



# Rowan College

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## SOUTH JERSEY



Cumberland Campus  
**2020 Academic Catalog**

# Welcome to Rowan College of South Jersey



***Frederick Keating, Ed.D.***  
***President***

It is my great pleasure to welcome you to the inaugural class of Rowan College of South Jersey — a new regional college, academically designed to transform higher education in New Jersey.

On July 1, 2019, Rowan College at Gloucester County and Cumberland County College merged to create South Jersey's first regional college. Together these two campuses offer more than 120 unique degrees and certificates, combining 100 years of experience to provide a variety of degree selections, cost-saving initiatives, and scholarship and internship opportunities, at one of the lowest tuition rates in the state. This pioneering, hybrid institution provides students with more choices, including the option to pursue advanced degrees at Rowan University and other four-year universities, without ever leaving the Rowan College of South Jersey campuses.

The merger of these two community colleges, in conjunction with an expanded 10-year premier partnership agreement with Rowan University, leads the way to a future filled with diverse, one-of-a-kind educational opportunities. Ambitious teenage students seeking a head start on their college studies can take classes and save money with high school dual enrollment programs, including Rowan High School Start and the High School Option Program (HSOP). Through exclusive programs like Rowan Choice and 3+1 degree offerings, students save substantially on their education and easily transition to Rowan University for a bachelor's degree. Academic and workforce-training programs ensure the availability of skilled employees, answering both professional and community needs.

With two campuses, increased program selections, a premier partnership with Rowan University, affordable tuition and numerous transfer routes, Rowan College of South Jersey offers students more advantages than ever before. Congratulations on choosing Rowan College as the place to begin writing your success story.

Frederick Keating, Ed.D.  
President

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## College Overview

Rowan College of South Jersey was established on July, 1, 2019, with the merger of Cumberland County College and Rowan College at Gloucester County. It is a comprehensive, two-year, dual-campus regional institution sponsored by the residents of Cumberland and Gloucester Counties through their respective Boards of Chosen Freeholders. The College is accredited by the Middle States Commission on Higher Education.

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

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

### **Cumberland County Board of Chosen Freeholders**

Joseph Derella, *Director*  
Darlene Barber, *Deputy Director/Educational Co-Liaison*  
George Castellini, *Educational Co-Liaison*  
Carol Musso  
Joseph V. Sparacio  
Jack Surrency  
Jim Quinn

### **Gloucester County Board of Chosen Freeholders**

Robert M. Damminger, *Director*  
Frank J. DiMarco, *Deputy Director*  
Lyman Barnes, *Education Liaison*  
Daniel Christy  
Jim Jefferson  
James J. Lavendar, Ed.D.  
Heather Simmons

### **State of New Jersey Vision for Higher Education**

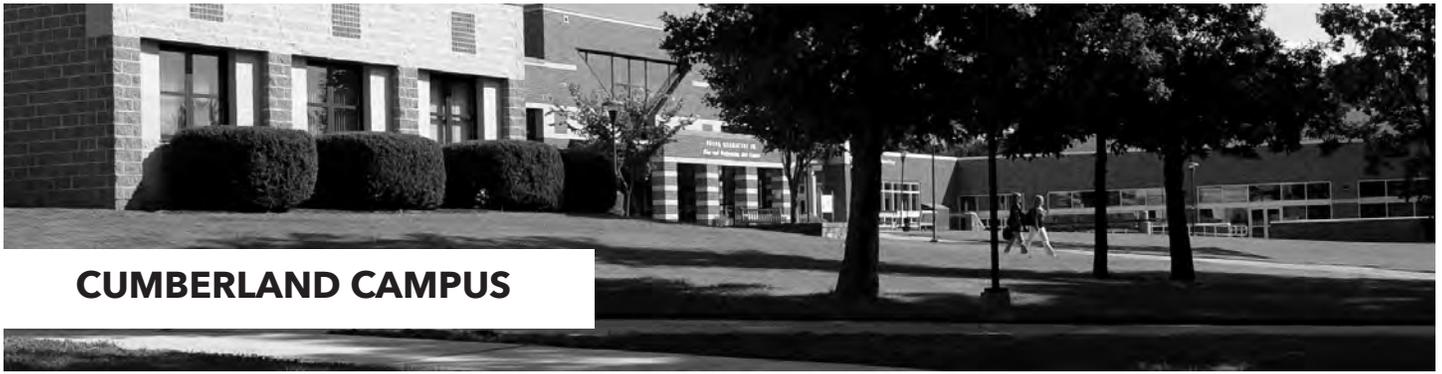
New Jersey and its colleges and universities embrace their shared responsibility to create and sustain a higher education system that is among the best in the world, enabling all people to achieve their maximum potential, fostering democratic principles, improving the quality of life and supporting the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

### **Rowan College of South Jersey Mission**

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

### **Rowan College of South Jersey Board of Trustees**

Gene J. Concordia, *Chairperson*  
Donna M. Perez, *Vice Chairperson*  
Ruby Love, *Treasurer*  
Jean L. DuBois, *Secretary*  
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Len Daws  
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Benjamin Griffith  
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Dr. George J. Scott  
Leslie White-Coursey  
Douglas J. Wills, Esq.  
Frederick Keating, Ed.D., *ex officio*



## CUMBERLAND CAMPUS

Rowan College of South Jersey maximizes educational opportunities for students with more than 120 combined, unique degree and certification programs, as well as more full-time faculty, more laboratories, and the potential for increased scholarships.

Rowan College of South Jersey's 90-acre Cumberland campus provides students and community residents with an outstanding learning environment.

- The Student Center is a modern one-stop facility for student services and activities, housing the offices of Enrollment Services, Financial Aid, Student Life and Athletics, in addition to a Barnes & Noble bookstore and cafeteria facilities.
- The Academic Building contains modern classrooms, a lecture hall, study areas, computer labs, a Wellness Center and Tutoring Center.
- The Phillip Alampi Science Center features well-equipped science labs, engineering classrooms and greenhouse facilities.
- The Paul Navone Healthcare Education Center boasts futuristic health care laboratories and modern, multifunctional classrooms.
- The open access Library houses reference materials, comprehensive online databases and computers with internet access, while offering group study rooms.
- The future Mechatronics Innovation Learning Lab (MILL) will contain state-of-the-art engineering technology training equipment, including a CAD/CAM computer lab, dedicated server room and a small-drone obstacle course.
- The Frank Guaracini Jr. Fine and Performing Arts Center is highlighted by the 500-seat Luciano Theatre which hosts student theatrical productions, concerts, local and world-class entertainment and cultural events.
- The George P. Luciano Family Center for Public Service and Leadership is a first-class conference center and events facility where organizations can conduct conferences, hold meetings and host banquets.
- The Shirlee and Bernard Brown University Center offers a convenient way for students to earn advanced degrees, close to home, through partnerships with respected senior institutions.
- The Arts & Innovation Center, located in Millville's Glasstown Arts District, is a spacious and modern facility housing the Clay College studio, art gallery and entrepreneurial space. It is equipped with educational and training classrooms, pottery wheels, kilns and a 3-D potter bot.
- The Paula J. Ring Education Center, located on Buck Street in Millville, houses the office of Workforce Development and classrooms used for allied health, advanced manufacturing and technical education training.

