits**

**Prerequisites: ENGL 060 or ENGL 100**

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.

**SOCI 221 Social Service Field Work I**

**1 Lecture Hours, 90 Co-op Hours, 3 Credits**

**Prerequisites: SOCI 101 and SOCI 104**

Lectures, workshops, and field work experiences in a community agency under the supervision of a trained practitioner. It is suggested that students find a placement for Field work (90 hours) prior to the course starting for the semester the student is registered.

**SOCI 222 Alcohol & Drug Field Work**

**1 Lecture Hours, 90 Co-op Hours, 3 Credits**

**Prerequisites: SOCI 101 and PSYC 200**

The field instruction is designed to give the student an overall understanding of social work practice. Students are assigned to various alcohol and drug social service agencies. It is suggested that students find a placement for Field Work (90 hours) prior to the course starting for the semester the student is registered.

**SOCI 225 Addictions Counseling**

**3 Lecture Hours, 3 Credits**

**Prerequisites: PSYC 200 and SOCI 212**

Students will be introduced to the techniques and approaches of addiction counseling that are grounded in research. This course includes a comprehensive and detailed study of application both in documentation and treatment of the 12 core functions. Emphasis will be on preparation for on-site practice and for eventual state and national licensure and certification. Students will recognize some core ethical dilemmas and general ways to approach them and develop approaches on working in difficult systems and how one's own model of addiction and understanding of influences impact the view of the addicted client.

**SOCI 226 Addictions Recovery**

**3 Lecture Hours, 3 Credits**

**Prerequisites: \_ PSYC 200, SOCI 212**

Students will examine the process of recovery and learn how to reduce the risk of relapse among clients with substance abuse. Students will learn about clinical strategies and tools to use in individual, group or family counseling sessions.

**SOCI 227 Core Function, Global Criteria, & Case Presentations**

**3 Lecture Hours, 3 Credits**

**Prerequisites: PSYC 200; Corequisite: PSYC 205**

Core Functions, Global Criteria & Case Presentation Students will examine the requirements the counselor considers in a variety of factors before deciding whether or not to admit the potential client for treatment. It is imperative that the counselor use appropriate diagnostic criteria to determine whether the applicant's alcohol or drug use constitutes abuse. All counselors must be able to describe the criteria they use and demonstrate their competence by presenting specific examples of how the use of alcohol and other drugs has become dysfunctional to a particular client. The determination of a particular client's appropriateness for a particular program requires the counselor's judgment and skill and is influenced by the program's environment and modality (i.e. inpatient, outpatient, residential, pharmacotherapy, detoxification, or day care). Important factors include the nature of the substance abuse, the physical condition of the client, the psychological functioning of the client, outside support/resources, previous treatment efforts, motivation, and the philosophy of the program. The eligibility criteria are generally determined by focus, target population, and funding requirements of the counselor's program or agency. Many of the criteria are easily ascertained. These may include the client's age, gender, place of residence, legal status, veteran status, income level, and the referral source. Allusion to following agency policy is a minimally acceptable statement. If the client is found ineligible or inappropriate for the program, the counselor should be able to suggest an alternative.

**SOCI 231 Social Service Field Work II**

**1 Lecture Hours, 90 Co-op Hours, 3 Credits**

**Prerequisites: SOCI 221**

Continues the field work experience of SOCI 221. It is suggested that students find a placement for Field Work (90 hours) prior to the course starting for the semester the student is registered.

## Speech

### **SPEH 101** *Effective Speech*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

This course is designed to help students better their capabilities as speakers through the study and practice of the principles of public speaking. The course will address the theory of effective public speaking, display examples of good techniques of speech preparation and explain the characteristics that must be a part of the effective speaker. General Education Category: Communication – Written and Oral Communication (WOC)

## Spanish

### **SPAN 101** *Elementary Spanish I*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

Offers students with no previous knowledge of Spanish an introduction to the Spanish language and culture with an emphasis on oral proficiency in the language. The audio-visual program "Destinos" is used in all Spanish courses. Introductory speaking, listening, reading, and writing skills as well as basic grammatical structures of the Spanish language will be introduced. General Education Category: Humanities – Humanistic Perspective (HUP)

### **SPAN 102** *Elementary Spanish II*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** SPAN 101

Offers students a continuation of the development of Spanish language skills covered in SPAN 101. Additional cultural information will be provided. Continued oral proficiency in Spanish will be emphasized. General Education Category: Humanities – Humanistic Perspective (HUP)

### **SPAN 120** *Spanish for Law Enforcement*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

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.

