



Transfer Programs

Program Description

This transfer program is designed for students who have a strong interest in biology and who plan to major in biology at a four-year college or university.

Program Goals

- To prepare students for entry-level positions in science related fields that require an associate in science degree such as: research assistant in pharmaceutical, biomedical, or academic research laboratories and laboratory technician.
- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for the biological sciences.
- To ensure transferability of course work to a baccalaureate program in biology or science education.
- To prepare students to enter pre-professional programs for careers such as medicine, dentistry or veterinary medicine.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Explain the principle of evolution as the major unifying theme of biology.
2. Explain cellular structure and physiology.
3. Explain the basic principles of molecular biology and genetics.
4. Apply the scientific method to conduct experiments.
5. Analyze cells and tissues using a microscope.
6. Utilize primary and secondary sources in the scientific literature to obtain biological information.

Employment Opportunities

- Researcher in pharmaceutical and biomedical laboratories
- Laboratory technician
- Preparation for pre-professional careers such as medicine, dentistry or veterinary medicine
- Education

Contact Person

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Highlights

Graduates have successfully transferred to Rutgers University, Cornell University, Richard Stockton College of New Jersey, Thomas Jefferson University and other four-year institutions.

LIBERAL ARTS AND SCIENCE Biology Option

Degree: Associate in Science
College Code: BIO.AS

Code	Course	Credits
First Year/First Semester		
BIO-111	Biology I - Science	4
CHM-111	Chemistry I - Science	4
MTH-140	Calculus I	4
ENG-101	English Composition I	3
HIS-101	World Civilization I	3
		18
Second Semester		
BIO-112	Biology II - Science	4
CHM-112	Chemistry II - Science	4
MTH-150	Calculus II or	4
MTH-134	Biostatistics	4
ENG-102	English Composition II	3
.....	Social Science General Education Elective ^{1,4}	3
		18
Second Year/First Semester		
PHY-101	Physics I	4
BIO-2....	200 Level Biology Laboratory Science Course ^{1,3}	4
.....	Laboratory Science General Education Elective	4
.....	Humanities General Education Elective ¹	3
		15
Second Semester		
PHY-102	Physics II	4
.....	Laboratory Science General Education Elective ^{1,2,3}	4
.....	Computer Information Systems Elective	3
.....	Free Elective ^{1,4}	3
HPE	Health & Exercise Science Elective	1
		15
Total Minimum Credits		66

¹ Students should choose electives based on the requirements of the transfer institution.

² Students who are planning to enter professional schools for degrees in Medicine, Chiropractic Medicine, Veterinary Medicine, Pharmacy, Dentistry, Physical Therapy or Physician's Assistant Programs should choose CHM-221 (Organic Chemistry I) and CHM-222 (Organic Chemistry II) as Laboratory Science Electives

³ All students should meet with an advisor from the Biology department to choose Laboratory Science General Education Electives

⁴ Secondary education majors should take Basic Psychology (PSY-101) for the social science general education elective and either Educational Psychology (PSY-103) or Historical Trends in American Education (EDU-101) for the free elective.

Program Description

The curriculum leads to the bachelor's degree in business administration. Specialized fields in upper division studies include accounting, business administration, economics, finance, human resource management, marketing, computer studies, and other business-related professions.

Program Goals

- To provide students with a foundation in general education required for transfer to a baccalaureate program.
- To assure that students understand the fundamentals of financial reporting and analyze, and use financial information when making business decisions.
- To prepare students to use information technology to make successful management and business decisions.
- To provide students with a core base of studies including accounting, law, management and business.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Explain the fundamentals of financial reporting and analysis.
2. Apply financial data to making business decisions.
3. Research and communicate business information using information technology.
4. Describe the legal implications of business descriptions.

Recommendations

- Students should contact transfer institution before enrolling in the program.
- Students should enlist the assistance of academic advisors in choosing electives.
- This program is designed for the student who wishes to transfer to a four-year college or university.

Contact Persons

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Highlights

The program prepares students who are interested in Business to transfer to a four-year institution. NJ Transfer is a web-based data information system designed to provide a seamless transfer from New Jersey community colleges to New Jersey four-year colleges and universities. Visit the Web site at www.njtransfer.org.

LIBERAL ARTS AND SCIENCE Business Administration Option

Degree: Associate in Science
College Code: BUS.AS

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
MGT-101	Introduction to Business	3
ACC-104	Financial Accounting	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
MTH ...	Mathematics General Education Elective ¹	3/4
HPE	Health & Exercise Science Elective	1
		16/17
Second Semester		
ENG-102	English Composition II	3
ACC-105	Managerial Accounting	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
MGT-102	Introduction to Management	3
.....	Social Science General Education Elective	3
.....	Science General Education Elective ¹ or	
MTH....	Mathematics General Education Elective ¹	3/4
		18/19
Second Year/First Semester		
LAW-101	Legal Environment/Business Law I	3
ECO-101	Macroeconomics	3
.....	Humanities: Literature or Philosophy or	
.....	Arts General Education Elective	3
.....	General Education Elective	3/4
.....	Computer Information Systems Elective ¹	3
HPE	Health & Exercise Science Elective	1
		16/17
Second Semester		
ECO-102	Microeconomics	3
.....	Social Science General Education Elective	3
.....	Humanities: Literature General Education Elective ¹	3
.....	General Education Elective	3/4
.....	Business Elective ²	3
		15/16
Total Minimum Credits		65

¹ Electives should be selected with the assistance of an academic advisor or counselor.

² Business Law II (LAW-102) OR Principles of Marketing (MKT-101)

Program Description

The Business Administration Option to the Liberal Arts and Sciences program is designed especially for students who intend to continue their studies toward a baccalaureate degree in computer programming or computer information systems with a minimum of transfer loss.

Program Goals

- To provide students with the business, accounting, programming, and systems knowledge to operate effectively in a business computing environment.
- To qualify students for entry-level employment in the fields of computer hardware, programming, and software applications with business, education, library science, and public and private industry.
- To instill in the students a commitment to lifelong learning which engenders the desire to transfer credits baccalaureate program in business administration.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Execute the fundamental skills of business, programming, system software and application software in a business computing environment
2. Explain the basic concepts of information technology used in the Information Systems field
3. Write basic level computer programs using applied logic skills in one programming language

Employment Opportunities

An information systems major can lead to careers in hardware, software, algorithms, databases, tactics, programming, and man-machine interfaces used to create, capture, organize, modify, store, protect, access, and distribute information for use.

- Business
- Education
- Government
- Industry
- Library
- Public and private sectors
- Research

Contact Persons

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LIBERAL ARTS AND SCIENCE Business Administration Option: Information Systems Track

Degree: Associate in Science
College Code: INF.AS

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
CSC-101	Computer Literacy or CIS-206 Advanced Computer Concepts and Applications ³	3
ACC-104	Financial Accounting	3
HIS-111	Western Civilization I or HIS-101 World Civilization I	3
OST-110	Microcomputer Keyboarding	1
MTH.....	Mathematics General Education Elective ¹	3/4
		16/17
Second Semester		
ENG-102	English Composition II	3
ACC-105	Managerial Accounting	3
HIS-112	Western Civilization II or HIS-102 World Civilization II or HIS-103 World Civilization III	3
CSC-111	Introduction to Programming or CSC-121 Structured Programming C++ or CSC-161 Introduction to Java	3/4
MTH.....	Mathematics General Education Elective ¹	3/4
		15/16/17
Second Year/First Semester		
CSC-213	Visual Basic I ² or CSC-122 Computer Science I ² or CSC-262 Advanced Java ²	3/4
ECO-101	Macroeconomics	3
.....	Language General Education Elective or Literature General Education Elective	3
.....	Literature General Education Elective or Philosophy General Education Elective or Arts General Education Elective	3
.....	Diversity: Social Science General Education Elective	3
HPE.....	Health & Exercise Science Elective	1
		16/17
Second Semester		
CSC-214	Visual Basic II ² or CSC-223 Computer Science II ² or CSC-263 Web Component Development in Java ²	3/4
ECO-102	Microeconomics	3
.....	Laboratory Science General Education Elective	4
.....	Social Science General Education Elective	3
.....	Language General Education Elective or Literature General Education Elective	3
HPE.....	Health & Exercise Science Elective	1
		17/18
Total Minimum Credits		64

¹ Choose from the following Math electives:

- MTH-125 College Algebra and Trigonometry
- MTH-129 Discrete Mathematics-corequisite for Computer Science II (CSC-223)
- MTH-122 Applied Calculus
- MTH-140 Calculus I
- MTH-150 Calculus II
- MTH-111 Elements of Statistics I
- MTH-112 Elements of Statistics II

² Prerequisites listed with course descriptions must be met for all programming and math courses. Students should check with transfer institution before selecting Computer Programming and Mathematics courses.

³ Prerequisites should be met for this course.

Program Description

This course of study is designed for students who have a strong interest in chemistry and who plan to work toward a major in chemistry or a related field. Chemistry majors perform laboratory procedures in biotechnological, health care and other related fields. They also enter ancillary fields such as forensic science, engineering and education.

Program Goals

- To prepare graduates for entry-level positions in science related fields that require an associate in science degree such as: laboratory technicians or research assistants in pharmaceutical, biomedical, or academic research laboratories.
- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for chemistry and basic chemistry instrumentation.
- To ensure transferability of course work to a baccalaureate program in chemistry or science education.
- To prepare graduates to enter pre-professional programs in careers such as chemical engineer, laboratory technician, physician's assistant, physician and physical therapist.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Use the scientific method to design and perform experiments in the chemistry laboratory
2. Explain the fundamental concepts of chemistry
3. Analyze data using mathematical and chemical principles
4. Present scientific information in both written and oral formats

Employment Opportunities

- Chemical engineer
- Education
- Laboratory technician
- Physician
- Physical therapist
- Physician's assistant

Contact Person

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LIBERAL ARTS AND SCIENCE Chemistry Option

Degree: Associate in Science
College Code: CHM.AS

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
CHM-111	Chemistry I - Science	4
MTH-140	Calculus I	4
PHY-201	Physics III	4
HIS-101	World Civilization I or	
ENG-271	World Literature I	3
		18
Second Semester		
ENG-102	English Composition II	3
CHM-112	Chemistry II - Science	4
MTH-150	Calculus II	4
PHY-202	Physics IV	4
		15
Second Year/First Semester		
CHM-221	Organic Chemistry I	4
BIO-111	Biology I: Science	4
MTH-210	Calculus III	4
.....	Social Science General Education Elective ¹	3
HPE.....	Health & Exercise Science Elective	1
		16
Second Semester		
CHM-222	Organic Chemistry II	4
BIO-112	Biology II: Science	4
CHM-210	Fundamentals of Biochemistry or	
.....	Any 200-level Biology, Chemistry, or	
	Biotechnology course ²	4
.....	Social Science General Education Elective ¹	3
		15
	Total Minimum Credits	64

¹ Secondary education majors should take Basic Psychology (PSY-101) for one of the electives

² Check with transferring institution.

Recommendations

Preparation for Chemistry (CHM-010) is required for those who have not had high school chemistry. Students should select courses according to the needs of the transferring institution.

Program Description

This program is designed to teach the technology, theory, and process of communication. Students participate in internships at local media operations and businesses.

Program Goals

- To prepare students to become familiar with the history and evolution of American mass media.
- To prepare students to recognize how and why the media operate as they do, and what results they produce.
- To prepare students to develop analytical and critical skills enabling enlightened evaluation of media products.
- To prepare students to demonstrate an understanding of the obvious and the subtle effects of media upon the individual, the society, and the culture.
- To prepare students to study and analyze the principles and theories of communication and apply these principles and theories to different communication situations.
- To prepare students to learn communication terminology and the communication process.
- To prepare students to understand the function of perception of the communication process and its limitations.
- To prepare students to become aware of nonverbal communication and its effect on communication.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Discuss the history and evolution of American mass media.
2. Analyze media products.
3. Explain the effects of media upon the individual, the society and culture.
4. Define communication terminology and apply this to the communication process.

Employment Opportunities

- Advertising
- Editing
- Newspaper journalism
- Radio broadcasting
- Audio Production
- Corporate & industrial telecommunications
- Cable
- Internet
- Research
- TV Broadcasting & producing

Contact Person

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Highlights

Students participate in internships at local radio stations, television stations, and newspapers.

WDBK-FM 91.5

Volunteer to serve in various positions available at the station; programming, music, production, news, sports, public affairs, underwriting & research.

LIBERAL ARTS AND SCIENCE Communications Option

Degree: Associate in Arts
College Code: COM.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
MTH ...	Mathematics General Education Elective	3
.....	Language General Education Elective ¹	3
.....	Social Science General Education Elective	3
HPE	Health & Exercise Science Elective	1
		16
Second Semester		
COM-101	Influence of Mass Media	3
COM-145	Intercultural Communications	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
.....	Language General Education Elective ¹	3
.....	Technology General Education Elective	3
		15
Second Year/First Semester		
ENG-102	English Composition II	3
SPE-102	Public Speaking	3
COM-102	Theory of Communication	3
.....	Laboratory Science General Education Elective ²	4
MTH.....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ²	3/4
		16/17
Second Semester		
COM-103	Introduction to Journalism or	
COM-201	Electronic News Reporting or	3
COM-203	Writing for Electronic Media	
COM-143	Introduction to Electronic Media	3
COM....	Communications Course ³	3
.....	Humanities General Education Elective	
	(not a History or Language course)	3
HPE.....	Social Science General Education Elective	3
		15
	Total Minimum Credits	62

Program Description

This program prepares students for careers in journalism. In addition to offering a general liberal arts and sciences curriculum, the program examines various media and discusses specific techniques used in combining writing and journalism.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for a Photo-Journalism major.
- To ensure transferability of course work to four-year colleges and universities.
- To acquire knowledge and understanding of writing and photography methods used for newspapers and magazines.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Write articles for newspapers and magazines.
2. Take photographs for publication in newspapers and magazines.
3. Layout an article for newspapers or magazines integrating images with the written passage.
4. Define terminology used in photojournalism and apply it to the communication process.