# Accreditation

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

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

- The Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs, 254000 U.S. Highway 19 North, Suite 158, Clearwater, FL 33756, phone: 727-210-2350, email: mail@caahep.org, in collaboration with Joint Review Committee on Education in Diagnostic Medical Sonography, 6021 University Boulevard, Suite 500, Ellicott City, MD 21043, phone: 443-973-3251, email: mail@jrcdms.org.
- The Nuclear Medicine Technology program is accredited by Joint Review Committee on Educational Programs in Nuclear Medicine Technology, 2000 W. Danforth Road, Suite 130 #203, Edmond, OK 73003, phone: 405-285-0546 and the State of New Jersey Department of Environmental Protection, Radiation Protection and Release Prevention Bureau of X-Ray Compliance, Ramona Chambus, Acting Chief, 25 Arctic Parkway, P.O. Box 420 (Mail Code 25-01).
- The Nursing program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326, phone: 404-975-5000, acenursing.org and the New Jersey Board of Nursing, 124 Halsey Street, P.O. Box 45010, Newark, NJ 07101, phone: 973-504-6430, <https://www.njconsumeraffairs.gov/nur>. Questions may be addressed to the Board of Nursing and the ACEN at their respective address.
- The Paralegal (Gloucester campus) degree and certificate programs are approved by the American Bar Association (ABA) – ABA Standing Committee on Paralegals, 321 N. Clark Street, Chicago, IL 60654-7598, [americanbar.org/groups/paralegals](http://americanbar.org/groups/paralegals).
- The Physical Therapist Assistant program at Rowan College of South Jersey is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, VA 22314, phone: 703-706-3245, email: [accreditation@apta.org](mailto:accreditation@apta.org), website: <http://www.captionline.org>. If needing to contact the program directly, please call 856-415-2188 or email [lcouch@rcsj.edu](mailto:lcouch@rcsj.edu).
- RCSJ is a member of the American Association of Community Colleges.
- The Practical Nursing (Cumberland campus) certificate program is accredited by the New Jersey Division of Consumer Affairs, New Jersey Board of Nursing, 124 Halsey Street, P.O. Box 45010, Newark, NJ 07101, phone: 973-504-6430, <https://www.njconsumeraffairs.gov/nur>
- The Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606, phone: 312-704-5300, [jcert.org](http://jcert.org) and the State of New Jersey Department of Environmental Protection Bureau of X-ray Compliance, P.O. Box 420, Trenton, NJ 08625, phone: 609-984-5890, [state.nj.us/dep/rpp](http://state.nj.us/dep/rpp)

## ***Affirmative Action Statement:***

*The Board of Trustees is committed to providing an educational and workplace environment free from unlawful harassment and discrimination. All forms of employment and educational discrimination and harassment based upon race, creed, color; national origin, age, ancestry, nationality, marital or domestic partner or civil union status, sex, pregnancy, gender identity or expression, disability, liability for military service, affectional, or sexual orientation, atypical cellular or blood trait, genetic information (including refusal to submit to genetic testing) are prohibited and will not be tolerated. For questions concerning discrimination contact Almarie J. Jones, Executive Director, Diversity and Equity, Affirmative Action/Title IX Officer at 856-415-2154 or [ajones@rcsj.edu](mailto:ajones@rcsj.edu). For disability issues, contact Dennis M. Cook, Director, Department of Special Services, ADA/504 Officer at 856-415-2265 or [dcook@rcsj.edu](mailto:dcook@rcsj.edu).*

# Financial Services Information

Tuition and fees are established by the Rowan College of South Jersey Board of Trustees, which reserves the right to change any and all fees and tuition in accordance with the Higher Education Restructuring Act. Tuition and fees must be paid in accordance with the payment schedules established for each semester.

## Tuition (Effective Fall 2019)

Cumberland and Gloucester County residents (per credit)....	\$122
Out-of-county residents* (per credit).....	\$132
Out-of-state residents (per credit) .....	\$264
Foreign .....	\$264
Early College Dual Enrollment Program (per credit) .....	\$85

*\*Out-of-county students will be charged \$10 per credit over in-county rates with appropriate chargeback documentation. Without such documentation the out-of-county rate is \$197 per credit hour.*

## Fees

Comprehensive fee (per credit).....	\$20
<i>(\$6 of this fee is dedicated to the College's athletic program)</i>	
Technology fee (per credit).....	\$10

## Course Fees

Nursing RN & PN Lab Fee (per semester) .....	\$1,500
Radiography Lab Fee (per semester) .....	\$600
Online, Telecourse, & Hybrid course fee (per credit).....	\$15
Art Studio fee (per course).....	\$25
Contact Hour Fee One (1).....	\$60
Contact Hour Fee Two (2) .....	\$120
Contact Hour Fee Three (3) .....	\$180
Applied Music Course fee (per course) .....	\$230
Science Lab fee (per course).....	\$60
Foreign Language Fee (per credit).....	\$10
Dual Credit Course fee (per credit hour) .....	\$40

## Other Fees

Change of Course Fee (per course).....	\$3
Registration Fee (per semester) .....	\$20
Late registration fee (Non-refundable) charged three business days prior to the first day of each term.....	\$20
Academic Transcript Evaluations (per credit) .....	\$5
Transcript Fee .....	\$5
Graduation Petition Evaluation fee .....	\$25
Graduation Petition Late fee .....	\$25
Replace Diploma Fee.....	\$35
Non-sufficient funds check fee .....	\$30
Stop Payment/Reissue Check Fee (per check).....	\$30
Payment Plan late fee (Non-Refundable) .....	\$30
Dual Credit Course fee (per credit hour) .....	\$40
Testing fees .....	Varies
E-Books.....	Varies with Course

## PAYMENT POLICY

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

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

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

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

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

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

(Reference Board policy and Administrative procedure 6022)

## TUITION PAYMENT PLAN

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

# College Calendar 2019-2020

## Fall 2019

### 15, 10, 7A, AND 7B WEEK SEMESTERS

9/3 T	15-week and 7A-week Semesters Begin
9/13 F	Staff Orientation
10/7 M	10-week Semester Begins
10/14 M	Columbus Day - College Closed
10/18 F	7A-week Semester Ends
10/23 W	Development Day - No Classes/Labs
10/28 M	7B-week Semester Begins
11/5 T	Advisement/Assessment Day - No Classes/Labs
11/28-30 R-SU	Thanksgiving Holiday - College Closed
11/27 W	Last Day to Withdraw from Classes
12/13 F	15, 10, and 7B Semesters End

## Winter 2018-19

### ONLINE 5 WEEKS

12/16 M	Session Begins
12/16-17 M-T	Add/Drop 100% Refund
12/17 T	Last Day to Change To/From Audit Grade
12/19 R	Last Day to Withdraw with 50% Refund
1/13 M	Last Day to Withdraw from Classes
1/17 F	Session Ends

## Spring 2020

### 15, 10, 7A, AND 7B WEEK SEMESTERS

1/14 T	Staff Orientation
1/21 T	15-week and 7A-week Semesters Begin
2/17 M	Presidents' Day - College Closed
2/19 W	Monday Class Schedule
2/20 R	Development Day - No Classes/Labs
2/24	10-week Semester Begins
3/6	7A-week Semester Begins
3/16-22 M-SU	Spring Break - No Classes
3/23	7B-week Semester Begins
4/7 T	Advisement/Assessment Day - No Classes/Labs
4/10-13 F-M	Easter Holiday - College Closed
5/6 W	15, 10, and 7B Semesters End
5/14 R	Commencement

## Summer 2020

### SESSION I - 5 WEEKS (M, W)

5/18 M	Session Begins
5/25 M	Memorial Day - College Closed
6/22 M	Session Ends

### SESSION II - 7 WEEKS (T,R)

5/19 T	Session Begins
5/25 M	Memorial Day - College Closed
7/2 R	Session Ends

### SESSION III - 10 WEEKS (M,W WITH T,R LABS)

6/1 M	Session Begins
7/3 F	Independence Day - College Closed
8/6 R	Session Ends

### SESSION IV - 7 WEEKS (T,R)

7/7 T	Session Begins
8/20 R	Session Ends

# Programs of Study

## *Degrees and Certificates*

### ASSOCIATE IN ARTS (AA)

Transfer oriented programs that emphasize the liberal arts, social sciences and humanities. AA degrees with the LA prefix are Liberal Arts options.

### ASSOCIATE IN FINE ARTS (AFA)

Designed as a transfer program for students who want a concentration of fine arts courses to enter a BFA degree.

### ASSOCIATE IN SCIENCE (AS)

Transfer oriented programs that emphasize mathematics, science, business and allied health programs.

### ASSOCIATE IN APPLIED SCIENCE (AAS)

Designed to prepare students for job entry with emphasis in the applied arts and sciences for careers typically at the technical or semiprofessional level.

### ACADEMIC CERTIFICATE (AC)

Designed to be the equivalent of a one-year program with 30-36 semester hours of instruction.

### CAREER CERTIFICATE (CC)

Special training programs designed to include at least 12-29 semester hours of instruction.