### **SPAN 201** *Intermediate Spanish I*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** SPAN 102

Offers the development of greater facility in listening, speaking, reading, and writing skills in the Spanish language. More complex grammatical structures will be introduced. Spanish culture will be emphasized. General Education Category: Humanities – Humanistic Perspective (HUP), General Education Category: Global and Cultural Awareness (GCA)

### **SPAN 202** *Intermediate Spanish II*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** SPAN 201

Offers a continuation of more complex Spanish language skills than were presented in SPAN 201. Additional cultural information will be provided. Further development of oral proficiency in the Spanish language will be emphasized. General Education Category: Humanities – Humanistic Perspective (HUP). General Education Category: Global and Cultural Awareness (GCA)

## Theatre

### **THEA 201** *Theater History*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

Designed to introduce the student to the origin, history, and various styles of dramatic art, including different cultural types of theatre. Stress is given to a greater appreciation for theatre production when all the elements involved are presented in detail. General Education Category: Humanities – Broad Based (HUP)

### **THEA 101** *Theatre Appreciation*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** ENGL 060 or ENGL 100

Designed to introduce the student to the origin, history, and various styles of dramatic art, including different cultural types of theatre. Stress is given to a greater appreciation for theatre production when all the elements involved are presented in detail. General Education Category: Humanities – Broad Based (HUP)

## Veterinary Technology

### **VETT 101** *Introduction to Veterinary Technology*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** 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-requisite or Corequisite:** 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, and 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 portion 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

Building on the concepts of VETT 105 Anatomy and Physiology of Domestic Animals I, VETT 106 focuses on the cardiovascular, respiratory, digestive, urinary, reproductive, and immune systems. The laboratory portion will correlate with lecture material and will help to visualize these concepts. Organ systems include the cardiovascular, respiratory, digestive, urinary, reproductive, and immune system.

### **VETT 110** *Veterinary Pharmacology*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** MATH 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, 90 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, 90 Clinical Hours, 4 Credits**

**Prerequisites: 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, and 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 course 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 portion is for the reinforcement and application of laboratory procedures and principles taught.

**VETT 211 Veterinary Laboratory Procedures II**

**3 Lecture Hours, 3 Lab Hours, 4 Credits**

**Prerequisite: VETT 210**

This course 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 portion 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, 90 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**

**Pre or Corequisite: 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 patient 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 wellbeing of the patient and efficacy/safety of the medication or anesthetic procedure.

**VETT 235 Veterinary Emergency Medicine**

**3 Lecture Hours, 3 Credits**

**Prerequisites: 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**

**3 Lecture Hours, 3 Credits**

**Pre or Corequisites: VETT 211, VETT 225, VETT 230, VETT 235**

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 Technology

### **WIND 101 Offshore Safety and Survival**

**3 Lecture Hours, 3 Lab Hours, 4 Credits**

**Prerequisites: None**

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**

**Prerequisites: WIND 110**

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**

**Prerequisites: 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, and 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**

**Prerequisites: 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**

**Prerequisites: 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**

**Prerequisites: 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.

<b>STEP 1</b>	<b>STEP 2</b>	<b>RCSJ Campus</b>
Start Here at RCSJ Associate Degree Major	End Here at RU 3+1 Bachelor's Degree Major	

### BEHAVIORAL SCIENCE AND LAW & JUSTICE DIVISION

Criminal Justice (A.S.)	Law and Justice Studies (B.A.)	
Emergency Management Option (A.S.)	Disaster Preparedness & Emergency Management (B.A.)	
Psychology (A.A.)	Psychology (B.A.)	