Employment Opportunities

- Magazine photography
- Newspaper photography
- Public relations photography and writing
- Freelance photography
- Wire Services
- Picture agencies
- Book Illustrator
- Internet

Contact Person

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LIBERAL ARTS AND SCIENCE Communications Option: Photo-Journalism Track

Degree: Associate in Arts
 College Code: PHJ.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
PHO-101	Photography I	3
MTH ...	Mathematics General Education Elective	3
.....	Language General Education Elective ¹	3
HPE	Health & Exercise Science Elective	1
		16
Second Semester		
ENG-102	English Composition II	3
COM-145	Intercultural Communication	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	3
HIS-103	World Civilization III	3
.....	Language General Education Elective ¹	3
.....	Social Science General Education Elective	3
		15
Second Year/First Semester		
COM-101	Influence of Mass Media	3
COM-103	Introduction to Journalism or	
COM-201	Electronic News Reporting or	
COM-203	Writing for Electronic Media	3
.....	Technology General Education Elective	3
.....	Humanities General Education Elective	3
	(not a History or Language course)	
.....	Laboratory General Education Science Elective	4
		16
Second Semester		
COM-102	Theory of Communications	3
COM-196	Co-op I: Campus Press Internship	3
SPE-102	Public Speaking	3
MTH.....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ²	3/4
.....	Social Science General Education Elective	3
		15/16
Total Minimum Credits		62

¹ Students must take six credits of one language.

* See individual languages under Course Descriptions for requisites on placement.

² The following laboratory science courses are recommended for non-science majors: BIO-106, BIO-140, CHM-140, PHY-103.

Highlights

- Students participate in internships at local media operations and businesses.
- Students transfer to four-year institutions offering programs in photo-journalism.
- Volunteer to serve as a staff photographer for *The Campus Press*, the campus newspaper, or *Bridges*, the literary publication.

Program Description

This program is designed especially for those students who wish to specialize early or who are already employed in a related occupation.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for a public relations/advertising major.
- To ensure transferability of course work to four-year colleges and universities.
- To enable students to understand the management of relationships between an organization and its public.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Explain the management of relationships between an organization and the public.
2. Discuss the history and evolution of public relations in America.
3. Construct messages designed to communicate to a diverse audience.
4. Define communication terminology and apply this to the public relations process.
5. Conduct content analysis of the media.

Employment Opportunities

- Advertising
- Corporations (employee, media, government, community, and consumer relations)
- Nonprofit organizations and trade associations
- Independent public relations agencies
- Integrated marketing communications
- Governments

Campus Opportunities

Working with student organizations, clubs and some non-profit agencies in the county, students in the public relations course learn how to research, plan and communicate a public relations proposal.

Contact Person

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LIBERAL ARTS AND SCIENCE Communications Option: Public Relations/Advertising Track

Degree: Associate in Arts
College Code: PRA.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
COM-145	Intercultural Communications	3
MTH.....	Mathematics General Education Elective	3
.....	Social Science General Education Elective	3
HPE.....	Health & Exercise Science Elective	1
		16
Second Semester		
ENG-102	English Composition II	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
MTH.....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ²	3/4
.....	Language General Education Elective ¹	3
.....	Social Science General Education Elective	3
		15/16
Second Year/First Semester		
COM-101	Influence of Mass Media	3
COM-104	Introduction to Public Relations	3
.....	Technology General Education Elective	3
.....	Laboratory Science General Education Elective ²	4
.....	Language General Education Elective ¹	3
		16
Second Semester		
MKT-123	Introduction to Promotion	3
COM-103	Introduction to Journalism or	
COM-201	Electronic News Reporting or	
COM-203	Writing for Electronic Media	3
COM-208	New Media Promotions	3
SPE-102	Public Speaking	3
.....	Humanities General Education Elective (not a History or Language Course)	3
		15
	Total Minimum Credits	62

¹ Must take six credits in one language

* See individual languages under Course Descriptions for requisites on placement.

² The following laboratory science courses are recommended for non-science majors:
BIO-106, BIO-140, CHM-140, PHY-103

Highlights

- Students participate in internships at local media operations and businesses.
- Students transfer to four-year institutions.

Program Description

This career-oriented program can transfer to baccalaureate programs in computer-related fields. It uses state-of-the-art hardware and software.

Program Goals

- To provide student with sufficient knowledge of visual elements such as type, illustration, graphics, photography, new media and animation and instruct them on how to utilize these skills to create effective design solutions and guide a job from concept to completion.
- To train students to use a variety of specialized computer software, hardware and peripherals.
- To instruct students on visual problem solving principles, team development skills, and graphic production standards.
- To prepare and guide the student to use his/her well-rounded portfolio to qualify for entry into a four-year college or university and transfer to a baccalaureate program in a computer graphics related field.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Apply information design skills used in the fields of computer graphics, multimedia design, animation and interactive video.
2. Analyze client needs and create effective design solutions.
3. Utilize fundamental principles and practices required by computer graphic professionals.
4. Use a variety of specialized computer graphic software, hardware and peripherals.

Employment Opportunities

- Computer animation
- Computer graphics
- Electronic publishing
- Multimedia

Contact Persons

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Highlights

There are cooperative education opportunities with local employers. This course transfers to baccalaureate programs in computer-related fields.

LIBERAL ARTS AND SCIENCE Computer Graphics Option

Degree: Associate in Arts
 College Code: CGR.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
CGR-104	Digital Design Fundamentals	3
CGR-111	Computer Graphics I	3
.....	Language General Education Elective ¹	3
		15
Second Semester		
ENG-102	English Composition II	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
CGR-112	Computer Graphic Design II	3
.....	Language General Education Elective ¹	3
MTH ...	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ²	3/4
		15/16
Second Year/First Semester		
CGR-121	Multimedia Technology I	3
CIS-191	Internet Tools & Techniques	3
MTH ...	Mathematics General Education Elective	3/4
.....	Social Science General Education Elective	3
.....	Humanities General Education Elective	3
	(not a History or Language course)	15/16
Second Semester		
CGR-253	Digital Illustration	3
SPE-102	Public Speaking	3
.....	Laboratory Science General Education Elective	4
.....	Diversity: General Education Elective	3
.....	Social Science General Education Elective	3
		16
	Total Minimum Credits	61

¹Must take 6 credits in one language

^{*}See individual languages under Course Descriptions for requisites on placement.

² The following Lab Science courses are recommended for non-science majors: BIO-106, BIO-140, CHM-140, PHY-103

Program Description

Designed to provide graduates with techniques in graphics and electronic publishing layout skills, the program focuses on the use of application software and hardware. State-of-the-art micro-based laboratories are available to all course students.

Program Goals

- To provide students with the skills necessary to analyze client needs and use a variety of specialized computer software, hardware and peripherals to design, compose and produce work using electronic publishing and layout software.
- To instruct students on visual problem solving principles, team development skills, and graphic production standards.
- To provide students with a working knowledge of visual elements such as type, illustration, graphics, photography, new media and animation so that the overall design is more effective.
- To prepare and guide the student to use his/her well-rounded portfolio to qualify for entry into a four-year college or university and transfer to a baccalaureate program in a computer graphics related field.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Analyze client needs and create effective design solutions.
2. Use a variety of specialized electronic publishing software, hardware and peripherals.
3. Utilize industry standard electronic publishing skill set.
4. Critically analyze and electronically solve visual layout problems.

Employment Opportunities

- Advertising agencies
- Computer graphics
- Electronic publishing
- Newspapers

Contact Persons

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LIBERAL ARTS AND SCIENCE Computer Graphics Option: Electronic Publishing Track

Degree: Associate in Arts
College Code: ELP.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
CGR-104	Digital Design Fundamentals	3
CGR-111	Computer Graphic Design I	3
.....	Language General Education Elective ¹	3
		15
Second Semester		
ENG-102	English Composition II	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
CGR-101	Electronic Layout & Design	3
.....	Language General Education Elective ¹	3
MTH.....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ²	3/4
		15/16
Second Year/First Semester		
CGR-102	Electronic Publishing & Prepress	3
CGR-112	Computer Graphic Design II	3
MTH.....	Mathematics General Education Elective	3/4
.....	Humanities General Education Elective	
	(not a History or Language course)	3
.....	Social Science General Education Elective	3
		15/16
Second Semester		
CIS-191	Internet Tools & Techniques	3
SPE-102	Public Speaking	3
.....	Laboratory Science General Education Elective	4
.....	Diversity: General Education Elective	3
.....	Social Science General Education Elective	3
		16
Total Minimum Credits		61

¹ Must take 6 credits in one language

* See individual languages under Course Descriptions for requisites on placement.

² The following Lab Science courses are recommended for non-science majors:

BIO-106, BIO-140, CHM-140, PHY-103

Computer Science

Degree: Associate in Arts
College Code: CSC.AA

Program Description

The curriculum emphasizes software design and programming, computer architecture and functions, and development of an ability to analyze problems and use the computer as a problem-solving tool. Students graduating from the program will be awarded an associate in arts degree. The program is designed as the first two years of a BA in computer science degree at a baccalaureate institution.

Program Goals

- To provide students with the skills required to analyze, design, develop and test computer based applications using problem solving and analytical skills.
- To instruct students on how to properly document their work using effective communication skills to ensure it is error free and meets the application standards.
- To prepare students to demonstrate proficiency in scientific and mathematical principles that supports the study of computer science while providing a pedagogical path, which is not as mathematically rigorous as the CSC.AS route.
- To provide students with the full complement of general education requirements which will ready them to or transfer their credits to a bachelor of arts program in computer science.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Analyze, design, develop and test computer based applications using problem solving and analytical skills developed throughout the program.
2. Document work using effective communication skills to ensure it is error free and meets the application standards.
3. Apply scientific and mathematical principles to the study of computer science.

Employment Opportunities

- Artificial intelligence
- Computer architecture
- Computer design
- Computer programming
- Computer theory
- Operating systems and networks

Contact Persons

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Professor Anita Wright, ext. 4760

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¹ It is recommended that students with no prior programming experience take CSC-105 Fundamentals of Programming prior to taking CSC-121 Structured Programming.

² Students must complete MTH-140. MTH-111 only to be taken if MTH-140 has been completed.

³ Must take six credits in one language.

* See individual languages under Course Descriptions for requisites on placement.

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
CSC-121	Structured Programming (C++) ¹	4
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
MTH-125	College Algebra & Trigonometry or	
MTH-130	Pre-Calculus II or	
MTH-140	Calculus I	3/4
.....	Social Science General Education Elective	3
		16/17
Second Semester		
ENG-102	English Composition II	3
CSC-122	Computer Science I	4
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
MTH-140	Calculus I ¹ or	
MTH-111	Elements of Statistics I ²	3/4
.....	Social Science General Education Elective	3
		16/17
Second Year/First Semester		
CSC-223	Computer Science II	4
MTH-129	Discrete Mathematics	4
.....	Diversity: General Education Elective	3
.....	Laboratory Science General Education Elective	4
.....	Language General Education Elective ³	3
		18
Second Semester		
CSC-226	Programming Languages or	3
CSC-240	Computer Organization	3
SPE-102	Public Speaking	3
.....	Language General Education Elective ³	3
.....	Humanities General Education Elective	3
		12
Total Minimum Credits		62

Computer Science

Degree: Associate in Science
College Code: CSC.AS

Program Description

The curriculum in Computer Science is oriented towards science and technology and spans the range from theory to programming. It emphasizes software design and programming, computer architecture and functions, and development of an ability to analyze problems and use the computer as a problem-solving tool. Students graduating from the program will be awarded an associate in science degree.

Program Goals

- To provide students with the skills required to analyze, design, develop and test computer based applications using problem solving and analytical skills developed throughout the program.
- To instruct students on how to properly document their work using effective communication skills to ensure it is error free and meets the application standards.
- To prepare students to demonstrate proficiency in scientific and mathematical principles that supports the study of computer science.
- To provide students with the full complement of general education requirements for transfer to a bachelor of science program in computer science.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Analyze, design, develop and test computer based applications using problem solving and analytical skills developed throughout the program.
2. Document work using effective communication skills to ensure it is error free and meets the application standards.
4. Integrate science, math and computer skills to design and implement high level computer programming.

Employment Opportunities

- Artificial intelligence
- Computer architecture
- Computer design
- Computer programming
- Computer theory
- Operating systems and networks

Contact Persons

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Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-101	World Civilization I	3
CSC-121	Structured Programming (C++)	4
MTH-125	College Algebra & Trigonometry or	
MTH-130	Trigonometry & Analytic Geometry or	
MTH-140	Calculus I	3/4
.....	Social Science General Education Elective	3
		16/17
Second Semester		
ENG-102	English Composition II	3
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
CSC-122	Computer Science I	4
MTH-140	Calculus I or	
MTH-150	Calculus II	4
.....	Social Science General Education Elective	3
		17
Second Year/First Semester		
CSC-223	Computer Science II	4
MTH-129	Discrete Mathematics	4
PHY-201	Physics III	4
MTH-150	Calculus II or	
MTH-111	Elements of Statistics I	3/4
		15/16
Second Semester		
CSC-226	Programming Languages	3
CSC-240	Computer Organization	3
MTH-145	Linear Algebra	4
PHY-202	Physics IV	4
		14
	Total Minimum Credits	62

Program Description

The Criminal Justice program prepares students for employment with municipal, county, state, and federal law enforcement agencies. This program has both a career and a transfer component.