### 3+1 PROGRAMS

This premier partnership program with Rowan University brings the third year of a bachelor's degree to the Cumberland Campus for select programs:

- Radio, Television, Film
- Psychology
- Nursing

**Degree Offered**

Associate in Applied Science  
Accounting

**Curriculum Code: ACCT.AAS**

**Program Information**

Accounting is one of the most rapidly expanding fields in today's economy. Since it is service oriented, it involves working with people almost as much as with financial records. As an accountant, you will not only collect and report financial data, but also serve as the link between the data and the people who use it.

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most, sometimes all, of their Cumberland credits transfer to four-year colleges.

Students are encouraged to visit the NJ transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

The latest technology and learning tools support your education for a wide range of employment opportunities.

This program provides students with an understanding of accounting skills and business fundamentals in order to prepare them to collect and report financial data as well as serve as the link between the data and the people who use it. Employment opportunities exist in public accounting, private accounting, government, and not-for profit accounting.

*r<sup>c</sup>s<sup>j</sup>.edu*

# Accounting, AAS

Program Requirements (60 credits) Credits

**Year 1**

**Fall Semester**

<input type="checkbox"/> AC 103 Principles of Accounting I	4
<input type="checkbox"/> BU 109 Business Law I	3
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> Freshman Seminar	1
	17

**Year 1**

**Spring Semester**

<input type="checkbox"/> AC 104 Principles of Accounting II	4
<input type="checkbox"/> BU 106 Introduction to Management	3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech	3
<input type="checkbox"/> Business Elective*	3
<input type="checkbox"/> General Education Social Science Elective	3
	16

**Year 2**

**Fall Semester**

<input type="checkbox"/> AC 201 Intermediate Accounting I	4
<input type="checkbox"/> AC 231 Federal Taxation: Individuals	3
<input type="checkbox"/> MA 122 Business Calculus	4
<input type="checkbox"/> General Education Social Science Elective	3
	14

**Year 2**

**Spring Semester**

<input type="checkbox"/> AC 202 Intermediate Accounting II	4
<input type="checkbox"/> AC 221 Cost Accounting I	3
<input type="checkbox"/> General Education Elective	3
<input type="checkbox"/> General Education Diversity Elective	3
	13

**Total Credits 60**

\*Any course in a business related area that has a prefix of BU, OA, CS, RE, or AC

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

- Prepare financial statements according to Generally Accepted Accounting Principles, prepare journal entries and complete the accounting cycle using computerized general ledger software.
- Demonstrate mastery of financial and managerial accounting concepts by preparing balance sheets, income and cash flow statements, and budgets by performing costs, volume and profit analysis.
- Demonstrate managerial and cost accounting concepts.
- Analyze and interpret financial statements for economic decision-making.
- Effectively communicate with use of financial information orally and in writing.
- Locate, retrieve and critically evaluate information and information sources.

Employment Opportunities  
Accountant

**Academic Certificate**

Accounting

**Curriculum Code: ACCT.AC**

**Program Information**

This program is designed to prepare students for entry-level bookkeeping and accounting positions. Accounting is one of the most rapidly expanding fields in today's economy. Since it is service oriented, it involves working with people almost as much as with financial records. As an accountant, you will not only collect and report financial data, but also serve as the link between the data and the people who use it.

**When You Graduate**

This program is most appealing for students seeking to acquire the necessary skills that can be immediately applicable in the work place.

Credits will transfer into Cumberland's Accounting associate degree program as well as preparation for the CPA exam for students possessing four-year degrees.

This program is designed to prepare students for entry-level bookkeeping and accounting positions and is most appealing for students seeking to acquire the necessary skills that can be immediately applicable in the work place.

# Accounting, AC

Program Requirements (30 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> AC 103 Principles of Accounting I	4
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> Freshman Seminar	<u>1</u>
	14

**Year 1, Spring Semester**

<input type="checkbox"/> AC 104 Principles of Accounting II	4
<input type="checkbox"/> BU 106 Introduction to Management	3
<input type="checkbox"/> BU 109 Business Law	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> General Education Diversity Elective	<u>3</u>
	16

**Total Credits 30**

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

- Prepare financial statements according to generally accepted accounting principles, prepare journal entries and complete the account cycle using computerized general ledger software
- Effectively communicate with use of financial information orally and in writing
- Locate, retrieve and critically evaluate information and information sources.

**Gainful Employment Link**

[www.ccnj.edu/gainfulemployment](http://www.ccnj.edu/gainfulemployment)

**Employment Opportunities**

Entry-level accountant; book keeper

**Degree Offered**

Associate in Science  
Agriculture

**Curriculum Code: AGRI.AS**

**Program Information**

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

**When You Graduate**

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

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

This program prepares students to continue their education at a four-year college or university in fields such as agriculture production, agribusiness, resource management, and environmental sustainability.

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# Agriculture, AS

Program Requirements (60 credits) Credits

**Year 1, Fall semester**

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

**Year 1, Spring semester**

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

**Year 2, Fall semester**

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

**Year 2, Spring semester**

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

**Total Credits 60**

\*EC 202 Microcomputers recommended

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

- Apply the knowledge of anatomy and physiology of vascular plants
- Apply the principles of the general sciences towards the production and maintenance of a variety of plants
- Select an appropriate medium or site selection for a variety of agricultural products
- Locate, retrieve and critically evaluate information and information sources.

**Employment Opportunities**

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

**Degree Offered**

Associate in Applied Science  
Agribusiness

**Curriculum Code: AGRI.BUS.AAS**

**Program Information**

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

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges.

Students are encouraged to visit the NJ Transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

Cumberland graduates have transferred to over university in New Jersey and scores of universities throughout America.

The latest technology and learning tools support your education for a wide range of employment opportunities.

This program prepares you for entry-level positions in the industry as salespersons, supervisors, managers, marketing specialists, research technicians, lab technicians, or even the owner/operator of their own agriculture business.

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# Agribusiness, AAS

Program Requirements (60/61 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> AG 105 Introduction to Agricultural Science	3
<input type="checkbox"/> CH 101 General Chemistry I	4
<input type="checkbox"/> AG 209 Introduction to Soil Science	4
<input type="checkbox"/> General Education Diversity Elective	<u>3</u>
	14
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> AC 103 Principles of Accounting I	4
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> Program Elective*	<u>3/4</u>
	16/17
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> AG 106 Plant Science	4
<input type="checkbox"/> BI 101 General Biology I	4
<input type="checkbox"/> BU 207 Introduction to Marketing	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Social Science Elective	<u>3</u>
	17
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> AG 114 Internship	1
<input type="checkbox"/> BU 109 Business Law	3
<input type="checkbox"/> Business (BU) Program Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics Elective	<u>3</u>
	13
<b>Total Credits 60/61</b>	
<b>*Program Electives</b>	
BU 106 Introduction to Management	3
BU 117 Advertising	3
BU 122 Introduction to Entrepreneurship	3
BU 209 Small Business Management	3
EN 204 Business Communication	3
AG 203 Fruit Production (Spring)	3
AG 206 Vegetable Production (Spring)	3
AG 207 Agricultural Pest Control (Spring)	4
AG 107 Plant Propagation(Spring)	3
AG 108 Herbaceous Plants (Spring)	3
OH 204 Greenhouse Management	4

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

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

**Employment Opportunities**

- Farm appraisal, International marketing, farm management, cattle and grain buying, political advocacy, market and policy analysis, research and quality control, agriculture-related legal practice, private, public, or corporate law, grain merchandising, price/risk management.

**Degree Offered**

Associate in Applied Science  
Horticulture

**Curriculum Code: HORT.AAS**

**Program Information**

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

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges.

Students are encouraged to visit the NJ Transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

Cumberland graduates have transferred to ever university in New Jersey and scores of universities throughout America.

The latest technology and learning tools support your education for a wide range of employment opportunities.

This program prepares you for entry-level positions in a variety of career areas that include landscaping, landscape design, golf course management, garden center operation, and nursery or greenhouse management

# Horticulture, AAS

Program Requirements (60 credits) Credits

**Year 1, Fall semester**

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

**Year 1, Spring semester**

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

**Year 2, Fall semester**

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

**Year 2, Spring semester**

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

**Total Credits 60**

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

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

**Degree Offered**

Associate in Science  
Beverage/Tourism  
Tasting Room Management

**Curriculum Code: BEV.AS**

**Program Information**

The craft beverage industry currently consisting of wineries, breweries and distilleries, is expanding rapidly throughout this region. A common thread among these businesses is the presence of tasting rooms as key marketing venues. Collectively, these tasting rooms have the potential to develop into a major attraction bringing tourists into the region, with beverage tourism becoming an economic driver in the hospitality industry. This program is designed to prepare a workforce capable of managing tasting rooms across the business sector, which will deliver exemplary tasting room experiences.