### BUSINESS STUDIES DIVISION

Business Administration (A.S.)	Business Administration: Global Business & Leadership (B.S.)	
Computer Information Systems (A.S.) or Business Administration (A.S.)	Data Analytics (B.S.)	

### COMMUNICATIONS & CREATIVE & PERFORMING ARTS DIVISION

Arts and Sciences Communications Option (A.A.)	Applied Professional Communications (B.A.)	
Arts and Sciences: Radio/Television/Film Option (A.A.)	Radio/Television/Film (B.A.)	

### EDUCATION & HUMANITIES DIVISION

Education (A.S.)	Inclusive Education (B.A.)	
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### NURSING AND HEALTH PROFESSIONS DIVISION

Exercise Science (A.S.)	Fitness Management (B.A.)	
Nursing Generic Program (A.A.S.) or Nursing LPN to RN, (A.A.S.)	Nursing (B.S.)	

### SCIENCE, TECHNOLOGY, ENGINEERING & MATH DIVISION

Cybersecurity (A.S.)	Computing and Informatics (B.A.)	
Computer Science (A.S.)	Data Analytics (B.S.)	

#### Key:

- A.A. – Associate of Arts
  - A.S – Associate of Science
  - A.A.S. – Associate of Applied Science
  - B.A. – Bachelor of Arts
  - B.S. – Bachelor of Science
- Cumberland Campus
  - Gloucester Campus

## Business/Global Business & Leadership

### **BUSN 300** *Applied Organizational Behavior*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** *Students who have graduated from AS Business Administration*

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.

### **BUSN 304** *Issues in Business*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** *Students who have graduated from AS Business Administration*

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.

### **BUSN 308** *Applied Human Resource Management II*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** *Students who have graduated from AS Business Administration*

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)

### **BUSN 310** *Business Logistics*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** *Students who have graduated from AS Business Administration*

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.

## Computer Information Systems/Data Analytics

### **CISM 300** *Applied Database Technologies*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** *Enrollment into the 3+1 Program/Advanced Studies Degree; completion of AS in Business Administration or AS in Computer Information Systems or AS in 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.

## Communication/Applied Professional Communications

### **COMM 300** *Publication, Layout, and Design*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** *AA Arts & Sciences Communications Options; Enrollment in 3+1 Program*

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.

### **COMM 305** *Writing, Research, and Technology*

**3 Lecture Hours, 3 Credits:**

**Prerequisites:** *AA Arts & Sciences Communications Options; Enrollment in 3+1 Program*

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.

### **COMM 324** *Introduction to New Media*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** *AA Arts & Sciences Communications Options; Enrollment in 3+1 Program*

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.

### **COMM 334** *Digital Media Techniques*

**1 Lecture, 4 Studio hours, 3 Credits**

**Prerequisites:** *AA Arts & Sciences Communications Options; Enrollment in 3+1 Program*

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.

## Criminal Justice/Law & Justice Studies

### **CRIM 301** *Drugs and Crime in America*

**3 Lecture Hours, 3 Credits**

**Prerequisites:** *ENGL 102*

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.

**CRIM 305** *Counseling and Guidance of the Offender***3 Lecture Hours, 3 Credits****Prerequisites:** ENGL 102

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.

**CRIM 308** *Theories of Crime and Criminality***3 Lecture Hours, 3 Credits****Prerequisites:** ENGL 102

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.

## Cyber Security/Computing & Informatics

**CYBR 337** *Applied Database Technology***3 Lecture Hours, 3 Credits****Prerequisites:** AS in Cybersecurity; Enrollment into the 3+1 Program

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.

## Data Analytics

**DATA 301** *Research Methods and Ethical Issues in Data Analysis***3 Lecture Hours, 3 Credits****Prerequisite:** MATH 103 and Enrollment in Advanced Studies 3+1 Program

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.

## Education/Inclusive Education

**EDUC 301** *Literacy Pedagogy I***3 Lecture Hours, 3 Credits****Prerequisites:** A.S. Education; Enrollment into 3+1 Program

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.

**EDUC 302** *Literacy Pedagogy II***2 Lecture Hours, 2 Credits****Prerequisites:** EDUC 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.