Program Goals

- To prepare students to transfer to various colleges offering baccalaureate degrees in criminal justice and the social sciences.
- To prepare student to demonstrate a working knowledge of the components of the criminal justice system and the various types of agencies involved in the administration of criminal justice.
- To prepare students to apply critical thinking skills to resolve criminal justice practitioner problems with the public.
- To prepare students to develop a system of self assessment and establish personal career goals and objectives to enhance personal growth.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Discuss the concepts of the Constitution of the United States.
2. Compare and contrast the components of the criminal justice system and the various types of agencies involved in the administration of criminal justice.
3. Extrapolate local criminal justice issues to global justice and security issues.
4. Analyze criminal justice practitioner problems with the public.

Employment Opportunities

- Law enforcement officer at the municipal, county, and state levels
- Correctional officer
- Investigator within the county, state, and federal governments
- Probation aide

Contact Person

Professor Gene Evans, Coordinator
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Highlights

Students are able to transfer to various colleges offering degrees in criminal justice.

Criminal Justice

Degree: Associate in Science
College Code: CRJ.AS

Code	Course	Credits
First Year/First Semester		
CRJ-101	Administration of Justice	3
CRJ-105	Criminal Law	3
ENG-101	English Composition I	3
SOC-101	Introduction to Sociology or	
PSY-101	Basic Psychology	3
CSC-101	Computer Literacy ¹	3
		15
Second Semester		
CRJ-104	Juvenile Delinquency	3
CRJ-106	Contemporary Corrections	3
CRJ-203	Principles of Investigation	3
ENG-102	English Composition II	3
MTH ...	Mathematics General Education Elective	3
POL-101	Introduction to Political Science or	
POL-103	American Federal Government	3
		18
Second Year/First Semester		
CRJ-103	Legal Systems	3
CRJ-251	Crime Analysis	3
POL-111	Public Administration	3
SPE-102	Public Speaking	3
.....	Social Science General Education Elective	3
		15
Second Semester		
CRJ.....	Criminal Justice Elective	3
HIS-101	World Civilization I	3
POL-112	Public Personnel Administration	3
PHL-131	Introduction to Ethics	3
.....	Laboratory Science General Education Elective	4
		16
	Total Minimum Credits	64

¹ Students who pass a qualifying exam are encouraged to take CIS-206 Advanced Computer Concepts

Program Description

The program teaches students to discover movement as a means of expression and development of ideas. It offers techniques of body control, rhythm, and movement. This option offers equal concentration in classical, ballet, modern and jazz. Each semester the students participate in a dance concert and in theatre musicals.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for a dance major.
- To ensure transferability of course work to four-year colleges and universities.
- To demonstrate movement as a means of expression and development of ideas.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Demonstrate movements as a means of expression and development of ideas.
2. Choreograph and present a piece from each dance genre.
3. Define and apply the vocabulary of each dance genre.
4. Discuss the influence of history on dance.

Special Program Requirement

Dance majors will be asked to audition

Employment Opportunities

- Choreographer
- Dance therapist
- Director of dance company
- Performer
- Teacher

Contact Person

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¹DAN-101 Introduction to Dance is recommended for Dance Majors

²The following laboratory science courses are recommended for non-science majors: BIO-106, BIO-140, CHM-140, PHY-103

³Students must take 6 credits of one language

* See individual languages under Course Descriptions for requisites on placement

Highlights

This option transfers to baccalaureate programs in dance.

Students have the opportunity to do their own choreography for the dance concerts.

LIBERAL ARTS AND SCIENCE Dance Option

Degree: Associate in Arts
College Code: DAN.AA

Code	Course	Credits
First Year/First Semester		
DAN-111	Ballet I	3
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
MTH....	Mathematics General Education Elective	3
.....	Humanities General Education Elective ¹ (not a History or Language course)	3
		15
Second Semester		
DAN-112	Ballet II	3
DAN-121	Jazz I	3
ENG-102	English Composition II	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
.....	Laboratory Science General Education Elective ²	4
		16
Second Year/First Semester		
DAN-231	Modern Dance I	3
DAN-222	Jazz II	3
SPE-102	Public Speaking	3
.....	Technology General Education Elective	3
.....	Language General Education Elective ³	3
.....	Social Science General Education Elective	3
		18
Second Semester		
DAN-232	Modern Dance II	3
.....	Social Science General Education Elective	3
.....	Language General Education Elective ³	3
MTH ...	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ²	3/4
.....	Diversity: General Education Elective	3
		15/16
Total Minimum Credits		64

Program Description

This option is designed to meet the needs of students who wish to learn about deafness and sign language in depth but do not wish to become professional interpreters. Although the Deaf Studies Option is similar to the Interpreter Education program, it does not require that students take courses specifically designed to enhance or teach interpreting skills. Instead, the Deaf Studies Option offers a more general education in liberal arts.

Program Goals

- To prepare students to communicate in American Sign Language with a high degree of fluency.
- To prepare students to analyze source language texts.
- To prepare students to assess the communication needs of deaf consumers in a variety of settings.
- To provide students with an understanding of the deaf community and support service system.
- To foster in students the commitment to empower deaf people in society through support service initiatives.
- To provide students with a broad knowledge base in deafness and sign language in order to become employed in deafness related professions.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Communicate in American Sign Language with fluency.
2. Analyze source language texts.
3. Assess the communication needs of deaf consumers in a variety of settings.
4. Describe the deaf community and the support service system.

Employment Opportunities

Though this curriculum does not prepare students for specific careers after graduation, the broad liberal arts background assists students in pursuing careers in deafness which require advanced degrees. These careers include audiology, counseling for the deaf, and psychology for the deaf.

Contact Person

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Recommendations

A general education background prepares students for transfer to upper level institutions in fields relating to the deaf. Specialization within the option increases opportunities for employment in a variety of emerging professions serving the deaf.

LIBERAL ARTS AND SCIENCE Deaf Studies Option

Degree: Associate in Arts
 College Code: SLS.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
ASL-101	American Sign Language I	3
SPE-102	Public Speaking	3
.....	Social Science General Education Elective ¹	3
		15
Second Semester		
ENG-102	English Composition II	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
ASL-102	American Sign Language II ¹	3
ASL-103	Fingerspelling	3
.....	Social Science General Education Elective ¹	3
		15
Second Year/First Semester		
ASL-201	American Sign Language III	3
SLS-201	ASL Syntax Grammar	3
MTH ...	Mathematics General Education Elective	3
.....	Laboratory Science General Education Elective ²	4
.....	Diversity: General Education Elective	3
		16
Second Semester		
ASL-202	American Sign Language IV	3
SLS-205	Field Observation & Practicum	4
.....	Technology General Education Elective	3
MTH.....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ²	3/4
.....	Humanities General Education Elective (not a History or Language course)	3
		16/17
Total Minimum Credits		62

¹ Recommended PSY-101 Basic Psychology and SOC-101 Introduction to Sociology

²The following laboratory science courses are recommended for non-science majors: BIO-106, BIO-140, CHM-140, PHY-103

Program Description

The Early Childhood Education, Associate in Arts degree is designed to prepare students for a baccalaureate degree while meeting the required educational qualifications to become a group teacher in early childhood centers licensed by the New Jersey Department of Human Services/Division of Youth and Family Services (DYFS). Students will learn in a supportive environment how to design and apply developmentally appropriate activities for children ages birth to 8 years through foundational course work, along with internships in early childhood settings that include child care centers, Head Start Programs, family childcare homes, and public and private schools. Students will enhance their knowledge and skills as early childhood educators while learning to work more effectively with other professionals, families and community members.

Program Goals

- To prepare students to follow the alternate route to P-3 Certification.
- To prepare students to transfer to bachelor level programs (e.g., teacher preparation program in early childhood education, human services, and general liberal arts).
- To prepare students to design developmentally appropriate early childhood lesson plans.
- To prepare students to demonstrate knowledge of prominent early childhood developmental theories.
- To prepare students to document entry level work experience as a result of fieldwork participation.
- To prepare students to show evidence of ethical behavior in the early childhood field.
- To prepare students to demonstrate the elements of effective working relationship with children, families, and coworkers
- To prepare students to apply for group teacher certification through the New Jersey Division of Youth and Family Services (DYFS) Bureau of Licensing.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Design developmentally appropriate early childhood lesson plans.
2. Compare and contrast early childhood developmental theories.
3. Explain and use elements of effective working relationships encompassing the ideals of empathy, positive communication and active listening.
4. Work ethically in an early childhood education setting.

Transfer Opportunities

The most popular transfer destinations of early childhood education students seeking their bachelor's degree include:

- Rutgers – Liberal Studies program
- Widener University – Early Childhood Education
- Rowan University's College of Education majoring in Elementary/Early Childhood Education
- Thomas Edison College

Contact Person

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LIBERAL ARTS AND SCIENCE Early Childhood Education Option

Degree: Associate in Arts
 College Code: ECE.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HSR-133	Curriculum: Early Childhood Education	3
MTH...	Mathematics General Education Elective	3/4
PSY-101	Basic Psychology	3
.....	Technology General Education Elective	3
		15/16
Second Semester		
ENG-102	English Composition II	3
HSR-101	Introduction to Human Services	3
HSR-140	Child Development: Preschool Child	3
HIS-101	World Civilization I or	
HIS-111	Western Civilization I	3
MTH...	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective	3/4
		15/16
Second Year/First Semester		
HIS-102	World Civilization II or	
HIS-103	World Civilization III or	
HIS-112	Western Civilization II	3
.....	Laboratory Science General Education Elective	4
.....	Social Science General Education Elective	3
.....	Language General Education Elective ¹	3
.....	Diversity: General Education Elective	3
		16
Second Semester		
HSR-107	Field Work I ²	3
HSR-139	Behavior Management	3
SPE-102	Public Speaking	3
.....	Language General Education Elective ¹	3
.....	Humanities General Education Elective (Not a History or Language course)	3
		15
Total Minimum Credits		61

¹ Students must take six credits of one language

* See individual languages under Course Descriptions for requisites on placement

² Field Work I (HSR-107) should only be taken in the last semester prior to graduating.

This program transfers seamlessly into Rutgers Childhood Studies Program, which includes a bachelor's degree and P-3 Certification.

Program Description

This program is essentially the first two years of a baccalaureate degree in elementary and secondary education. The curriculum is specific in order to facilitate transfer of Camden County College credits. The curriculum is based on New Jersey State Teacher Certification requirements and teacher transferability to education programs in the region.

Program Goals

- To prepare students to contrast and compare major types of curriculum organization.
- To prepare students to compare the various theories of cognitive development and the implications each has for the education system.
- To prepare students to outline stages of child development and describe how each affects the learning process.
- To prepare students to discuss current research and approaches to educational issues, such as classroom management and special education for the gifted, creative, learning disabled, physically handicapped, mentally retarded and emotionally disturbed.
- To prepare students to articulate the components of their personal philosophy of education.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Articulate an understanding of today's students in a diverse society and the societal influence on education
2. Explain the characteristics of the teaching profession including the processes of teaching and learning
3. Discuss the historical development of current educational issues
4. Articulate the components of their personal philosophy of education

Contact Person

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¹ Elementary Education students should enroll in MTH-105 Math Systems I: Structures, MTH-106 Math Systems II: Geometry or MTH-107 Math for Liberal Arts for their two Mathematics Electives.

² The electives are chosen from those courses which articulate to the student's transfer institution's education program. Students are strongly recommended to check with their curriculum advisor.

³ A student who intends to choose the elementary history coordinate or the Communication: Writing Arts coordinate at Rowan University should enroll in Macroeconomics or Introduction to Political Science. A student who intends to choose the American Studies coordinate at Rowan University should enroll in American Federal Government.

⁴ A student who intends to choose the History coordinate at Rowan University or the Education majors at Rutgers University should enroll in World Literature. A student who enrolls in the American Studies coordinate at Rowan University should enroll in American literature.

⁵ A student who intends to choose the American studies coordinate at Rowan University should enroll in Art History

* Any student who intends to teach math or science should follow the math or science curriculum at Camden County College and not the Elementary/Secondary Education curriculum.

Program Information

Secondary Education students interested in a math, biology, chemistry or physics co-major should follow the curriculum for the Liberal Arts and Science Mathematics Option, the Liberal Arts and Science Biology Option, the Liberal Arts and Science Chemistry Option, the Liberal Arts and Science Physics Option and not the Elementary/Secondary Education curriculum.