Students entering this program will be adult learners (21 years or older) either seeking to enter the beverage tourism field, or currently employed in tasting rooms and seeking to advance their careers.

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# Beverage Tourism/Tasting Room Management, AS

Program Requirements (60 credits)

Credits

**Year 1, Fall Semester**

<input type="checkbox"/> BT 101 State and Federal Alcohol Compliance and Safe Alcohol Handling	4
<input type="checkbox"/> BT 102 Survey of alcoholic Beverages	3
<input type="checkbox"/> BT 103 Wines of the World	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> Freshman Seminar	1
	14

**Year 1, Spring Semester**

<input type="checkbox"/> BT 104 Beer of the World	3
<input type="checkbox"/> BT 201 Breweries, Distilleries & Wineries of NJ	3
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> LS 101 Elementary Spanish I (recommended)	3
	15

**Year 1, Summer Session**

<input type="checkbox"/> BT 210 Tasting Room Internship	3
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**Year 2, Fall Semester**

<input type="checkbox"/> BT 202 Principles of Tasting Room Management	3
<input type="checkbox"/> BU 118 Professional Selling	3
<input type="checkbox"/> GE 101 World Regional Geography History Elective	3
<input type="checkbox"/> MA 109 Principles of Mathematics or MA 110 College Algebra	3
<input type="checkbox"/> General Education History Elective	3
	15

**Year 2, Spring Semester**

<input type="checkbox"/> BI 108 Human Biology	4
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> MA 205 Statistics	3
<input type="checkbox"/> Social Science Elective	3
	13

**Total Credits 60**

Upon completion of this program students should be able to:

- Serve alcoholic beverages in compliance with relevant State and Federal regulations in tasting rooms and remote venues.
- Distinguish between when to serve a patron or to withhold service, and to implement that decision in a courteous and effective manner.
- Speak knowledgeably about the alcoholic beverages including general information on production techniques, history, cultural context and food pairings.
- Effectively perform sensory evaluation on a variety of alcoholic beverages and speak knowledgeably on the results of this evaluation.
- Convey information regarding winery, brewery, and distillery venues and related accommodations.

**Degree Offered**

Academic Certificate  
Beverage/Tourism  
Tasting Room Management

**Curriculum Code: BEV.AC**

**Program Information**

The craft beverage industry currently consisting of wineries, breweries and distilleries, is expanding rapidly throughout this region. A common thread among these businesses is the presence of tasting rooms as key marketing venues. Collectively, these tasting rooms have the potential to develop into a major attraction bringing tourists into the region, with beverage tourism becoming an economic driver in the hospitality industry. This program is designed to prepare a workforce capable of managing tasting rooms across the business sector, which will deliver exemplary tasting room experiences.

Students entering this program will be adult learners (21 years or older) either seeking to enter the beverage tourism field, or currently employed in tasting rooms and seeking to advance their careers.

# Beverage Tourism/Tasting Room Management, AC

Program Requirements (31 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> BT 101 State and Federal Alcohol Compliance and Safe Alcohol Handling	4
<input type="checkbox"/> BT 102 Survey of alcoholic Beverages	3
<input type="checkbox"/> BT 103 Wines of the World	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> BU 115 Introduction to Business	3
	16

**Year 1, Spring Semester**

<input type="checkbox"/> BT 104 Beer of the World	3
<input type="checkbox"/> BT 201 Breweries, Distilleries & Wineries of NJ	3
<input type="checkbox"/> BT 202 Principles of Tasting Room Mgmt.	3
<input type="checkbox"/> BU 118 Professional Selling	3
<input type="checkbox"/> SP 203 Effective Speech	3
	15

**Total Credits 31**

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

- Serve alcoholic beverages in compliance with relevant State and Federal regulations in tasting rooms and remote venues.
- Distinguish between when to serve a patron or to withhold service, and to implement that decision in a courteous and effective manner.
- Speak knowledgeably about the alcoholic beverages including general information on production techniques, history, cultural context and food pairings.
- Effectively perform sensory evaluation on a variety of alcoholic beverages and speak knowledgeably on the results of this evaluation.
- Convey information regarding winery, brewery, and distillery venues and related accommodations.

**Gainful Employment Link**

[www.cccnj.edu/gainfulemployment](http://www.cccnj.edu/gainfulemployment)

**Degree Offered**

Career Certificate  
 Beverage/Tourism  
 Tasting Room Management

**Curriculum Code: BEV.CC**

**Program Information**

The craft beverage industry currently consisting of wineries, breweries and distilleries, is expanding rapidly throughout this region. A common thread among these businesses is the presence of tasting rooms as key marketing venues. Collectively, these tasting rooms have the potential to develop into a major attraction bringing tourists into the region, with beverage tourism becoming an economic driver in the hospitality industry. This program is designed to prepare a workforce capable of managing tasting rooms across the business sector, which will deliver exemplary tasting room experiences.

Students entering this program will be adult learners (21 years or older) either seeking to enter the beverage tourism field, or currently employed in tasting rooms and seeking to advance their careers.

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# Beverage Tourism/Tasting Room Management, CC

Program Requirements (12 credits) Credits

<input type="checkbox"/> BT 101 State & Federal Alcohol Compliance/ Safe Alcohol Handling	3
<input type="checkbox"/> BT 103 Wines of the World	3
<input type="checkbox"/> BT 104 Beer of the World	3
<input type="checkbox"/> BT 201 Breweries, Distilleries & Wineries of NJ	3
	12

**Total 12**

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

- Serve alcoholic beverages in compliance with relevant State and Federal regulations in tasting rooms and remote venues.
- Distinguish between when to serve a patron or to withhold service, and to implement that decision in a courteous and effective manner.
- Speak knowledgeably about the alcoholic beverages including general information on production techniques, history, cultural context and food pairings.
- Effectively perform sensory evaluation on a variety of alcoholic beverages and speak knowledgeably on the results of this evaluation.
- Convey information regarding winery, brewery, and distillery venues and related accommodations.

**Degree Offered**

Associate in Arts  
Liberal Arts/Business Studies

**Curriculum Code: BUS.STU.LA.AA**

**Program Information**

For students planning on continuing their education at a four-year college or university to study for a career in accounting, business administration, marketing, finance, economics and human resource management.

Business programs focus on the education and skills needed in today's global business environment. Practical courses coupled with general education offerings enhance development of critical thinking, communication, and problem-solving skills, as well as adaptability and team work.

The latest in technology and learning tools support your education for a wide range of employment opportunities.

**When You Graduate**

AA programs are primarily designed for students who plan to transfer as juniors to four-year colleges and universities. Cumberland graduates have obtained bachelor's degrees and beyond from every college in New Jersey and scores of colleges and universities throughout America. As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities. Cumberland has transfer agreements with a number of four-year colleges and universities.

This program is designed for students planning to continue their education at a four-year college or university to study for a career in accounting, business administration, marketing, finance, economics, and/or human resource management.

# Business Studies, AA

Program Requirements (60 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> AC 103 Accounting Principles I	4
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education History Elective	<u>3</u>
	16

**Year 1, Spring Semester**

<input type="checkbox"/> BU 106 Introduction to Management	3
<input type="checkbox"/> EC 201 Principles of Macroeconomics	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education History Elective	<u>3</u>
	15

**Year 2, Fall Semester**

<input type="checkbox"/> BU 207 Introduction to Marketing	3
<input type="checkbox"/> EC 202 Principles of Microeconomics	3
<input type="checkbox"/> MA 110 College Algebra	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Humanities Elective	<u>3</u>
	15

**Year 2, Spring Semester**

<input type="checkbox"/> MA 122 Business Calculus	4
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Science Elective with lab	<u>4</u>
	14

**Total Credits 60**

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

- Demonstrate appropriate oral and written communications skills by identifying, evaluating, organizing and presenting, formally and informally, a significant presentation on a related business issue
- Prepare income statement, balance sheet and statement of owner's equity
- Work in teams to evaluate, plan, organize and submit, formally and informally, a synergistic project on a business issue
- Demonstrate computer literacy and quantitative methods in solving business problems by being able to locate, retrieve, and critically evaluate business information and information sources

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# Business Management, AAS

## Degree Offered

Associate in Applied Science  
Business Management

## Curriculum Code: BUS.MGT.AAS

### Program Information

This program prepares students for entry-level management positions with a concentration in marketing.