**EDUC 305** *Current Policy & Practice in ESL and Bilingual Education***3 Lecture Hours, 3 Credits****Prerequisites:** A.S. in Education; Enrollment into the 3+1 Program

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.

**EDUC 310** *Differentiating Instruction in the Inclusive Classroom***2 Lecture Hours, 2 Credits****Prerequisites:** A.S. in Education; Enrollment into the 3+1 Program

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.

**EDUC 315** *Working with Families and Communities***3 Lecture Hours, 3 Credits****Prerequisites:** A.S. in Education; Enrollment into the 3+1 Program

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.

**EDUC 318** *Positive Behavior Support Systems***2 Lecture Hours, 2 Credits****Prerequisites:** A.S. in Education; Enrollment into the 3+1 Program

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 schoolwide 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.

**EDUC 320** *Clinical Experience I in Inclusive Education***1 Lecture Hours, 1 Credits****Prerequisites:** A.S. in Education; Enrollment into the 3+1 Program

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 EDUC 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).

**EDUC 323 Assessment in Special and Inclusive Education****3 Lecture Hours, 3 Credits****Prerequisites:** A.S. in Education; Enrollment into the 3+1 Program

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.

**EDUC 327 Clinical Experience II in Inclusive Education****1 Lecture Hours, 1 Credits****Prerequisites:** A.S. in Education; Enrollment into the 3+1 Program

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).

**EDUC 330 Trauma Informed Practices to Promote Social & Emotional Development****3 Lecture Hours, 3 Credits****Prerequisites:** A.S. in Education; Enrollment into the 3+1 Program

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.

**EDUC 335 Social Studies Methods for the Inclusive Classroom****3 Lecture Hours, 3 Credits****Prerequisites:** A.S. in Education; Enrollment into the 3+1 Program

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.

**EDUC 340 Science Inquiry & Methods for the Inclusive Classroom****3 Lecture Hours, 3 Credits****Prerequisites:** A.S. in Education; Enrollment into the 3+1 Program

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.

**EDUC 345 Mathematics Strategies in the Inclusive Classroom****2 Lecture Hours, 2 Credits****Prerequisites:** A.S. in Education; Enrollment into the 3+1 Program

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 Corequisite 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 & Disaster Preparedness

**EMGM 205 Global Catastrophes****3 Lecture Hours, 3 Credits****Prerequisites:** EMGM 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

**EMGM 305 Mitigation and Response****3 Lecture Hours, 3 Credits****Prerequisites:** EMGM 201; A.S. in DPEM – CRJ, EMG Option

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.

**EMGM 309 Emergency Operations and Business Continuity****3 Lecture Hours, 3 Credits****Prerequisites:** EMGM 201; A.S. in DPEM – CRJ, EMG Option

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/Fitness Management

### **EXSI 300 Kinesiology**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** C or higher in BIOL 105 and BIOL 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.

### **EXSI 305 Exercise Physiology with Laboratory**

**3 Lecture Hours, 2 Lab Hours, 4 Credits**

**Prerequisites:** C or higher in BIOL 105 and BIOL 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:** Acceptance into the 3+1 program; Graduation from an RCSJ Nursing Program; 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:** Acceptance into the 3+1 program; Graduation from an RCSJ Nursing Program; 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:** Acceptance into the 3+1 program; Graduation from an RCSJ Nursing Program; 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

### **PSYC 300 Introduction to Sport & Exercise Psychology**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 101; Acceptance into the 3+1 Program; An RCSJ associate degree.

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.

### **PSYC 305 Psychology of Scientific Thinking**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** Acceptance into the 3+1 Program; An RCSJ associate degree.

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.

### **PSYC 306 Statistics In Psychology**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** Acceptance into the 3+1 Program; An RCSJ associate degree.

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

### **PSYC 308 Social Psychology of Sport**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** PSYC 101 and PSYC 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.

### **PSYC 310 Psychology as a Profession and Practice**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** Acceptance into the 3+1 Program; An RCSJ associate degree.

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.

### **PSYC 315 Research Methods in Psychology**

**3 Lecture Hours, 3 Credits**

**Prerequisites:** Acceptance into the 3+1 Program; An RCSJ associate degree.

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.