Elementary/Secondary Education

Degree: Associate in Science
College Code: EDU.AS

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or World Civilization I	3
HIS-101	World Civilization I	3
PSY-101	Basic Psychology	3
SPE-102	Public Speaking	3
MTH.....	Mathematics General Education Elective ¹	3/4
		15/16
Second Semester		
ENG-102	English Composition II	3
HIS-121	United States History I or United States History II	3
HIS-122	United States History II	3
PSY-105	Child Psychology	3
ART-101	Art Appreciation I or Art History I or Art History II	3
ART-111	Art History I or Art History II	3
MUS-101	Music Appreciation I or Theatre Appreciation ⁵	3
THE-121	Theatre Appreciation ⁵	3
HPE-102	Health and Wellness or Health and Personal Living	3
HPE-104	Health and Personal Living	3
MTH.....	Mathematics General Education Elective ¹	3/4
		18/19
Second Year/First Semester		
EDU-100	Teaching: An Introduction to the Profession	3
SOC-101	Introduction to Sociology or Macroeconomics or Introduction to Political Science or American Federal Government ³	3
ECO-101	Macroeconomics or Introduction to Political Science or American Federal Government ³	3
POL-101	Introduction to Political Science or American Federal Government ³	3
POL-103	American Federal Government ³	3
GEO-101	Cultural Geography	3
.....	Laboratory Science General Education Elective	4
.....	Free Elective ²	3
		16
Second Semester		
EDU-101	Historical Trends in American Education	3
PSY-103	Educational Psychology	3
ENG-121	Introduction to Literature or American Literature I ⁴ or American Literature II ⁴ or World Literature I or World Literature II	3
ENG-281	American Literature I ⁴ or American Literature II ⁴ or World Literature I or World Literature II	3
ENG-282	American Literature I ⁴ or American Literature II ⁴ or World Literature I or World Literature II	3
ENG-271	World Literature I or World Literature II	3
ENG-272	World Literature I or World Literature II	3
.....	Free Elective ²	3
.....	Free Elective ² or Science General Education Elective ²	3/4
.....	Science General Education Elective ²	3/4
		15/16
Total Minimum Credits		64

Engineering Science

Degree: Associate in Science
College Code: EGR.AS

Program Description

Engineering uses the physical sciences to design and develop products and systems. It uses problem-solving techniques to find solutions to technical problems and other complex issues facing society.

Program Goals

- To prepare students to use a multi-disciplinary set of core theories from mathematics and physical sciences and apply them to solve problems in higher-level courses in a college of engineering.
- To instruct students on how to utilize computer-assisted engineering software to solve specific engineering problems.
- To instruct students in the skills and scientific theory needed to prepare oral and written presentations that meet the standards of business and industry.
- To instill in the students a commitment to lifelong learning which fosters in them a desire to transfer credits to a baccalaureate engineering science program.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Utilize advanced mathematics, including Calculus to solve problems in physical and applied sciences related to engineering.
2. Work in teams to successfully analyze and propose alternate strategies to solve problems in systems, processes or products.
3. Utilize specialized computer programs to improve productivity in different engineering disciplines.
4. Explain engineering concepts relevant to electrical and mechanical systems.
5. Compare and contrast different engineering disciplines.

Special Admission Requirements

Students entering this program should have had above average achievement in high school science and mathematics and should have taken one year of high school physics, chemistry, and English.

To begin this program, students must have had three years of academic mathematics.

Employment Opportunities

- Design engineer
- Insurance adjuster
- Maintenance engineer
- Maintenance supervisor
- Research and development assistant

Contact Persons

Professor Lawrence M. Chatman, Coordinator
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Highlights

Camden County College has specific articulation agreements with the engineering science programs at several colleges and universities in the area. The program successfully transfers to most engineering colleges throughout the country.

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
CAD-101	Computer Aided Engineering Graphics	4
CHM-111	Chemistry I - Science	4
MTH-140	Calculus I	4
PHY-201	Physics III	4
		19
Second Semester		
ENG-102	English Composition II	3
CHM-112	Chemistry II - Science	4
MTH-150	Calculus II	4
PHY-202	Physics IV	4
EGR-101	Introduction to Engineering	2
		17
Second Year/First Semester		
MTH-145	Linear Algebra	4
MTH-210	Calculus III	4
CSC-121	Structured Programming (C++)	4
EGR-201	Statics ¹	3
.....	Social Science General Education Elective ²	3
		18
Second Semester		
MTH-220	Differential Equations	4
EGR-211	Engineering Circuit Analysis	3
EGR-202	Dynamics ¹	3
.....	Humanities General Education Elective	3
.....	Diversity: Humanities General Education Elective	3
		16
Total Minimum Credits		70

¹ Students planning to major in Chemical Engineering should take Organic Chemistry I & II in lieu of Statics and Dynamics.

² Microeconomics (ECO-102) is recommended.

Program Description

The program is designed to constitute the first two years of a baccalaureate degree in English. It prepares a student for transfer to the junior year at a four-year college or university.

Program Goals

- To provide students with a foundation in English literary study
- To provide a concentration of course work appropriate for an English major.
- To insure transferability of course work to four-year colleges and universities.
- To provide a broad perspective to the students' education with an emphasis on the ways in which literature includes and promotes study in history, language and culture in America as well as the world.
- To develop students' proficiency in critical analysis, reading and writing.
- To develop a familiarity with research techniques.
- To develop insight into the nature of studying within the humanities.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Discuss and write about literature.
2. Use the nomenclature of literary study to analyze literature.
3. Research and address literary topics.
4. Analyze the grammar of the sentence (beyond that required in composition courses).

Special Program Information

As soon as possible, students are recommended to access curriculum requirements of possible transfer institutions.

Employment Opportunities

- Teaching
- Writing
- Editing

Contact Persons

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¹ Students must take six credits of one language

* See individual languages under Course Descriptions for requisites on placement.

² The following laboratory science courses are recommended for non-science majors: BIO-106, BIO-140, CHM-140, PHY-103

Note

While many colleges and universities accept most if not all of the literature courses the student chooses to take toward his or her major, there are some institutions that will only accept courses in World Literature and Shakespeare.

LIBERAL ARTS AND SCIENCE English Option

Degree: Associate in Arts
College Code: ENG.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-101	World Civilization I or	
HIS-111	Western Civilization I	3
MTH.....	Mathematics General Education Elective	3
.....	Language General Education Elective ¹	3
.....	Social Science General Education Elective	3
		15
Second Semester		
ENG-102	English Composition II	3
ENG-210	English Grammar	3
HIS-102	World Civilization II or	
HIS-103	World Civilization III or	
HIS-112	Western Civilization II	3
.....	Technology General Education Elective	3
.....	Language General Education Elective ¹	3
HPE.....	Health and Exercise Science Elective	1
		16
Second Year/First Semester		
ENG-271	World Literature I or	
ENG-272	World Literature II	3
ENG-281	American Literature I or	
ENG-282	American Literature II	3
SPE-102	Public Speaking	3
.....	Laboratory Science General Education Elective ²	4
.....	Social Science General Education Elective	3
		16
Second Semester		
ENG-131	Shakespeare	3
ENG-261	English Literature I or	
ENG-262	English Literature II	3
MTH.....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ²	3/4
.....	Diversity General Education Elective	3
.....	Humanities General Education (not a History or Language course)	3
		15/16
Total Minimum Credits		62

Program Description

The program prepares students for careers in specific art-related industries. It is designed to enable students to recognize and adhere to professionalism in industrial art and transfer into Bachelor of Arts (B.A.) programs.

Program Information

- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for an Applied Arts major.
- To ensure transferability of course work to four-year colleges and universities.
- To demonstrate critical judgment by selecting, gathering, and organizing work for submission in the exit portfolio.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Draw from life (observational drawing).
2. Design projects in both two and three dimensions.
3. Apply the fundamentals of design and applied arts studio to the problem solving and crafting aspects of their visual arts pursuits.
4. Make, comprehend and evaluate works of visual fine art and design.

Academic Opportunities

- Independent Study
- Service Learning
- Art Co-ops/internships
- Visiting artists/lectures/trips

Employment Opportunities

- Graphics
- Illustration
- Industrial design
- Printmaking
- Fashion design
- Interior design
- Architecture
- Cartooning/animation

Contact Persons

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LIBERAL ARTS AND SCIENCE Fine & Applied Arts Option: Applied Arts Track

Degree: Associate in Arts
College Code: APA.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
ART-123	Basic Drawing I (AFA)	3
ART-166	Two Dimensional Design (AFA)	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
MTH ...	Mathematics General Education Elective	3
HPE	Health & Exercise Science Elective	1
		15
Second Semester		
ENG-102	English Composition II	3
ART-124	Basic Drawing II (AFA) or	
ART-134	Life Drawing I	3
ART-167	Three Dimensional Design (AFA)	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
.....	Technology General Education Elective	3
		15
Second Year/First Semester		
ART-165	Color: Theory and Practice	3
SPE-102	Public Speaking	3
.....	Language General Education Elective ¹	3
.....	Laboratory Science General Education Elective ²	4
.....	Social Science General Education Elective	3
		16
Second Semester		
MTH ...	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ²	3/4
.....	Language General Education Elective ¹	3
.....	Social Science General Education Elective	3
.....	Humanities General Education Elective ³ (not a History or Language course)	3
.....	Diversity General Education Elective	3
		15/16
Total Minimum Credits		61

¹ Must take 6 credits in one language

² See individual languages under Course Descriptions for requisites on placement

³ The following laboratory science courses are recommended for non-science majors:
CHM-150, BIO-106, BIO-140, CHM-140, PHY-103

³ Recommend ART-111 or ART-112

Highlights

- This program enables students to transfer successfully upon completion.
- Students have the opportunity to show their work in the College's art gallery.

Program Description

This curriculum will prepare students to transfer to a four-year institution with junior status to pursue a bachelor of science degree in food science. Students will have a strong background in chemical sciences, which will serve as a foundation for further study in food science.

Program Goals

- To prepare students to transfer to a four year institution with junior status.
- To provide student with a strong foundation in the physical sciences for further study.
- To provide coursework for career advancement to students already employed in the food science industry.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Compare and contrast the chemical and physical properties of the molecules making up the major food groups.
2. Explain the metabolic pathways as they pertain to the production and use of energy.
3. Work safely in the laboratory.
4. Analyze and synthesize data.
5. Present scientific information in both an oral and written format.

Contact Persons

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 Marsha Patrick, Director
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LIBERAL ARTS AND SCIENCE Food Science Option

Degree: Associate in Science
 College Code: FDS.AS

Code	Course	Credits
First Year/First Semester		
BIO-111	Biology I - Science	4
CHM-111	Chemistry I - Science	4
MTH-140	Calculus I	4
ENG-101	English Composition I	3
BIT-101	Biotechnology Seminar	2
		17
First Year/Second Semester		
BIO-221	Microbiology I	4
CHM-112	Chemistry II – Science	4
ENG-102	English Composition II	3
HIS-101	World Civilization I or	
ENG-271	World Literature I	3
FNS-105	Introduction to Nutrition	3
		17
Second Year/First Semester		
BIT-202	Instrumental Analysis	4
CHM-221	Organic Chemistry I	4
CHM-160	Fundamentals of Food Science	4
.....	Social General Education Science Elective or	
.....	Humanities General Education Elective ¹	3
		15
Second Year/Second Semester		
CHM-210	Fundamentals of Biochemistry	4
CHM-222	Organic Chemistry II	4
FNS-220	Quantity Food Production	3
.....	Social Science General Education Elective	3
		14
Total Minimum Credits		63

¹ Students should check with requirements of their transfer institution.

Program Description

The Health and Exercise Science Option prepares a student to receive an Associate in Science degree (A.S.) and transfer to a four-year college to major in a variety of related fields in health, physical education, athletic training, and exercise science.

Program Goals

- To prepare graduates to transfer to four-year colleges or universities for further study in health and exercise science and physical education.
- To prepare students with a strong knowledge specific to health and exercise science through successful completion of coursework related to this major.
- To prepare students with a broad base of education through the successful completion of a variety of general education courses.
- To provide students with an understanding of the various career opportunities and areas of specialization within the field of health and exercise science.
- To provide students with a firm foundation in basic human biology as it relates to health and exercise science.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Apply knowledge in basic human biology to exercise science.
2. Perform critical analysis in solving problems and analyzing information as it relates to health and exercise science.
3. Explain and apply basic CPR and first aid techniques.
4. Identify and discuss current health issues in the United States.

Employment Opportunities

- Employment opportunities in health, physical education, exercise science, fitness, sports medicine and coaching will continue to be in high demand.
- A student interested in a career in health and physical education should demonstrate an interest in working with individuals who may vary in age from pre-school to senior citizen.
- Specific professional opportunities include teaching health and physical education in public and private schools (K-12), directing adults in corporate, private and recreational fitness programs, coaching school and recreational teams and working in sports medicine and allied health settings.

Areas of Employment:

- Teaching physical education and health
- Fitness centers
- YMCAs
- Wellness centers
- Corporate fitness programs
- Public & private schools
- Sports teams
- Athletic programs

Contact Person

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LIBERAL ARTS AND SCIENCE Health and Exercise Science Option

Degree: Associate in Science
College Code: HPE.AS

Code	Course	Credits
First Year/First Semester		
BIO-111	Biology I - Science	4
CSC-101	Computer Literacy	3
ENG-101	English Composition I	3
HIS-101	World Civilization I	3
PSY-101	Basic Psychology	3
		16
Second Semester		
BIO-211	Anatomy & Physiology I	4
ENG-102	English Composition II	3
HPE-170	First Aid, Safety & Prevention Of Injuries	3
MTH-111	Elements of Statistics I	3
SPE-102	Public Speaking	3
		16
Second Year/First Semester		
BIO-212	Anatomy & Physiology II	4
HPE-102	Health and Wellness	3
HPE-195	Concept of Individual/Dual Sports ¹	3
ENG.....	Humanities: Literature General Education Elective	3
.....	Free Elective ²	3
		16
Second Semester		
FNS-105	Introduction to Nutrition	3
HPE-220	Exercise Physiology ³	4
SOC-101	Introduction to Sociology	3
.....	Humanities General Education Elective ⁴	3
.....	Free Elective ⁵	3
		16
Total Minimum Credits		64

¹ Offered in the Fall only. Students transferring to Rowan for Athletic Training should see the Program Director.