Business programs focus on the education and skills needed in today's global business environment. Practical courses coupled with general education offerings enhance development of critical thinking, communication and problem-solving skills, as well as adaptability and team work.

### When You Graduate

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges.

Students are encouraged to visit the NJ transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

The latest technology and learning tools support your education for a wide range of employment opportunities.

This program prepares students for entry level positions in all sectors of business, government, non-profit and social service agencies with a concentration in marketing. Employment opportunities include assistant manager, buyer, department manager, store manager, and merchandising manager.

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Program Requirements (60/61 credits) Credits

### Year 1, Fall Semester

<input type="checkbox"/> AC 103 Accounting Principles I	4
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Diversity Elective	3
	<u>16</u>

### Year 1, Spring Semester

<input type="checkbox"/> AC 104 Accounting Principles II	4
<input type="checkbox"/> BU 106 Introduction to Management	3
<input type="checkbox"/> BU 109 Business Law I	3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech	3
<input type="checkbox"/> PY 101 General Psychology	3
	<u>16</u>

### Year 2, Fall Semester

<input type="checkbox"/> BU 207 Introduction to Marketing	3
<input type="checkbox"/> BU 233 Corporate Finance	3
<input type="checkbox"/> EC 201 Principles of Macroeconomics	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> MA 109 Principles of Mathematics or higher (Excluding MA 115)	3/4
	<u>15/16</u>

### Year 2, Spring Semester

<input type="checkbox"/> BU 117 Advertising	3
<input type="checkbox"/> BU 118 Professional Selling	3
<input type="checkbox"/> BU 249 Introduction to International Business	3
<input type="checkbox"/> BU 288 Strategic Management	4
	<u>13</u>

**Total Credits 60/61**

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

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

### Employment Opportunities

Assistant manager, buyer, department manager, store manager, merchandising manager.

# Business Management/ Entrepreneurship, AAS

## Degree Offered

Associate in Applied Science  
Business Management/  
Entrepreneurship

## Curriculum Code: BUS.MGT.ENTR.AAS

### Program Information

This program prepares students to lead start-up businesses and expand small businesses. Introduces students to management, marketing, accounting and finance, which are essential for effective business development.

Business programs focus on the education and skills needed in today's global business environment. Practical courses coupled with general education offerings enhance development of critical thinking, communication and problem-solving skills, as well as adaptability and teamwork.

### When You Graduate

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges.

Students are encouraged to visit the NJ transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

Cumberland graduates have transferred to every university in New Jersey and scores of universities throughout America.

The latest technology and learning tools support your education for a wide range of employment opportunities.

This program prepares students to lead startup businesses and expand small businesses. It introduces students to management, marketing, accounting, and finance which are essential for effective business development. Employment opportunities include small business owner, and small business manager.

Program Requirements (60/61 credits) Credits

### Year 1, Fall Semester

<input type="checkbox"/> AC 103 Accounting Principles I	4
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Humanities Elective	3
	<u>16</u>

### Year 1, Spring Semester

<input type="checkbox"/> AC 104 Accounting Principles II	4
<input type="checkbox"/> BU 109 Business Law	3
<input type="checkbox"/> BU 122 Introduction to Entrepreneurship	3
<input type="checkbox"/> BU 207 Introduction to Marketing	3
<input type="checkbox"/> General Education Diversity Elective	3
	<u>16</u>

### Year 2, Fall Semester

<input type="checkbox"/> BU 106 Introduction to Management	3
<input type="checkbox"/> BU 219 Retailing	3
<input type="checkbox"/> EC 201 Principles of Macroeconomics	3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech	3
<input type="checkbox"/> General Education Mathematics Elective (MA 109 or higher, excluding MA 115)	3/4
	<u>15/16</u>

### Year 2, Spring Semester

<input type="checkbox"/> BU 209 Small Business Management	3
<input type="checkbox"/> BU 117 Advertising	3
<input type="checkbox"/> BU 249 Introduction to International Business	3
<input type="checkbox"/> BU 288 Strategic Management	4
	<u>13</u>

**Total Credits 60/61**

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

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

Employment Opportunities

Small business owner, small business manager.

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**Degree Offered**

Associate in Applied Science  
Business Management/Finance

**Curriculum Code: BUS.MGT.FIN.AAS**

**Program Information**

Prepares students for entry-level management positions in all sectors of business, government, social service and not-for-profit agencies, with a concentration in finance.

Business programs focus on the education and skills needed in today's global business environment. Practical courses coupled with general education offerings enhance development of critical thinking, communication, and problem-solving skills, as well as adaptability and team work.

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges.

Students are encouraged to visit the NJ transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

Cumberland graduates have transferred to every university in New Jersey and scores of universities throughout America.

The latest technology and learning tools support your education for a wide range of employment opportunities.

This program prepares students for entry-level positions in all sectors of business, government, non-profit and social services agencies with a concentration in finance. Employment opportunities include positions in financial occupations such as finance, credit and collections, and investments.

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# Business Management/ Finance, AAS

Program Requirements (60/61 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> AC 103 Principles of Accounting I	4
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> CS 110 Technology Literacy	<u>2</u>
	15

**Year 1, Spring Semester**

<input type="checkbox"/> AC 104 Principles of Accounting II	4
<input type="checkbox"/> BU 109 Business Law	3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics Elective (MA 109 or higher, excluding MA 115)	<u>3/4</u>
	16/17

**Year 2, Fall Semester**

<input type="checkbox"/> AC 201 Intermediate Accounting I	4
<input type="checkbox"/> BU 106 Introduction to Management	3
<input type="checkbox"/> BU 233 Corporate Finance	3
<input type="checkbox"/> EC 201 Principles of Macroeconomics	3
<input type="checkbox"/> PY 101 General Psychology	<u>3</u>
	16

**Year 2, Spring Semester**

<input type="checkbox"/> AC 202 Intermediate Accounting II	4
<input type="checkbox"/> BU 249 Introduction to International Business	3
<input type="checkbox"/> Business Elective*	3
<input type="checkbox"/> General Education Diversity Elective	<u>3</u>
	13

**Total Credits 60/61**

\*Any course in a business related area that has a prefix of BU, OA, CS, RE, AC

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

- Prepare and present effective oral and written business presentations.
- Demonstrate mastery of financial and managerial accounting concepts by preparing balance sheets, income and cash flow statements, and budgets by performing costs, volume and profit analysis.
- Work effectively in both leadership and support roles as part of diverse teams to achieve a variety of business related tasks.
- Evaluate key elements of a strategic plan and make recommendations for improvements.
- Perform, interpret and analyze financial statements.
- Perform a stock market analysis.
- Locate, retrieve and critically evaluate information and information sources.

**Employment Opportunities**

Entry positions in financial occupations: finance, credit & collections, and investments.

**Degree Offered**

Associate in Applied Science  
Business Management/Human  
Resources

**Curriculum Code: BUS.MGT.HR.AAS**

**Program Information**

This program prepares students for entry-level management positions in all sectors of business, government, social service and not-for-profit agencies, with a concentration in human resources.

Business programs focus on the education and skills needed in today's global business environment. Practical courses coupled with general education offerings enhance development of critical thinking, communication, and problem-solving skills, as well as adaptability and team work.

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges.

Students are encouraged to visit the NJ transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

Cumberland graduates have transferred to every university in New Jersey and scores of universities throughout America.

The latest technology and learning tools support your education for a wide range of employment opportunities.

This program prepares students for entry level positions in all sectors of business, government, non-profit and social service agencies with a concentration in human resources. Employment opportunities include benefits coordinator, personnel records supervisor, training and development coordinator, and recruitment specialist.