## Radio/Television/Film

### ***RTVF 317 The Movie Industry Syllabus***

**3 Lecture Hours, 3 Credits**

**Prerequisites:** *RTVF 201, RTVF 205, RTVF 270, and RTVF 275;*

**Enrollment into the 3+1 Program**

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.

### ***RTVF 322 Television Production I***

**3 Lecture Hours, 3 Credits**

**Prerequisites:** *RTVF 201, RTVF 205, RTVF 270, and RTVF 275;*

**Enrollment into the 3+1 Program**

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.

### ***RTVF 370 Film Production I***

**3 Lecture Hours, 3 Credits**

**Prerequisites:** *RTVF 201, RTVF 205, RTVF 270, and RTVF 275;*

**Enrollment into the 3+1 Program**

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.

### ***RTVF 393 Screenwriting I***

**3 Lecture Hours, 3 Credits**

**Prerequisites:** *RTVF 201, RTVF 205, RTVF 270, and RTVF 275;*

**Enrollment into the 3+1 Program**

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



1. Luciano Center (LUC)  
• *Business Studies Division*

2. Arpino Education and Humanities Center (ARP)  
• *Computer Labs*  
• *Education & Humanities Division*  
• *ESL*  
• *Military Services*  
• *Testing and Tutoring*

3. Guaracini Center (GUAR)  
• *Adult Education*  
• *Health Professions*  
• *Luciano Theatre*

4. Brown University Center (UNIV)  
• *Behavioral Science & Justice Studies*

5. Wheaton Building (WHT)  
• *Navone Healthcare*  
• *Nursing & Health Professions Division*

6. Mechatronics Innovation Learning Lab (MILL)

7. Alampi Science Building (SCI)  
• *STEM Division*

8. Library (LIB)  
• *Computer Lab & IT Support*

9. Network Operations Center

10. Administration Building (ADM)

11. Student and Enrollment Services Center (SESC)  
• *Admissions/Registration*  
• *Advising*  
• *Bookstore*  
• *Bursar/Financial Aid*  
• *Center for Wellness and Support*  
• *Cunningham Gymnasium*  
• *Food Pantry*  
• *One Stop*  
• *Safety & Security*  
• *Together Cafe*