² Students transferring to Rowan for teaching physical education should take Historical Trends in American Education (EDU-101). Students transferring to Rowan for Athletic Training should take Developmental Psychology (PSY-109). All other students should take Intro to Health and Exercise Science (HPE-101) (offered in Fall Semester).

³ Offered in spring semester, day only.

⁴ Students interested in teaching or Athletic Training should take a Humanities: Arts General Education Elective. Students interested in Fitness Management should take a Language General Education Elective.

⁵ Students transferring to Rowan for teaching physical education should take Teaching: Introduction to the Profession (EDU-100). Other students should take Health and Personal Living (HPE-104) or Contemporary Issues In Health (HPE-190).

Highlights
There are transfer opportunities to the College of New Jersey, Delaware College, Rowan, Rutgers, Temple and West Chester Universities.

Program Description

Human services encompass a wide spectrum of community work designed to help people. Human service professionals work in mental health organizations, developmental disability services, substance abuse programs, and multi-service centers.

Program Goals

- To prepare students to qualify for transfer to various baccalaureate programs in human service or other related social service fields.
- To provide students with the beginning competencies in the field of human services.
- To prepare students to work with specific population groups and in different practice situations.
- To provide students with the knowledge of available human service delivery systems in the community the student works and lives in.
- To prepare the student to demonstrate a commitment to the promotion of the human services field while maintaining the integrity of a professional according to the ethical codes of the human services professional organizations.
- To provide the students with communication and listening skills to help clarify client's needs as well as oral and written communication skills to enhance agency, institution, and community needs.
- To prepare the students to link the community systems with people systems that provide them with resources, services, and opportunities for improving social functioning.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Analyze contemporary social welfare issues affecting American society.
2. Behave in a professional and ethical manner.
3. Explain and use elements of effective working relationships encompassing the ideals of empathy, positive communication and active listening.
4. Differentiate between various types of services within the social welfare system.

Transfer Opportunities

Many of our students go on to earn bachelor's degrees in human services. Students transferring to Rutgers University and expecting to major in social work will need to also apply separately to the School of Social Work. Students will be required to do a 120-hour internship with a social welfare agency during the second year, second semester.

The most popular transfer destinations include:

- Rutgers University School of Social Work
- Rutgers University Liberal Arts Program
- New Jersey City University
- Rowan University
- The Richard Stockton College of New Jersey
- Thomas Edison State College of New Jersey

Employment Opportunities

- Social service
- Early childhood
- Community work
- Probation
- Rehabilitation
- Mental health
- Gerontology
- Corrections
- Addictions

Contact Person

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¹ Language General Education Elective Recommended for Students transferring to Rutgers School of Social Work & Richard Stockton College.

² MTH-111 & MTH-107 Recommended for Students transferring to Rutgers School of Social Work & Richard Stockton. (MTH-111 is a prerequisite for Rutgers School of Social Work)

³ BIO-111 is recommended for Richard Stockton College

⁴ BIO-103 is a prerequisite for Rutgers School of Social Work.

⁵ ENG-271 or HIS-101 is recommended for Rutgers School of Social Work and Richard Stockton College.

⁶ HIS-101 or HIS-102, or ART Gen Ed. Elective, or PHL-101, 131, 232 are recommended courses

⁷ Students should only register for this course in their last semester prior to graduation.

Highlights

- The courses transfer to baccalaureate programs in human services or other related social service fields.
- Over 50% of human service students get hired as a result of their internship in Social Welfare agencies throughout the Delaware Valley.

Human Services

Degree: Associate in Science
College Code: HSR.AS

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HSR-101	Introduction to Human Services	3
PSY-101	Basic Psychology	3
SOC-101	Introduction to Sociology	3
.....	Humanities General Education Elective ¹	3
		15
Second Semester		
ENG-102	English Composition II	3
HSR-104	Contemporary Issues in Social Welfare	3
MTH...	Mathematics General Education Elective ²	3
.....	Humanities General Education Elective ¹	3
.....	Laboratory Science General Education Elective ³	4
		16
Second Year/First Semester		
HSR-102	Social Work Processes	3
HSR-103	Introduction to Counseling	3
MTH.....	Mathematics General Education Elective ² or Laboratory Science General Education Elective or Technology General Education Elective	3/4
.....	General Education Elective ⁴	3
.....	Diversity General Education Elective ⁵	3
HPE...	Health & Exercise Science Elective	1
		16/17
Second Semester		
HSR-105	Group Dynamics	3
HSR-107	Field Work I ⁷	3
POL-101	Introduction to Political Science or American Federal Government	3
.....	General Education Elective ⁶	3
.....	General Education Elective ⁶	3
		15
Total Minimum Credits		62

Program Description

Students graduating from the Early Childhood program are prepared to work with young children in a variety of settings including home day care, childcare centers, preschools and elementary schools. This program emphasizes the developmental needs of young children from birth to the eighth year of life, providing our graduates with an expanding range of career opportunities in the public and private sector.

Program Goals

- To prepare students to apply for Group Teacher Certification through the New Jersey Division of Youth and Family Services (DYFS) Bureau of Licensing.
- To prepare students to transfer to bachelor level programs such as teacher preparation programs in Early Childhood Education, Human Services, and general Liberal Arts.
- To prepare students to design developmentally appropriate early childhood lesson plans.
- To provide students with the knowledge of prominent early childhood developmental theories.
- To prepare students to document entry level work experience as a result of fieldwork participation.
- To prepare students to show evidence of ethical behavior in the early childhood field.
- To prepare students to demonstrate the elements of effective working relationships with children, families, and co-workers.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. List and employ elements of ethical behavior working with early children per NJ State Standards for Early Childhood Educators and the NAEYC Code of Ethics.
2. Identify the essentials necessary to promote a safe and healthy environment for children.
3. Explain and use elements of effective working relationships encompassing the ideals of empathy, positive communication and active listening.
4. Design developmentally appropriate early childhood curriculum and plans in five subject areas.
5. Compare and contrast early childhood development theories, such as Piaget, Vygotsky, Gardner and Erickson.

Transfer Opportunities

Many of our students go on to earn bachelor's degrees in human services. Camden County College maintains articulation agreements with many colleges and universities, promoting an easy transfer process for students to enter four-year institutions. The most popular transfer destinations include:

- New Jersey City University
- Rutgers University
- Thomas Edison State College of New Jersey
- Widener University

Employment Opportunities

Career opportunities in early childhood include:

- Assistant teacher
- Family child care director
- Infant room teacher
- K-3 teacher's aide
- Pre-Kindergarten group teacher
- Special needs individual aide
- Toddler group teacher
- Group teacher
- Substitute teacher
- Teacher assistant

Contact Person

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Recommendations

With a degree in early childhood education students can apply for Group Teacher Certification through the New Jersey Division of Youth and Family Services (DYFS) Bureau of Licensing, 32 E. Hanover Street, Trenton, NJ.

HUMAN SERVICES Early Childhood Option

Degree: Associate in Science
College Code: ECH.AS

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HSR-101	Introduction to Human Services	3
HSR-135	Creative Arts: Early Childhood Learners	3
PSY-101	Basic Psychology	3
POL-101	Introduction to Political Science or	3
POL-103	American Federal Government	3
		15
Second Semester		
ENG-102	English Composition II	3
HSR-132	Children's Health	3
HSR-133	Curriculum: Early Childhood Education	3
HSR-140	Child Development: Preschool Child	3
.....	Mathematics General Education Elective or	
.....	Science General Education Elective or	
.....	Technology General Education Elective	3/4
		15/16
Second Year/First Semester		
HSR-137	Language Arts for the Pre-school Child	3
HSR-139	Behavior Management	3
SOC-101	Introduction to Sociology	3
.....	Laboratory Science General Education Elective	4
.....	Diversity General Education Elective	3
HPE.....	Health & Exercise Science Elective	1
		17
Second Semester		
HSR-107	Field Work I ¹	3
HSR-134	Quantitative Concepts for the Pre-school Child	3
HSR-136	Social Studies & Science Concepts for Pre-School Child	3
HIS.....	History General Education Elective	3
MTH.....	Mathematics General Education Elective	3/4
		15/16
Total Minimum Credits		62

¹ Field Work I should only be taken in the last semester prior to graduating.

* This program transfers seamlessly into Rutgers Childhood Studies Program, which includes a bachelor's degree and P-3 Certification.

Program Description

This program is designed for people who desire an international perspective and have an interest in foreign languages. Employment opportunities for such people are rising steadily. Thus, degrees in this program may lead to careers in international and cross-cultural settings, language translating, communications, and teaching.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for an International Studies major.
- To ensure transferability of course work to four-year colleges and universities.
- To provide an international perspective to the student's education with an emphasis on world history, world literature, language and culture, and courses which contain a strong international focus.
- To develop in students a facility and proficiency in the target language.
- To develop in students an awareness and compliant response to the target culture.
- To develop insight into the nature of language and culture.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Speak and write a language other than English.
2. Interpret written and orally presented information in a language other than English.
3. Compare and contrast various cultures with their own.

Special Program Requirement

Students must complete an intermediate II level of a foreign language prior to graduation.

Employment Opportunities

- Communications
- Cross-cultural counseling
- Foreign Service
- International business and affairs
- Translations

Recommended Electives

- Computer or business course
- Continuation or start of a second foreign language
- Courses taken abroad
- World Literature I and II

Contact Person

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LIBERAL ARTS AND SCIENCE International Studies Option

Degree: Associate in Arts
College Code: INT.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
SOC-101	Introduction to Sociology	3
.....	Language General Education Elective ¹	3
MTH.....	Mathematics General Education Elective	3
		15
Second Semester		
ENG-102	English Composition II	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
.....	Technology General Education Elective	3
.....	Language General Education Elective ¹	3
.....	Humanities General Education Elective ² (not a History or Language course)	3
HPE.....	Health & Exercise Science Elective	1
		16
Second Year/First Semester		
COM-145	Intercultural Communications	3
GEO-101	Cultural Geography	3
SPE-102	Public Speaking	3
.....	Language General Education Elective ³	3
.....	Laboratory Science General Education Elective ⁵	4
		16
Second Semester		
MTH.....	Mathematics General Education Elective Elective or	
.....	Laboratory Science General Education Elective	3/4
.....	Language General Education Elective ³	3
.....	Language General Education Elective ³	3
.....	Free Elective ⁴	3
.....	Free Elective ⁴	3
		15/16
Total Minimum Credits		62

¹ Language Gen. Ed. Elective: Student must take six credits of one language

² Humanities Gen. Ed. Elective: Art Appreciation I is recommended

³ Language Elective: Students must complete an Intermediate level of French, Spanish, Italian or German (if the student completed the Intermediate level after the first year, another language must be taken in the first and second semester of the second year)

* See individual languages under Course Descriptions for requisites on placement

⁴ Recommended Free Elective:
• Continuation or start of a second foreign language

• World Literature I, II
• Business courses for students electing a business emphasis

⁵ The following laboratory science courses are recommended for non-science majors:

BIO-106, BIO-140, CHM-140, PHY-103

curriculum, this option provides the first two years of a traditional four-year baccalaureate program.

Program Goals

- To provide students with a foundation in general education
- To provide a concentration of course work appropriate for a law, government, politics major.
- To ensure transferability of course work to four-year colleges and universities.
- To provide a program for students who are planning to major in pre-law or government at a four-year school.
- To provide students with an opportunity to get experience in local government offices if they choose to do so.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Discuss the structure, function, history and operations of government institutions at the international, state and local levels.
2. Compare and contrast the different motivations and constraints underlying political behavior.
3. Explain the difference between developed and developing countries, the challenges they face and formulate predictions of their future behavior.

Special Program Information

As soon as possible students are recommended to access curriculum requirements of possible transfer institutions. This program provides four electives which can be used to tailor student needs to that transfer institution.

Contact Person

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¹ Students must take six credits of one language

* See individual languages under Course Descriptions for requisites on placement.

² The following laboratory science courses are recommended for non-science majors:
BIO-106, BIO-140, CHM-140, PHY-103

LIBERAL ARTS AND SCIENCE Law, Government & Politics Option

Degree: Associate in Arts
College Code: GOV.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
POL-101	Introduction to Political Science	3
MTH.....	Mathematics General Education Elective	3
.....	Language General Education Elective ¹	3
		15
First Year/Second Semester		
ENG-102	English Composition II	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
POL-103	American Federal Government	3
.....	Language General Education Elective ¹	3
.....	Humanities General Education Elective (not a History or Language course)	3
HPE....	Health & Exercise Science Elective	1
		16
Second Year/First Semester		
HIS-121	U.S. History I	3
SPE-102	Public Speaking	3
.....	Laboratory Science General Education Elective ²	4
.....	Technology General Education Elective	3
.....	Free Elective	3
		16
Second Year/Second Semester		
HIS-122	U.S. History II	3
POL.....	Political Science Course or	
POL-121	Political Science Co-op	3
MTH.....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ²	3/4
.....	Diversity General Education Elective	3
.....	Free Elective	3
		15/16
Total Minimum Credits		63

Program Description

This transfer program is for students with a high interest in and an aptitude for science and mathematics. The program prepares students for transfer into four-year colleges or universities primarily as preparation for a pre-professional course of study in such areas as medicine, dentistry, and physical therapy.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work in mathematics and science.
- To ensure transferability of course work to a baccalaureate program.