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# Business Management/ Human Resources, AAS

Program Requirements (60/61 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> AC 103 Principles of Accounting I	4
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Diversity Elective	<u>3</u>
	16

**Year 1, Spring Semester**

<input type="checkbox"/> AC 104 Principles of Accounting II	4
<input type="checkbox"/> BU 106 Introduction to Management	3
<input type="checkbox"/> BU 109 Business Law I	3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech	3
<input type="checkbox"/> PY 101 General Psychology	<u>3</u>
	16

**Year 2, Fall Semester**

<input type="checkbox"/> BU 116 Cases in Business Management	3
<input type="checkbox"/> BU 207 Introduction to Marketing	3
<input type="checkbox"/> BU 212 Human Resource Management	3
<input type="checkbox"/> BU 242 Labor Relations	3
<input type="checkbox"/> MA 109 Principles of Mathematics or higher (Excluding MA 115)	<u>3/4</u>
	15/16

**Year 2, Spring Semester**

<input type="checkbox"/> BU 244 Employee Selection	3
<input type="checkbox"/> BU 247 Leadership	3
<input type="checkbox"/> BU 288 Strategic Management	4
<input type="checkbox"/> General Education Humanities Elective	<u>3</u>
	13

**Total Credits 60/61**

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

- Demonstrate mastery of financial and managerial accounting concepts by preparing balance sheets, income and cash flow statements, and budgets by performing costs, volume and profit analysis.
- Prepare and present effective oral and written business presentations.
- Evaluate key elements of a strategic plan and make recommendations for improvements.
- Work effectively in both leadership and support roles as part of diverse teams to achieve a variety of business related tasks.
- Describe business procedures for compliance with various human resource regulations and the law.
- Analyze issues involved in organizational recruitment, training, and development.
- Locate, retrieve and critically evaluate information and information sources.

**Employment Opportunities**

Benefits coordinator, personnel records supervisor, training & development coordinator, recruitment specialist.

**Degree Offered**

Associate in Applied Science  
Business Management/Marketing

**Curriculum Code: BUS.MGT.MKT.AAS**

**Program Information**

This program prepares students for entry-level management positions with a concentration in marketing.

Business programs focus on the education and skills needed in today's global business environment. Practical courses coupled with general education offerings enhance development of critical thinking, communication and problem-solving skills, as well as adaptability and team work.

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges.

Students are encouraged to visit the NJ transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

The latest technology and learning tools support your education for a wide range of employment opportunities.

This program prepares students for entry level positions in all sectors of business, government, non-profit and social service agencies with a concentration in marketing. Employment opportunities include assistant manager, buyer, department manager, store manager, and merchandising manager.

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# Business Management/ Marketing, AAS

Program Requirements (60/61 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> AC 103 Principles of Accounting I	4
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Diversity Elective	<u>3</u>
	16

**Year 1, Spring Semester**

<input type="checkbox"/> AC 104 Principles of Accounting II	4
<input type="checkbox"/> BU 106 Introduction to Management	3
<input type="checkbox"/> BU 109 Business Law I	3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech	3
<input type="checkbox"/> PY 101 General Psychology	<u>3</u>
	16

**Year 2, Fall Semester**

<input type="checkbox"/> BU 207 Introduction to Marketing	3
<input type="checkbox"/> BU 233 Corporate Finance	3
<input type="checkbox"/> EC 201 Principles of Macroeconomics	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> MA 109 Principles of Mathematics or higher (Excluding MA 115)	<u>3/4</u>
	15/16

**Year 2, Spring Semester**

<input type="checkbox"/> BU 117 Advertising	3
<input type="checkbox"/> BU 118 Professional Selling	3
<input type="checkbox"/> BU 249 Introduction to International Business	3
<input type="checkbox"/> BU 288 Strategic Management	<u>4</u>
	13

**Total Credits 60/61**

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

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

**Employment Opportunities**

Assistant manager, buyer, department manager, store manager, merchandising manager.

**Degree Offered**

Academic Certificate  
Business Management

**Curriculum Code: BUS.MGT.AC**

**Program Information**

Prepares students for entry-level business management positions in all sectors of business, government, not-for-profit and social service agencies.

Business programs focus on the education and skills needed in today's global business environment. Practical courses coupled with general education offerings enhance development of critical thinking, communication and problem-solving skills, as well as adaptability and team work.

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree.

Credits will transfer into Cumberland's Business Management associate degree program.

This program prepares students for entry level positions in all sectors of business, government, non-profit and social service agencies. Employment opportunities include manufacturing, retailing, banking, insurance, marketing, and government.

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# *Business Management, AC*

Program Requirements (31 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> AC 103 Accounting Principles I	4
<input type="checkbox"/> BU 109 Business Law I	3
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	<u>3</u>
	16

**Year 1, Spring Semester**

<input type="checkbox"/> BU 106 Introduction to Management	3
<input type="checkbox"/> BU 207 Introduction to Marketing	3
<input type="checkbox"/> BU 212 Introduction to Human Resources	3
<input type="checkbox"/> BU 233 Corporate Finance	3
<input type="checkbox"/> BU 249 Introduction to International Business	<u>3</u>
	15

**Total Credits 31**

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

- Prepare and present effective oral and written business presentations
- Demonstrate mastery of financial and managerial accounting concepts by preparing balance sheets, income and cash flow statements and budgets.
- Locate, retrieve and critically evaluate information and information sources.

Gainful Employment Link  
[www.rccnj.edu/gainfulemployment](http://www.rccnj.edu/gainfulemployment)

Employment Opportunities  
Entry-level positions in manufacturing, retailing, banking, insurance, marketing and government.

**Career Certificate**

Entrepreneurship/  
Small Business Leadership

**Curriculum Code: BUS.MGT.ENTR.CC**

**Program Information**

This program is designed to prepare students to start and lead start-up businesses. Students are introduced to management, marketing, accounting and finance, which are essential for effective business development.

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree in Business Management.

# Entrepreneurship/ Small Business Leadership, CC

Program Requirements (27 credits)	Credits
<input type="checkbox"/> BU 106 Introduction to Management	3
<input type="checkbox"/> BU 109 Business Law I	3
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> BU 118 Professional Selling	3
<input type="checkbox"/> BU 207 Introduction to Marketing	3
<input type="checkbox"/> BU 209 Small Business Management	3
<input type="checkbox"/> BU 233 Corporate Finance	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> Business Elective*	3
	27

**Total Credits 27**

\*Any course in a business related area that has a prefix of BU, OA, CS, RE, or AC

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

- Discuss the philosophy of the components essential for business development
- Describe the formal structures that affect entrepreneurial practices
- Locate, retrieve and critically evaluate information and information sources

Employment Opportunities  
Beginning business owner.

**Degree Offered**

Associate in Arts  
Liberal Arts/Communications

**Curriculum Code: COMM.LA.AA**

**Program Information**

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

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

**When You Graduate**

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

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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# Liberal Arts/ Communications, AA

Program Requirements (60/61 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> CO 101 Mass Media Influence	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Technology Literacy	2/3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Mathematics Elective	3
	14/15
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> CO 104 Writing for Electronic Media	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> General Education Math or Science Elective	3/4
	15/16
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> CO 114 Digital Media I	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> General Education History	3
<input type="checkbox"/> EN 231 News Writing I or EN 241 Publication, Layout & Design	3
	16
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Literature Elective	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> EN 231 News Writing I or EN 241 Publication, Layout & Design	3
	15
<b>Total Credits 60/61</b>	

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

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

**Degree Offered**

Associate in Arts  
Integrated Marketing Communications  
(IMC)

**Curriculum Code: PUBLIC.REL.LA.AA**

**Program Information**

The IMC program will complement the Communications, Journalism and TV Production tracks available in the Arts and Humanities division. The IMC program will allow students to learn how to develop relationships with diverse publics through a values-driven approach. It will also provide students the opportunity to effectively communicate complex messages through a variety of mediums.