12. Central Plant - Shipping and Receiving

13. Pole Barn

14. Rowan Medicine

16. Center for Workforce & Economic Development

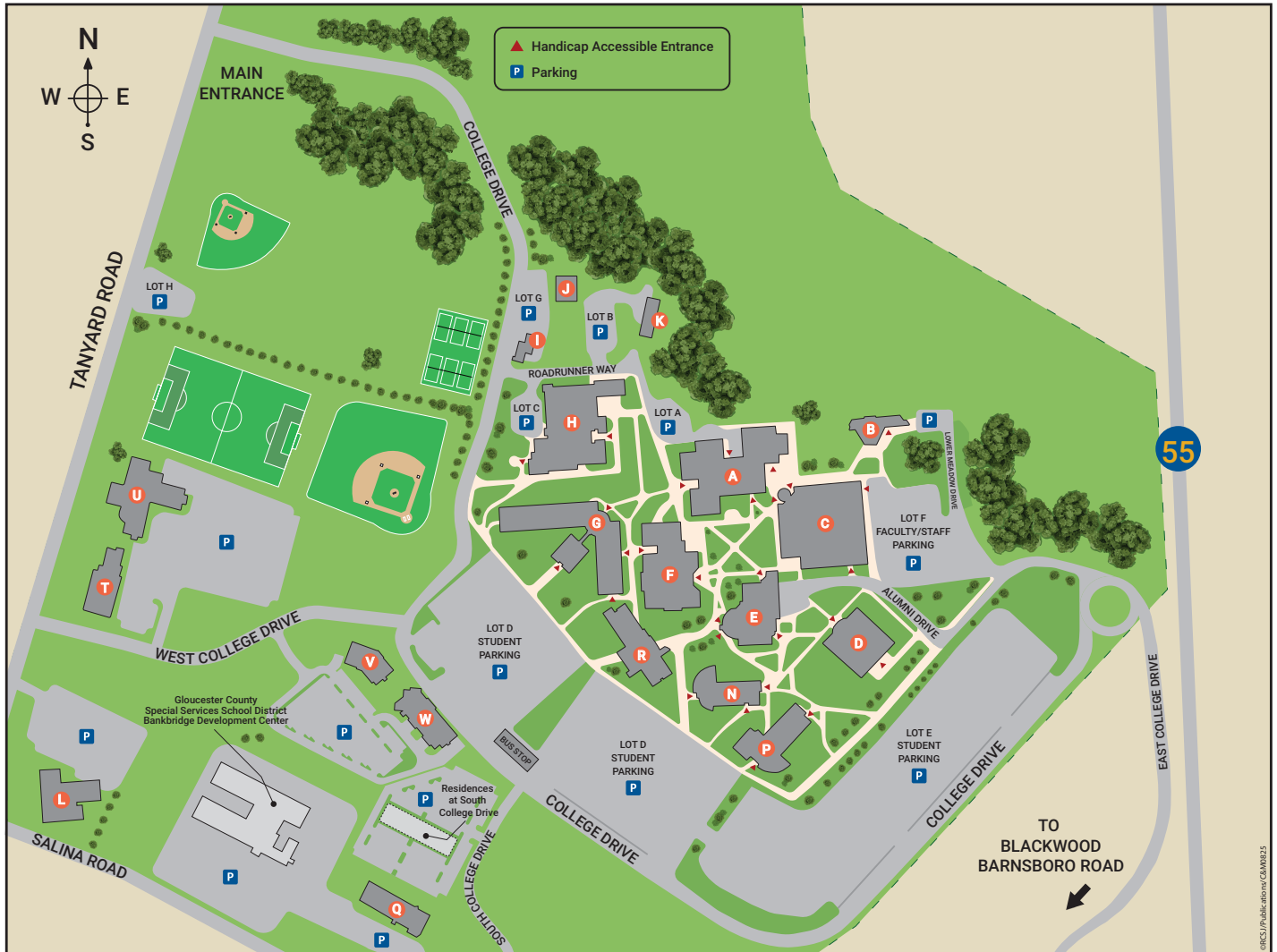
#### Off-Campus Sites

- Arts & Innovation Center (MAIC)  
321 N. High St., Millville, NJ
- Rowan College Prep - CCTEC  
3400 College Dr., Vineland, NJ

# Gloucester Campus Map

1400 Tanyard Road, Sewell, NJ 08080

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- A. Eugene J. McCaffrey College Center (CC)
  - Center for Wellness and Support
  - Food Pantry
  - Roadrunner Cafe
  - Security
- B. Medical Arts Center (MAC)
- C. Education and Humanities Center (EHC)
- D. Rastelli Business & Corporate Center (BAC)
- E. Student Services (SS)
  - Advising
  - Testing Center
- F. Library - Learning Commons (LC)
  - Academic Support Center
  - College Store
  - Together Cafe Too

- G. Scott Hall - STEM Center (SCOTT)
- H. Physical Education Center (PEC)
  - Fitness Center/Gymnasium
  - Law and Justice Education Center (LJC)
  - Police Academy
  - Real Time Crime Center
- I. Safety & Security
  - Sheriff's Office
  - Welcome Center (WELC)
- J. Gloucester County Allied Health Center
- K. Facilities
- L. Career and Technical Education Center
- N. Acenda Behavioral Sciences Center (BSC)

- P. Inspira Nursing & Health Professions Center (NAH)
  - Q. Stephen M. Sweeney Center for Special Services
  - R. Math & Engineering Center (MEC)
  - T. Economic Development Center
  - U. Rowan Medicine
    - Together Cafe
  - V. Inspira Health Sciences Center (HS)
  - W. GCIT Advanced Manufacturing and Applied Science (AMAS)
- Off-Campus Site**
- Rowan College Prep - GCIT  
1360 Tanyard Rd., Sewell, NJ



**GLOUCESTER CAMPUS**

1400 Tanyard Road  
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**CUMBERLAND CAMPUS**

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