Program Student Learning Outcomes

At the end of the program the graduate will be able to

1. Utilize tools of written and oral expression.
2. Analyze the historical process and the interaction of political, social and economic institutions that affect change in world civilization through time.
3. Speak, write, read and comprehend a foreign language and describe the cultural context for that language.
4. Utilize the vocabulary and tools for inquiry in introductory courses in a variety of academic areas.

Employment Opportunities

- Education
- Natural sciences
- Engineering
- Decision science and operations research
- Transfer opportunities in pure and applied mathematics, statistics, biology and chemistry
- Transfer health career programs such as pre-medical, pre-dental and physical therapy

Contact Person

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Liberal Arts and Science

Degree: Associate in Arts
 College Code: LAS.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
MTH.....	Mathematics General Education Elective	3
.....	Language General Education Elective ¹	3
.....	Social Science General Education Elective	3
		15
Second Semester		
ENG-102	English Composition II	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
.....	Technology General Education Elective	3
.....	Language General Education Elective ¹	3
.....	Humanities General Education Elective (not a History or Language course)	3
HPE.....	Health & Exercise Science Elective	1
		16
Second Year/First Semester		
SPE-102	Public Speaking	3
.....	Laboratory Science General Education Elective ²	4
.....	Diversity General Education Elective	3
.....	Social Science General Education Elective	3
.....	Liberal Arts Elective	3
		16
Second Semester		
MTH.....	Mathematics General Education Elective	
.....	Laboratory Science General Education Elective ²	3/4
.....	Liberal Arts Elective	3
.....	Liberal Arts Elective	3
.....	Free Elective	3
.....	Free Elective	3
		15/16
Total Minimum Credits		62

¹ Students must take six credits of one language

* See individual languages under Course Descriptions for requisites on placement.

² The following laboratory science courses are recommended for non-science majors: BIO-106, BIO-140, CHM-140, PHY-103

Program Description

This transfer program is for students with a high interest in and an aptitude for science and mathematics. The program prepares students for transfer into four-year colleges or universities primarily as preparation for a pre-professional course of study in such areas as medicine, dentistry, and physical therapy.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work in mathematics and science.
- To ensure transferability of course work to a baccalaureate program.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Utilize tools of written and oral expression.
2. Execute basic laboratory techniques.
3. Apply mathematical skills to data interpretation and problem solving.
4. Explain scientific principles and apply scientific reasoning.

Employment Opportunities

- Education
- Natural sciences
- Engineering
- Decision science and operations research
- Transfer opportunities in pure and applied mathematics, statistics, biology and chemistry
- Transfer health career programs such as pre-medical, pre-dental and physical therapy

Contact Person

Dr. Susan Choi
Math, Science & Health Careers
(856) 227-7200, ext. 4110
E-mail: schoi@camdencc.edu

Recommendations

Students should select courses according to the needs of the transferring institution.

Liberal Arts and Science

Degree: Associate in Science
College Code: LAS.AS

Code	Course	Credits
First Year/First Semester		
Choose two of the following Laboratory Sciences:		
BIO-111	Biology I - Science or	
CHM-111	Chemistry I - Science or	
PHY-101	Physics I	8
MTH-125	College Algebra & Trigonometry or	
MTH-140	Calculus I	4
ENG-101	English Composition I	3
		15
Second Semester		
Choose two of the following Laboratory Sciences:		
BIO-112	Biology II - Science or	
CHM-112	Chemistry II - Science or	
PHY-102	Physics II	8
MTH-140	Calculus I or	
MTH-150	Calculus II	4
ENG-102	English Composition II	3
		15
Second Year/First Semester		
MTH.....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective	3/4
MTH.....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective	3/4
.....	Social Science General Education Elective ¹	3
.....	Diversity: Humanities General Education Elective ¹	3
HIS.....	History General Education Elective ¹	3
		15/17
Second Semester		
MTH.....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective or	
.....	Free Elective ¹	3/4
MTH.....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective or	
.....	Free Elective ¹	3/4
.....	Social Science General Education Elective	3
HIS.....	General Education Elective ¹	3
.....	Humanities General Education Elective ¹	3
		15/17
Total Minimum Credits		60

¹ Select electives based on requirements of Transfer Institution

Program Description

This program constitutes the first two years of a traditional four-year curriculum. It is designed for students with a strong interest in mathematics and its applications, who plan to transfer to a four-year college or university as a mathematics major in a related field. Students gain experience in the use of graphing calculators and computer software. Graduates are highly competitive as mathematics majors at four-year institutions.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for mathematics.
- To ensure transferability of course work to a baccalaureate program in mathematics, engineering, computer science or math education.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Solve mathematical problems both computationally and analytically.
2. Apply mathematical concepts to solve applied problems in science, business, engineering, and technology fields.
3. Use technological tools, such as graphing calculators or computers, to analyze and solve mathematical and applied problems.
4. Follow a logical, symbolic argument and apply the concept of proof, as it relates to mathematical results.

Program Information

The entry-level math course for the Mathematics Option is Calculus I (MTH-140). Please note that a solid foundation in algebra and trigonometry is essential for success in Calculus I. Students in need of additional training prior to Calculus I have the option of taking the Pre-Calculus I (MTH-120) and Pre-Calculus II (MTH-130) sequence or the faster-paced College Algebra & Trigonometry (MTH-125).

Employment Opportunities

- Computer science
- Economics and actuarial sciences
- Education
- Engineering
- Management science and operations research
- Natural sciences

Contact Persons

Professor, Penny Luczak, Chair
(856) 227-7200, ext.4674
E-mail: pluczak@camdencc.edu

Highlights

The top four area transfer universities for mathematics majors are Rowan, Rutgers, Drexel and Temple. Transfer institutions may specify individual requirements. Faculty advisors in Math are available to you in Taft 101.

Visit our Web site at
www.camdencc.edu/departments/math

LIBERAL ARTS AND SCIENCE Mathematics Option

Degree: Associate in Science
College Code: MTH.AS

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
BIO-111	Biology I - Science or	
CHM-111	Chemistry I Science	4
HIS-101	World Civilization I	3
MTH-140	Calculus I	4
.....	Social Science General Education Elective ¹	3
		17
Second Semester		
ENG-102	English Composition II	3
BIO-112	Biology II - Science or	
CHM-112	Chemistry II Science	4
MTH-129	Discrete Mathematics	4
MTH-150	Calculus II	4
.....	Humanities General Education Elective	3
		18
Second Year/First Semester		
MTH-145	Linear Algebra	4
MTH-210	Calculus III	4
PHY-201	Physics III	4
HPE.....	Health & Exercise Science Elective	1
		13
Second Semester		
CSC-121	Structured Programming (C++)	3
MTH-220	Differential Equations	4
PHY-202	Physics IV	4
.....	Free Elective ²	3
		14
	Total Minimum Credits	62

¹ Secondary education majors should take Basic Psychology (PSY-101) for the social science general education elective

² Educational Psychology (PSY-103) or Historical Trends in American Education (EDU-101) is recommended for the free elective.

Program Description

The Camden County College music program delivers a curriculum of written, aural and piano theory designed to help each student develop mature skills in analysis, composition and ear training. In addition, after three semesters of ensemble performance and private lessons, each student participates in the development and implementation of a music recital.

Program Goals

- To prepare students to demonstrate beginning competencies in music.
- To prepare students to demonstrate stage presence, concert acumen, and develop the confidence that comes as a result of successful concert presentation.
- To provide students with the information necessary to develop the essential technical skills on instruments or voices through private instruction.
- To obtain concert production skills through participation in the preparation of concerts; i.e., public relations, ticket sales, stage and auditorium preparation, facilities requests.
- To learn artistic and technical music competencies through observing professionals via our artist series and those of area colleges and public theatres.
- To prepare students to evaluate their own musical growth and development.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Perform, analyze, dictate and discuss an advanced repertoire of music.
2. Perform in piano, choral and ensemble.
3. Present a collegiate recital showcasing a variety of music and techniques.
4. Explain and apply music theory.

Employment Opportunities

- Composer/arranger
- Conductor
- Music librarian
- Music therapist
- Newspaper critic/reporter
- Producer
- Professional musician/recording artist
- Sound mixer
- Teacher- elementary, secondary, post secondary, and studio
- Tuner/technician/instrumental repair

Contact Person

Professor Mike Billingsley
(856) 227-7200, ext. 4563
E-mail: mbillingsley@camdencc.edu

LIBERAL ARTS AND SCIENCE Music Option

Degree: Associate in Arts
College Code: MUS.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
.....	Language General Education Elective ¹	3
.....	Social Science General Education Elective	3
.....	Technology General Education Elective	3
MUS-161	College Choir I or	
MUS-162	College Choir II or	
MUS-263	College Choir III or	
MUS-264	College Choir IV	1
		16
Second Semester		
ENG-102	English Composition II	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
MUS-103	Intermediate Music Lessons	1
MUS-104	Aural Theory I	2
MUS-123	Music Theory I	3
MUS-125	Class Piano I	1
MUS.....	Ensemble Elective	1
.....	Language General Education Elective ¹	3
		17
Second Year/First Semester		
MUS-105	Advanced Music Lessons I	1
MUS-124	Music Theory II	3
MUS-200	Aural Theory II	2
MUS-201	Class Piano II	1
MUS.....	Ensemble Elective	1
.....	Laboratory Science General Education Elective ²	4
MTH.....	Mathematics General Education Elective	3
		15
Second Semester		
MUS-202	Advanced Music Lessons II	1
SPE-102	Public Speaking	3
.....	Social Science General Education Elective	3
MTH.....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ²	3/4
.....	Diversity General Education Elective	3
.....	Humanities General Education Elective ³	3
	(not a History or Language course)	16/17
Total Minimum Credits		64

¹ Must take six credits in one language. It is recommended that music majors take six credits in German or Italian.

* See individual languages under Course Descriptions for requisites on placement.

² The following laboratory science courses are recommended for non-science majors: BIO-106, BIO-140, CHM-140, PHY-103

³ ENG-271 World Literature I is a recommended course.

Highlights

Students have the opportunity to perform with music organizations. The program transfers to baccalaureate programs in music.

Program Description

The registered nurse (RN) is a health care professional academically and clinically prepared to care for patients in a variety of health care settings. Nurses help people reach their full potential for optimal health maintenance and wellness throughout the life span.

Program Goals

- To earn an Associate in Science degree from the College and a Diploma in Nursing from Helene Fuld School of Nursing.
- To prepare students to successfully pass the NCLEX-RN exam for licensure as a registered nurse.
- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for nursing.
- To ensure transferability of course work to a baccalaureate program in nursing.

Program Student Learning Outcomes

- At the end of the program the graduate will be able to:
1. Apply critical thinking skills in making clinical decisions.
 2. Apply the nursing process in the delivery of care.
 3. Utilize effective communication to collaborate in the management of care.
 4. Integrate evidence-based concepts, theories and principles to provide safe nursing care.
 5. Evaluate the impact of ethical, legal and professional standards on the delivery of healthcare.
 6. Demonstrate role behaviors of the nurse as caregiver, teacher, advocate, counselor, and care manager in the delivery of care
 7. Use current technology to maximize positive outcomes.

Special Program Requirements

- Graduation from an approved secondary school or a GED.
- Submission of a high school transcript or a GED certificate.
- Completion of the College basic skills requirements.
- Completion of high school biology and chemistry with a "C" or better (Equivalent courses may be taken at CCC).
- Interview with a member of the Helene Fuld School of Nursing Admissions Committee.
- Submission of two letters of reference.
- Submission of NET scores.
- Minimum SAT score of 450 math/450 verbal if taken within the past five years.
- Minimum GPA of 2.5.
- To apply to the nursing school, a minimum of three of the required five prerequisites must be completed with at least one of the three being Anatomy & Physiology I or Microbiology I. Completion of all prerequisites is required before to enrolling in the first nursing course.

For more information, visit www.helenefuld.virtua.org.

Accreditation

Helene Fuld School of Nursing is approved by the New Jersey Board of Nursing and is accredited by the National League for Nursing Accrediting Commission (NLNAC).

Employment Opportunities

- Hospitals
- Clinics
- Home care agencies
- Long term care
- Hospices

Contact Persons

Marlene Lazarus, Nursing Coordinator
(856) 227-7200 ext 4566
E-mail: mlazarus@camdencc.edu
Cheryl Young, Nursing/Allied Health Advisor
(856) 227-7200, ext. 4567
E-mail: cyoung@camdencc.edu
Nursing School Contact
Patricia White
(856) 481-9082
E-mail: admissionshfsn@virtua.org

NOTICE: Clinical placements may be a required part of the curriculum and a requirement for graduation. Clinical placements may require a criminal background check, health clearance and/or drug testing before participation is allowed. Clinical sites may deny a student's participation in the event of a positive finding. Individuals who have been convicted of a felony or misdemeanor may be denied certification or licensure as a health professional. Information regarding eligibility may be obtained from the appropriate credentialing body.

Adult learners or recent high school graduates without SAT scores will be evaluated on past and current college course work. Direct articulation into an RN-BSN program is available to graduate nurses.