**When You Graduate**

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

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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# Integrated Marketing Communications (IMC), AA

Program Requirements (60/61 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> CO 101 Mass Media Influence or PR 105 Intro to Public Relations	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Technology Literacy	2/3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Mathematics Elective	3
	14/15

**Year 1, Spring Semester**

<input type="checkbox"/> CO 104 Writing for Electronic Media	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Math or Science Elective	3
	15

**Year 2, Fall Semester**

<input type="checkbox"/> EN 241 Publication, Layout & Design	3
<input type="checkbox"/> General Education Humanities Elective (Foreign Language Recommended)	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> BU 207 Intro to Marketing or BU 117 Advertising (BESS Classes)	3
	16

**Year 2, Spring Semester**

<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Literature Elective	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> CO 239 Communications Internship	3
	15

**Total Credits 60/61**

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

- Define objectives for a public relations issue.
- Create a public relations campaign to meet specific needs of a project.
- Recognize ethical issues facing professionals in the field of public relations today.
- Locate, retrieve, and critically evaluate information and information sources.

**Degree Offered**

Associate in Arts  
 Liberal Arts/Digital Media  
 Production

**Curriculum Code:**

**Program Information**

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

**When You Graduate**

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

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

**Career Opportunities**

Students who successfully complete an advanced degree will qualify for employment as:

- Producers
- Directors
- Camera Operators
- Scriptwriters
- Recording Engineers
- Media Production & Planning Specialists

For more information contact  
 Dr. Renee J. Post at 856-691-8600, ext. 1470  
 or rpost@cccnj.edu

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# LA/Television & Digital Media Production, AA

*This is a 3+1 program with Rowan University*  
 Program Requirements (60/61 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 109, 115, or 205	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> HI 101 Western Civilization I	3
<input type="checkbox"/> CO 217 Applied Media Aesthetics	3
<input type="checkbox"/> FS101 Freshman Seminar	1
	16

**First Year, Spring Semester**

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

**Second Year, Fall Semester**

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

**Second Year, Spring Semester**

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

**Total Credits 60**

*Choose to finish with your AA, or continue to the third year for the 3+1 option.*

**Third Year, Fall Semester**

<input type="checkbox"/> COM 312 Film Production I	3
<input type="checkbox"/> COM 317 The Movie Industry	3
<input type="checkbox"/> Free Elective (Literature Required)	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
	15

**Third Year, Spring Semester**

<input type="checkbox"/> COM 310 TV Production I	3
<input type="checkbox"/> COM 319 Screenwriting I	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
	15

**Total 3+1 Credits at Cumberland 90**

Free Electives = any college level course of the student's choice

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

**Academic Certificate**  
Entertainment Technology

**Curriculum Code: ENT.TECH.AC**

**Program Information**

The Communication and Theatre departments are collaborating to create an Academic Certificate to offer training in the Entertainment Technology field. This unique program is designed to prepare individuals to work as skilled technicians, capable of functioning independently, or as part of a production team in the preparation and performance of theatrical/entertainment events. Students will have an opportunity to get real-world experience as they complete the required internship in this program.

The sources of students for this program are Cumberland theatre students, communication, journalism, public relations and television production students. Also entertainment business and industry professionals from Philadelphia and New Jersey working in the field but looking for updated training or advancement in his/her career.

**When You Graduate**

This Academic Certificate will offer students the opportunity to learn hands-on training in this field with an option to transfer into an academic degree of study focusing on Theatre and/or Television and Digital Media Production.

# Entertainment Technology, AC

Program Requirements (30 credits) Credits

**Year 1, Fall Semester**

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

**Year 1, Spring Semester**

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

**Total Credits 30**

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

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

**Employment Opportunities**

Shop technician, installation technician, service technician, production assistant, Jr. media production, digital media specialist, camera operator, videographer, audio & video equipment technician, broadcast & sound, video editor, assistant technical director, assistant stage manager, assistant sound designer, assistant lighting designer, assistant stage crew.

**Degree Offered**

Associate in Science  
Computer Science

**Curriculum Code: COMP.SCI.AS**

**Program Information**

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

**When You Graduate**

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

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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

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# Computer Science, AS

Program Requirements (60/62 credits)	Credits
<b>Year 1 Fall Semester</b>	
<input type="checkbox"/> CS 111 Computer Science I	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 130 Calculus I	4
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> Freshman Seminar	1
	15
<b>Year 1 Spring Semester</b>	
<input type="checkbox"/> CS 112 Computer Science II	4
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education Mathematics Elective (MA 140 recommended, excluding MA 109 & MA 115)	3/4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Computer Science Program Elective*	4
	17/18
<b>Year 2 Fall Semester</b>	
<input type="checkbox"/> CS 216 Intermediate Java	4
<input type="checkbox"/> General Education Humanities Elective or General Education Social Science Elective	3
<input type="checkbox"/> General Education Lab Science (PI 141 Physics I Recommended)	4
<input type="checkbox"/> General Education Mathematics Elective (excluding MA 109 and MA 115)	3/4
	14/15
<b>Year 2 Spring Semester</b>	
<input type="checkbox"/> MA 111 Discrete Math	4
<input type="checkbox"/> General Education Lab Science (PI 142 Physics II Recommended)	4
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
	14
<b>Total Credits 60/62</b>	
<b>*Computer Science Program Electives</b>	
CS 132 Web Page Development I	4
CS 210 Database Management	4
CS 212 C++ Programming	4
CS 215 Visual Basic Programming	4
CS 222 Intro to Android Programming in Java	4

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

Employment Opportunities  
Computer support specialist, web master.

**Degree Offered**

Associate in Science  
Computer Science/Information  
Systems

**Curriculum Code:  
COMP.SCI.INFO.SYS.AS**

**Program Information**

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

**When You Graduate**

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

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

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

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# Computer Science/ Information Systems, AS

Program Requirements (60 credits) Credits

**Year 1 Fall Semester**

<input type="checkbox"/> CS 111 Computer Science I	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Mathematics Elective (MA 130 Calculus I Recommended)**	4
<input type="checkbox"/> General Education Humanities Elective	3
	14

**Year 1 Spring Semester**

<input type="checkbox"/> AC 103 Accounting I	4
<input type="checkbox"/> CS 112 Computer Science II	4
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education Mathematics Elective (Excluding MA 109 and MA 115)	3
<input type="checkbox"/> General Education Social Science Elective	3
	17

**Year 2 Fall Semester**

<input type="checkbox"/> CS 210 Database Management	4
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> Computer Science Program Elective or Network Management Program Elective*	4
<input type="checkbox"/> General Education Humanities Elective or General Education Social Science Elective	3
	14

**Year 2 Spring Semester**

<input type="checkbox"/> MA 111 Discrete Math	4
<input type="checkbox"/> Computer Science Program Elective*	4
<input type="checkbox"/> General Education Mathematics or Lab Science Elective (MA 140 Calculus II Recommended)**	4
<input type="checkbox"/> General Education History Elective	3
	15

**Total Credits 60**

**\*Computer Science Program Electives**

CS 132 Web Page Development I	4
CS 212 C++ Programming	4
CS 215 Visual Basic Programming	4
CS 216 Intermediate Java Programming	4
CS 222 Intro to Android Programming in Java	4

**\*Computer Network Management Electives**

CS 233 Networking Hardware & Routing	4
CS 234 LAN Switching & Wireless	4
CS 235 Accessing the WAN, Security & Troubleshooting	4
CS 240 Security +	3
CS 241 Computer Forensics	3
CS 275 Core Server Operating System	4

**\*\*Excluding MA 109 and MA 115**

**Degree Offered**

Associate in Applied Science  
Network Management

**Curriculum Code: NET.MGT.AAS**

**Program Information**

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

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges.

Students are encouraged to visit the NJ transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

The latest technology and learning tools support your education for a wide range of employment opportunities.