NURSING Helene Fuld Cooperative Nursing Program

Degree: Associate in Science, Diploma in Nursing
College Code: NHF.AS

Code	Course	Credits
First Semester		
BIO-211	Anatomy & Physiology I	4
BIO-221	Microbiology I	4
FNS-105	Introduction to Nutrition	3
PSY-101	Basic Psychology	3
SOC-101	Introduction to Sociology	3
		17
Second Semester		
BIO-212	Anatomy & Physiology II	4
ENG-101	English Composition I	3
NHF-120	Foundations for Nursing Management of Human Responses	6
NHF-121	Health Assessment Across the Lifespan	2
		15
Third Semester		
CHM-101	General Chemistry I	4
NHF-130	Management of Human Responses for Selected Health Concerns	10
NHF-131	Introduction to Nursing Informatics	1
		15
Fourth Semester		
ENG-102	English Composition II	3
NHF-220	Management of Human Responses for Multiple Health Concerns	10
		13
Fifth Semester		
NHF-230	Management of Human Responses for Multiple and/or Complex Health Concerns	10
NHF-231	Issues & Trends in Professional Nursing	2
PHL-232	Biomedical Ethics	3
		15
Total Minimum Credits		75

Students should possess a working knowledge of computer applications which permits/supports the successful production of a word-processed document, and the ability to locate and retrieve information from the Internet. Computer Literacy (CSC-101) is a recommended course with this content.

Program Description

The registered nurse (RN) is a health care professional academically and clinically prepared to care for patients in a variety of health care settings. Nurses help people to reach their full potential for optimal health maintenance and wellness throughout their life span.

Program Goals

- To earn an Associate in Science degree from the College and a Diploma in Nursing from Our Lady of Lourdes School of Nursing.
- To prepare students to successfully pass the NCLEX-RN exam for licensure as a registered nurse.
- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for nursing.
- To ensure transferability of course work to a baccalaureate program in nursing.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Synthesize concepts, theories and research from the physical and social sciences and nursing.
2. Discuss ethical and legal principles in the practice of nursing.
3. Explain methods of achieving optimal level of wellness throughout the lifecycle.
4. Perform technical procedures of nursing.

Special Program Requirements

- Graduation from an approved secondary school or a GED.
- Submission of a high school transcript or a GED certificate.
- Completion of the College basic skills requirements.
- Completion of high school biology and chemistry with a "C" or better (Equivalent courses may be taken at CCC).
- Interview with a member of the Our Lady of Lourdes Nursing School Admissions Committee.
- Submission of two letters of reference.
- Submission of NET scores.
- SAT composite score of 900 if taken within the past five years.
- Minimum GPA of 2.5.

For more information, visit www.ololnursing.com.

Accreditation

Our Lady of Lourdes School of Nursing is approved by the New Jersey Board of Nursing and is accredited by the Department of Diploma Programs of the National League for Nursing Accrediting Commission (NLNAC).

Employment Opportunities

- Hospitals
- Clinics
- Home care agencies
- Long term care
- Hospices

Contact Persons

Marlene Lazarus, Nursing Coordinator
(856) 227-7200 ext 4566
E-mail: mlazarus@camdencc.edu
Cheryl Young, Nursing/Allied Health Advisor
(856) 227-7200, ext. 4567
E-mail: cyoung@camdencc.edu
Nursing School contact: Marie Cebollero
(856) 757-3726
E-mail: cebollerom@lourdesnet.org

Program Requirements

All students must be CPR certified (BLS for health care professionals) before beginning Nursing I. Students not yet accepted into Our Lady of Lourdes School of Nursing must meet CCC prerequisite requirements for Anatomy & Physiology I & Microbiology I. Humanities elective may be taken at any time prior to Nursing IV.

Our Lady of Lourdes Cooperative Nursing Program

NURSING

Degree: Associate in Science, Diploma in Nursing
College Code: NOL.AS

Code	Course	Credits
First Year/Fall Semester		
NOL-100	Introduction to Nursing I ¹	2
BIO-211	Anatomy & Physiology I ² or	
BIO-117	Basic Anatomy & Physiology I	4
CHM-101	General Chemistry I	4
ENG-101	English Composition I	3
PSY-101	Basic Psychology	3
		16
Spring Semester		
BIO-212	Anatomy & Physiology II ² or	
BIO-118	Basic Anatomy & Physiology II	4
BIO-221	Microbiology I ² or	
BIO-121	Basic Microbiology	4
ENG-102	English Composition II	3
MTH-111	Elements of Statistics I	3
		14
Second Year/Fall Semester		
NOL-200	Nursing I	6
PSY-109	Developmental Psychology	3
SOC-101	Introduction to Sociology	3
FNS-105	Introduction to Nutrition	3
		15
Spring Semester		
NOL-210	Nursing II	8
PHL-232	Biomedical Ethics	3
NOL-220	Pharmacology for Nursing	3
		14
Third Year/Fall Semester		
NOL-300	Nursing III	9
.....	Humanities General Education Elective	3
		12
Spring Semester		
NOL-310	Nursing IV	9
NOL-320	Trends and Issues in Nursing	3
		12
Total Minimum Credits		83

¹NOL-100 is open to all Camden County College students and available both fall & spring semesters

²Please check with transfer institution. Students must meet Camden County College pre-requisite for BIO-211 and BIO-221

Program Description

This program is designed for students who are seeking to transfer to a health science related baccalaureate program. The successful student is academically prepared for transfer into the junior year of a four-year college or university.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for the first two years of a baccalaureate program in nursing.
- To ensure transferability of course work to a baccalaureate program in nursing and related science-based health careers.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Communicate in both written and oral formats.
2. Apply the scientific method of inquiry to analyze problems and draw conclusions from evidence and data.
3. Identify resources, obtain and critically evaluate information.
4. Model ethical professional behaviors in the role of a health care professional.

Special Program Requirement

Graduation from an approved secondary school or a GED is required.

Contact Person

Latasha Dyer, Secretary
(856) 227-7200, ext. 4359

E-mail: ldyer@camdencc.edu

Marlene Lazarus, Nursing Coordinator
(856) 227-7200 ext 4566

E-mail: mlazarus@camdencc.edu

Cheryl Young, Nursing/Allied Health Advisor
(856) 227-7200, ext. 4567

E-mail: cyoung@camdencc.edu

Liberal Arts and Science: Pre-Nursing Option

NURSING

Degree: Associate in Science
College Code: PRN.AS

Code	Course	Credits
First Year/First Semester		
BIO-111	Biology I - Science or	
.....	Free Elective	3/4
CHM-101	General Chemistry I	4
ENG-101	English Composition I	3
PSY-101	Basic Psychology	3
HPE-181	Basic Life Support "C"	1
		14/15
Second Semester		
CHM-102	General Chemistry II	4
ENG-102	English Composition II	3
MTH-111	Elements of Statistics	3
HIS-101	World Civilization I or	
ENG-271	World Literature I	3
BIO-211	Anatomy & Physiology I ¹ or	
BIO-117	Basic Anatomy & Physiology I ¹	4
		17
Second Year/First Semester		
BIO-212	Anatomy & Physiology II ¹ or	
BIO-118	Basic Anatomy & Physiology II ¹	4
PSY-109	Developmental Psychology	3
PHL-232	Biomedical Ethics	3
.....	Free Elective	3
		13
Second Semester		
BIO-221	Microbiology I ¹ or	
BIO-121	Basic Microbiology ¹	4
FNS-105	Introduction to Nutrition	3
CSC-101	Computer Literacy	3
SOC-101	Introduction to Sociology	3
.....	Free Elective ²	3
		16
	Total Minimum Credits	60

¹ Please check with transfer institutions. Students must meet Camden County College prerequisite for BIO-211 and BIO-221

Highlights

Students graduating in this option are prepared for programs in various allied health disciplines, such as physical therapy, physician's assistant, or occupational therapy. There are articulation agreements with LaSalle University, Widener University, The College of New Jersey, Thomas Jefferson University, Rutgers College and NJIT/UMDNJ.

Program Description

In today's visual culture it is important to understand visual communication. The famous photographer Laszlo Moholy –Nagy said in 1934, "The illiterate of the future will be the person ignorant of the use of the camera as well as the pen." The program emphasizes learning how to communicate ideas visually as well as learning the technical aspects of the medium. The program provides: all phases of camera operation; basic black and white darkroom techniques; studio experience; and experience with current digital imaging technology. The facilities include: a well equipped darkroom with 18 enlargers that are able to print up to 4X5 negatives; a fully equipped studio with both hot lights and flash equipment; medium format and large format cameras for student use. We also have a digital photography lab that includes the latest computers, image editing software, scanners and printers.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for a photography major.
- To ensure transferability of course work to four-year colleges and universities.
- To prepare students to develop an individual perspective about photography.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Synthesize the fundamental concepts of photography.
2. Produce high quality photographic prints.
3. Create a cohesive visual statement.
4. Critically evaluate photographs.

Employment Opportunities

- Artist
- Advertising photographer
- Commercial photographer
- Photojournalist
- Photo lab technician

Contact Person

Professor Fred Herr
(856) 227-7200, ext. 4389
E-mail: fherr@camdenc.edu

Highlights

This program prepares students for careers in photography and transfers to four-year institutions.

LIBERAL ARTS AND SCIENCE Photography Option

Degree: Associate in Arts
College Code: PHO.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
ART-160	Two Dimensional Design	3
PHO-101	Photography I	3
.....	Technology General Education Elective	3
		15
Second Semester		
ENG-102	English Composition II	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
PHO-102	Photography II	3
.....	Social Science General Education Elective	3
.....	Language General Education Elective ¹	3
HPE	Health & Exercise Science Elective	1
		16
Second Year/First Semester		
PHO-226	Digital Photography	3
SPE-102	Public Speaking	3
MTH ...	Mathematics General Education Elective	3
.....	Language General Education Elective ¹	3
.....	Diversity General Education Elective	3
		15
Second Semester		
PHO-221	Studio Photography	3
MTH ...	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ² or	
.....	Technology General Education Elective	3/4
.....	Laboratory Science General Education Elective ²	4
.....	Humanities General Education Elective ³	3
.....	(Not a History or Language course)	
.....	Social Science General Education Elective	3
		16/17
Total Minimum Credits		62

¹ Students must take six credits of one language

^{*} See individual languages under Course Descriptions for requisites on placement.

² Chemistry of Art Materials (CHM-150) is recommended for Photography majors

Program Description

This program is designed for students with a strong interest either in physics, engineering, or photonics. The credits in this program are transferable to four-year colleges for majors in physics and any branch of engineering.

Program Goals

- To provide students with a foundation in general education with a concentration of course work appropriate for a physics major.
- To instill in the students a commitment to lifelong learning which fosters in them a desire to transfer credits to a baccalaureate program in physics, astronomy or any branch of engineering.

Special Course Requirement

Mathematics at the level of Intermediate Algebra (MTH-109) is a prerequisite for this program.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Explain the fundamental concepts of physics.
2. Design and conduct experiments demonstrating physics principles.
3. Apply mathematics to solve physics application problems.

Employment Opportunities

- Advanced physics
- Astronomy
- Material science
- Lasers
- Fiber optics
- Education

Contact Person

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 (856) 227-7200, ext. 4474
 E-mail: rkolluri@camdencc.edu
 Professor James Hudgings, ext. 4387
 E-mail:jhudgings@camdencc.edu

Highlights
 Students of this program have successfully transferred to Rowan, Rutgers, Temple Universities and other four-year institutions.

LIBERAL ARTS AND SCIENCE Physics Option

Degree: Associate in Science
 College Code: PHY.AS

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-101	World Civilization I	3
PHY-101	Physics I ¹ or	
CSC-101	Computer Literacy	3/4
MTH-140	Calculus I	4
.....	Social Sciences General Education Elective	3
		16/17
Second Semester		
ENG-102	English Composition II	3
PHY-102	Physics II ¹ or	
CIS-206	Advanced Computer Concepts/Applications	3/4
MTH-150	Calculus II	4
.....	Humanities General Education Elective	3
HPE	Health & Exercise Science Elective	1
		14/15
Second Year/First Semester		
PHY-201	Physics III	4
CHM-111	Chemistry I - Science or	
BIO-111	Biology I - Science	4
LFO-101	Introduction to Photonics & Photonics Safety	4
.....	Social Science General Education Elective ²	3
HPE	Health & Exercise Science Elective	1
		16
Second Semester		
PHY-202	Physics IV	4
MTH-220	Differential Equations	4
CHM-112	Chemistry II - Science or	
BIO-112	Biology II - Science	4
MTH-210	Calculus III	4
		16
	Total Minimum Credits	62

¹ A student who is a high school graduate with two years of Physics will choose the alternate courses.

Program Description

Prospective pharmacists should have scientific aptitude, good communication skills, and a desire to help others. They also must be conscientious and pay close attention to detail because the decisions they make affect human lives.

Very good employment opportunities are expected for pharmacists over the 2002-12 period because the number of degrees granted in pharmacy are expected to be less than the number of job openings created by employment growth and the need to replace pharmacists who retire or otherwise leave the occupation. Recently, enrollments in pharmacy programs are rising as more students are attracted by high salaries and good job prospects. Despite this increase in enrollments, pharmacist jobs should still be more numerous than those seeking employment.

Pharmacy, a rapidly growing profession, is an integral part of today's health care programs. Pharmacists work in both commercial pharmacies as well as hospital pharmacies and are often the only ones aware of the complete history of the patient's medication. The pharmacist also plays a critical role in communicating the action and side effects of medication.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work in biology and chemistry.
- To ensure transferability of course work to a baccalaureate program for continuing study of the pharmacy profession.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Analyze and synthesize data to form a conclusion.
2. Apply the basic concepts of chemistry, including the structure and function of molecules.
3. Explain how pharmaceutical agents effect human physiology.
4. Communicate scientific information in both written and oral formats.

Employment Opportunities

- Hospital pharmacy
- Pharmaceutical industry
- Retail pharmacy

Contact

Dr. Susan Choi, Chair
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LIBERAL ARTS AND SCIENCE Pre-Pharmacy Option

Degree: Associate in Science
College Code: PPH.AS

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
BIO-111	Biology I - Science	4
CHM-111	Chemistry I - Science	4
MTH-140	Calculus I	4
		15
Second Semester		
ENG-102	English Composition II	3
BIO-112	Biology II - Science	4
BIO-211	Anatomy & Physiology I	4
CHM-112	Chemistry II - Science	4
.....	Humanities General Education Elective	3
		18
Second Year/First Semester		
BIO-212	Anatomy & Physiology II	4
CHM-221	Organic Chemistry I	4
PHY-101	Physics I ¹ or	
PHY-201	Physics III ¹	4
HIS-101	World Civilization I or	
ENG-271	World Literature I	3
HPE.....	Health & Exercise Science Elective	1
		16
Second Semester		
CHM-222	Organic Chemistry II	4
PHY-102	Physics II ¹ or	
PHY-202	Physics IV ¹	4
PSY-101	Basic Psychology	3
.....	Social Science General Education Elective	3
HPE.....	Health & Exercise Science Elective	1
		15
	Total Minimum Credits	64

¹ Consult with Transfer Institution.

Highlights

The average national salary for pharmacists is \$70,000 a year. Graduates of this program have been accepted into pharmacy programs at Temple University and the University of the Sciences.

Program Description

This program provides students with a concentration of course work in the science of psychology appropriate for a psychology major in addition to a foundation in general education.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for a psychology major.
- To ensure transferability of course work to four-year colleges and universities.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Describe major historical contributors to the discipline of psychology.
2. Compare and contrast different schools of psychology.
3. Identify major specialty fields in psychology.
4. Describe the methods of research used in psychology.

Special Program Information

Students in this program may select any psychology course to fulfill a psychology elective or they may select a thematic cluster of courses such as: Life-Span-related courses (PSY 105,-106,-107), Mental Health-related courses (PSY 102,-104,-108); or, Work-related courses (PSY 110,-111,-112).

Contact Person

Dr. William H. Curtis, Chair
(856) 227-7200, ext. 4480
E-mail: wcurtis@camdencc.edu.

¹ French, German, Italian, Russian or Spanish Electives are recommended.

^{*} See individual languages under Course Descriptions for requisites on placement.

² Math-107 Math for Liberal Arts Majors is recommended for those planning to transfer to Rutgers University-Camden.

³ Take a Social Science General Education Elective other than a Psychology course to meet this requirement

⁴ ENG-271-World Literature I is recommended.

⁵ Any Psychology course other than PSY-101

⁶ The following laboratory science courses are recommended for non-science majors:
BIO-106, BIO-140, CHM-140, PHY-103

Highlights

Qualified students in the program are encouraged to join the College's Chapter of the Psi Beta National Honor Society in Psychology which is a member of the Association of College Honor Societies.

LIBERAL ARTS AND SCIENCE Psychology Option

Degree: Associate in Arts
College Code: PSY.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
PSY-101	Basic Psychology	3
.....	Language General Education Elective ¹	3
MTH.....	Mathematics General Education Elective ²	3
		15
Second Semester		
ENG-102	English Composition II	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
PSY.....	Psychology Course ⁵	3
.....	Technology General Education Elective	3
.....	Language General Education Elective ¹	3
HPE.....	Health & Exercise Science Elective	1
		16
Second Year/First Semester		
SPE-102	Public Speaking	3
PSY.....	Psychology Course ⁵	3
.....	Laboratory Science General Education Elective ⁶	4
.....	Diversity: General Education Elective	3
.....	Social Sciences General Education Elective ³ (Not a Psychology course)	3
		16
Second Semester		
MTH-111	Elements of Statistics I	3
PSY.....	Psychology Course ⁵	3
.....	Humanities General Education Elective ⁴ (Not a History or Language course)	3
.....	Fee Elective	3
.....	Fee Elective	3
		15
Total Minimum Credits		62

Program Description

The program is designed to help students demonstrate beginning competencies in speech and theatre. The program focuses on the performance aspects of theatre and on the technical aspects of set and scenery design, construction, stage management, and directing.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for a theater major.
- To ensure transferability of course work to four-year colleges and universities.
- To develop the students voices, bodies, and creative imagination.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Discuss the culture of theater including the ethics, financial implications and necessary commitment
2. Identify strengths and weaknesses of their voice, bodies and creative imaginations
3. Produce a play
4. Define and apply the vocabulary of theater genres

Employment Opportunities

- Acting
- Directing
- Public relations
- Set designing
- Light design
- Stage managing

Contact Person

Professor Marjorie Sokoloff
(856) 227-7200, ext. 4737
E-mail: msokoloff@camdencc.edu

Highlights

Students participate immediately in all productions. Theatre majors are required to audition at the College. Graduates transfer to colleges offering baccalaureate programs in speech, theatre, or dance.

LIBERAL ARTS AND SCIENCE Speech and Theatre Option

Degree: Associate in Arts
College Code: SPT.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
THE-131	Voice and Diction	3
THE-252	Stagecraft I	3
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
.....	Language General Education Elective ¹	3
MTH....	Mathematics General Education Elective	3
		18
Second Semester		
ENG-102	English Composition II	3
THE-141	Acting I	3
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
.....	Language General Education Elective ¹	3
.....	Humanities General Education Electives ² (Not a History or Language course)	3
		15
Second Year/First Semester		
SPE-102	Public Speaking	3
THE-233	Playwriting	3
.....	Social Science General Education Elective	3
.....	Laboratory Science General Education Elective ³	4
.....	Diversity General Education Elective	3
		16
Second Semester		
THE-242	Acting II	3
THE-252	Children's Theatre	3
.....	Social Science General Education Elective	3
.....	Technology General Education Elective	3
MTH....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ³	3/4
		15/16
Total Minimum Credits		64

¹ Must take six credits in one language

*See individual languages under Course Descriptions for requisites on placement

² Theatre Appreciation (THE-121) is recommended.

³ The following laboratory science courses are recommended for non-science majors:
BIO-106, BIO-140, CHM-140, PHY-103

Program Description

The study of speech today includes all forms of interpersonal, small group, organizational, intercultural and international communication.

The 20th century has seen the field of speech and rhetoric grow to include communication in the family, mass media, advertising, political science, politics, law, corporate training, diplomacy and education.

The 21st century will see a growing demand for educated men and women who can communicate verbally as individuals and as professionals, in society and business, nationally and internationally.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for a speech major.
- To ensure transferability of course work to four-year colleges and universities.
- To develop a system of self-assessment and establish personal career goals and objectives to enhance personal growth.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Organize and deliver their thoughts orally.
2. Use the vocal instrument appropriate to context.
3. Apply classic rules of rhetoric to speech.
4. Present themselves using standard communication etiquette.

Employment Opportunities

- Announcing
- Broadcasting
- Communications consulting
- Law
- Marketing
- Teaching

Contact Persons

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Professor William Long
(856) 227-7200, ext. 4259

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Professor Karen Hamburg
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¹ Must take six credits in one language

² See individual languages under Course Descriptions for requisites on placement

³ The following Laboratory Science Courses are recommended for non-science majors:
BIO-106, BIO-140, CHM-140, PHY-103

⁴ COM-145 Intercultural Communication is recommended for Speech Majors

LIBERAL ARTS AND SCIENCE Speech and Theatre Option: Speech Track

Degree: Associate in Arts
College Code: SPE.AA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
THE-131	Voice and Diction	3
HIS-111	Western Civilization I or World Civilization I	3
MTH.....	Mathematics General Education Elective	3
.....	Humanities General Education Electives ⁴ (Not a History or Language course)	3
		15
Second Semester		
ENG-102	English Composition II	3
COM-101	Influence of Mass Media	3
SPE-102	Public Speaking	3
HIS-112	Western Civilization II or World Civilization II or World Civilization III	3
.....	Laboratory Science General Education Elective ²	4
		16
Second Year/First Semester		
SPE-210	Oral Interpretation	3
SPE-211	Interpersonal Communication	3
.....	Language General Education Elective ¹	3
MTH.....	Mathematics General Education Elective or Laboratory Science General Education Elective ²	3/4
.....	Social Science General Education Elective	3
HPE.....	Health & Exercise Science Elective	1
		16/17
Second Semester		
SPE-212	Small Group Communication	3
.....	Technology General Education Elective	3
.....	Language General Education Elective ¹	3
.....	Social Science General Education Elective	3
.....	Diversity General Education Elective ³	3
		15
	Total Minimum Credits	62

Sport Management

Degree: Associate in Science
College Code: SPM.AS

Program Description

The Sport Management program prepares students to receive an Associate in Science degree and transfer to a four-year school to major in sport management. Sport management is an all-encompassing term associated with the management of sport, fitness/wellness, and leisure recreation programs. An increased growth in competitive athletics, sport participation by all segments of society, and sport-related businesses has created a need for individuals trained in sport management.

Program Goals

- To prepare students for transfer to a four-year college or university for further study in sport management.
- To provide students with a foundation in general education.
- To prepare students with an understanding of the various career opportunities and areas of specialization within the field of Sport Management.
- To provide students with a successful work experience in sport management.
- To provide students with a foundation in basic accounting.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Explain the various careers in sports management.
2. Use critical analysis in solving problems and analyzing information as it relates to sports management.
3. Work effectively in a professional sport business environment
4. Explain basic business accounting practices and procedures.

Employment Opportunities

- Amateur competitive athletics
- Professional sports
- Sports agencies
- Municipal recreation and sports
- Sport merchandising
- Sport news media
- Health & fitness
- Resort recreation
- Specialized sport resorts & instructional programs

Contact Person

Dr. Nicholas DiCicco, Director
(856) 227-7200 ext. 4264
E-mail: ndicicco@camdencc.edu

Highlights

The DISCOVER guidance system reports that nationwide the demand for sport management graduates will grow at 29% rate through 2008 with an average income of about \$41,500 annually and a starting income of about \$29,000.

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
HPE-101	Introduction to Health & Exercise Science	3
HPE-102	Health & Wellness	3
ACC-104	Financial Accounting	3
.....	Laboratory Science General Education Elective ¹	4
		16
Second Semester		
ENG-102	English Composition II	3
HPE-195	Concepts of Individual and Dual Sports	3
ECO-101	Macroeconomics or	3
ECO-102	Microeconomics	3
.....	Laboratory Science General Education Elective ¹	4
.....	Free Elective	3
		16
Second Year/First Semester		
HPE-201	Introduction to Sport Management ²	3
MGT-102	Introduction to Management	3
MTH-111	Elements of Statistics I	3
PSY-101	Basic Psychology	3
HIS-101	World Civilization I	3
		15
Second Semester		
HPE-170	First Aid, Safety & Prevention of Injuries	3
HPE-209	Internship: Sport Management	1
SOC-101	Introduction to Sociology	3
.....	History General Education Elective	3
.....	Humanities General Education Elective	3
.....	Humanities: Literature General Education Elective	3
		16
Total Minimum Credits		63

¹Students are encouraged to consult transfer institution for appropriate lab science elective.

²This course is offered fall semester only.

Studio Art

Program Description

This fine arts degree in studio arts program prepares students for transfer into four-year art colleges as well as providing foundation art skills for those pursuing careers in the visual arts.

Program Goals

- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for an art major.
- To ensure transferability of course work to four-year colleges and universities.
- To communicate effectively in a visual manner.

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Discuss the history of western art.
2. Apply various techniques to the design and production of art.
3. Communicate in a visual manner.
4. Evaluate works of visual fine arts and design.

Contact Person

Professor Kay Klotzbach
 (856) 227-7200, ext. 4342
 E-mail: kklotzbach@camdencc.edu
 Professor Gregory Brellochs
 (856) 227-7200, ext. 4251
 E-mail: gbrellochs@camdencc.edu0

Degree: Associate of Fine Arts in Studio Art
 College Code: STA.AFA

Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
ART-111	Art History I	3
ART-123	Basic Drawing I - AFA	3
ART-165	Color Theory & Practice	3
ART-166	Two Dimensional Design – AFA	3
HPE...	Health & Exercise Science Elective	1
		16
First Year/Second Semester		
ENG-102	English Composition II	3
ART-112	Art History II	3
ART-124	Basic Drawing II - AFA	3
ART-167	Three Dimensional Design – AFA	3
.....	Studio Elective ²	3
.....	Social Science General Education Elective	3
		18
Second Year/First Semester		
ART-134	Life Drawing I	3
ENG-271	World Literature I or	
ENG-191	Myths of the World	3
PHO-230	Digital Photography - AFA	3
.....	Studio Elective ²	3
.....	Studio Elective ²	3
HPE.....	Health & Exercise Science Elective	1
		16
Second Year/Second Semester		
HIS...	History General Education Elective	3
.....	Studio Elective ²	3
.....	Studio Elective ²	3
.....	Humanities General Education Elective	3
MTH....	Mathematics General Education Elective or	
.....	Laboratory Science General Education Elective ¹	3/4
		15/16
Total Minimum Credits		65

¹ Chemistry of Art Materials (CHM-150 is recommended)

² STUDIO ELECTIVES
 (Student may choose five courses from this list)

PHO-103	Photography I - AFA
PHO-104	Photography II - AFA
ART-143	Sculpture I - AFA
ART 139	Mural Painting
ART 145	Painting I - AFA
ART-144	Sculpture II - AFA
ART 153	Ceramics and Pottery I - AFA
ART 154	Ceramics and Pottery II - AFA
ART 135	Life Drawing II
ART 136	Watercolor
ART 146	Painting II - AFA