# Network Management, AAS

Program Requirements (60/61 credits)	Credits
<b>Year 1 Fall Semester</b>	
<input type="checkbox"/> CS 170 PC Services & Support / A+ Certification	4
<input type="checkbox"/> CS 175 Core Client Operating Systems	3
<input type="checkbox"/> CS 217 Introduction to Networks	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> Freshman Seminar	1
	15
<b>Year 1 Spring Semester</b>	
<input type="checkbox"/> CS 229 Linux Installation & Configuration	3
<input type="checkbox"/> CS 233 Routing & Switching Essentials	4
<input type="checkbox"/> CS 275 Core Server Operating Systems	4
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech	3
<input type="checkbox"/> General Education Diversity Elective	3
	17
<b>Year 2 Fall Semester</b>	
<input type="checkbox"/> CS 226 Network Infrastructure Implementation	4
<input type="checkbox"/> CS 228 Active Directory Design & Implementation	4
<input type="checkbox"/> CS 234 Scaling Networks	4
<input type="checkbox"/> General Education Mathematics Elective (excluding MA 115)	3
	15
<b>Year 2 Spring Semester</b>	
<input type="checkbox"/> CS 235 Connecting Networks	4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics Elective (excluding MA 115)	3/4
	13/14
<b>Total Credits</b>	<b>60/61</b>

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

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

**Employment Opportunities**

Computer support specialist, computer systems administrator, network administrator, systems analyst.

**Degree Offered**

Associate in Science  
Cybersecurity

**Curriculum Code: CYB.AS**

**Program Information**

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

**When You Graduate**

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

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

This program prepares students to continue their education at a four-year college or university in fields such as Security Technician, Security Analyst, Security Administrator, and Security Auditor.

# Cybersecurity, AS

Program Requirements (60 credits) Credits

**Year 1 Fall Semester**

<input type="checkbox"/> IT 116 Workplace Ethics	1
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 110 College Algebra	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
	13

**Year 1 Spring Semester**

<input type="checkbox"/> CS 275 Core Server Operating System	4
<input type="checkbox"/> CS 229 Linux Installation & Configuration	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA205 - Statistics I	3
<input type="checkbox"/> General Education Social Science Elective or Humanities Elective	3
	16

**Year 2 Fall Semester**

<input type="checkbox"/> General Education Lab Science	4
<input type="checkbox"/> CS 242 Principles of Information Security	3
<input type="checkbox"/> CS 226 Network Infrastructure Implementation	4
<input type="checkbox"/> CS 241 Computer Forensics	3
<input type="checkbox"/> General Education Social Science Elective	3
	17

**Year 2 Spring Semester**

<input type="checkbox"/> CS 212 C ++ Programming	4
<input type="checkbox"/> CS 240Security +	3
<input type="checkbox"/> CS 265 Ethical Hacking	4
<input type="checkbox"/> General Education Diversity Elective	3
	14

**Total Credits 60**

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

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

**Employment Opportunities**

Computer support specialist, computer systems administrator, network administrator, systems analyst.

**Degree Offered**

Associate in Arts  
 Liberal Arts  
 Elementary/Secondary Education

**Curriculum Code: EDU.EL.SEC.LA.AA**

**Program Information**

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

**When You Graduate**

AA programs are primarily designed for students who plan to transfer as juniors at four-year colleges and universities. Cumberland graduates have obtained bachelor's degrees and beyond from every college in New Jersey and scores of colleges and universities throughout America.

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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

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# Liberal Arts/ Elementary/ Secondary Education, AA

Program Requirements (60 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> ED 101 Historical Foundations of Education	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> Freshman Seminar	1
	13

**Year 1, Spring Semester**

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 109 Principles of Mathematics	3
<input type="checkbox"/> PY 102 Child Psychology	3
<input type="checkbox"/> PY 213 Educational Psychology	3
<input type="checkbox"/> General Education Science Elective	4
	16

**Year 2, Fall Semester**

<input type="checkbox"/> HI 201 US History I or HI 202 US History II	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Literature Elective	3
<input type="checkbox"/> BI 101 General Biology	4
<input type="checkbox"/> GE 102 Cultural Geography	3
	16

**Year 2, Spring Semester**

<input type="checkbox"/> AR 101 Art Appreciation	3
<input type="checkbox"/> HI 101 Western Civilization I or HI 102 Western Civilization II	3
<input type="checkbox"/> MA 115 Mathematical Structures & Algorithms (Elementary Majors) or PY 204 Psychology of Adolescence (Middle-Secondary Majors)	3
<input type="checkbox"/> PY 214 Human Exceptionality	3
<input type="checkbox"/> General Education Humanities Elective	3
	15

**Total Credits 60**

**Elementary Education Program (K-8) Requirements (15 credits)**

ED 101 Historical Foundations of Education	3
PY 102 Child Psychology	3
PY 213 Educational Psychology	3
PY 214 Human Exceptionality	3
MA 115 Mathematical Structures & Algorithm	3

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

**Secondary Education Program Requirements (15 credits)**

ED 101 Historical Foundations of Education	3
PY 102 Child Psychology	3
PY 204 Psychology of Adolescence	3
PY 213 Educational Psychology	3
PY 214 Human Exceptionality	3

**Degree Offered**

Associate in Applied Science  
Early Childhood/Preschool  
Education

**Curriculum Code: ECE.AAS**

**Program Information**

The rapidly growing preschool field of private and public day care, Head Start, nursery and public preschool centers has created numerous positions in a variety of settings for graduates of this program.

Graduates are employed as group teachers in private child care facilities, paraprofessionals in public schools, and as directors of private preschools and home day cares. Others move into bachelor's and master's degree programs to become fully certified early childhood teachers.

Students are introduced to child development, learning theory, language and literacy development, classroom management, and problem-solving through math, science, technology and the arts.

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating. Upon completion of the AAS program, however, students may choose to transfer to Thomas Edison State College to complete a bachelor's degree in Liberal Studies. An agreement with Montclair State University enables students to obtain Teacher Certification in Preschool through Third Grade with one year of post baccalaureate study. With an additional year in P-3 studies, students obtain a master's degree through a collaborative agreement between MSU and Cumberland.

This program is designed for the rapidly growing preschool field of private and public day care, Head Start, nursery and public preschool centers. Students are introduced to child development, learning theory, language and literacy development, classroom management, and problem-solving through math, science, technology and the arts.

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# Early Childhood/ Preschool Education, AAS

Program Requirements (60 credits) Credits

**Year 1, Fall Semester**

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

**Year 1, Spring Semester**

<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> ED 203 Language Dev. & Emergent Literacy	3
<input type="checkbox"/> ED 209 Child Health, Safety & Nutrition	3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech	3
<input type="checkbox"/> PY 101 General Psychology	3
	15

**Year 2, Fall Semester**

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

**Year 1, Spring Semester**

<input type="checkbox"/> ED 212 Picture Books and Storytelling	3
<input type="checkbox"/> ED 290 The Early Childhood Professional capstone	3
<input type="checkbox"/> PI 110 Principles of Science I with Lab	4
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
	16

**Total Credits 60**

**\*Early Childhood Education Electives**

- ED 103 Infant/Toddler Curriculum
- ED 105 Introduction to Special Education
- ED 110 Infant/Toddler Mental Health
- ED 204 Creative Learning Experiences

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

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

**Academic Certificate**  
Early Childhood Education

**Curriculum Code: ECE.AC**

**Program Information**

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

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree.

# Early Childhood Education, AC

Program Requirements (30 credits) Credits

**Year 1, Fall Semester**

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

**Year 1, Spring Semester**

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

**Total Credits 30**

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

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

Gainful Employment Link  
[www.cccnj.edu/gainfulemployment](http://www.cccnj.edu/gainfulemployment)

Employment Opportunities  
Group teacher in a private child care facility or home day care setting.

**Career Certificate**  
Infant/Toddler

**Curriculum Code: ECE.INF.TOD.CC**

**Program Information**

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

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree.

# *Infant/Toddler, CC*

Program Requirements (15 credits)	Credits
<input type="checkbox"/> ED 106: Principles of Early Childhood Education	3
<input type="checkbox"/> PY 115: Child Development & Learning	3
<input type="checkbox"/> ED 103: Infant/Toddler Curriculum Development	3
<input type="checkbox"/> ED 110: Infant/Toddler Mental Health	3
<input type="checkbox"/> ED 219: Infant Toddler Field Experience	3
	15
<b>Total Credits 15</b>	

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

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

**Employment Opportunities**

Infant/Toddler caregiver in childcare, Head Start, home day care setting.

# Nuclear Energy Technology, AAS

A collaborative A.A.S. degree program with Salem Community College

Program Requirements (68 credits) Credits

<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> CS 101 Introduction to Microcomputers	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> NET 111 Mathematics for Energy Technicians*	4
<input type="checkbox"/> NET 115 Mechanical Sciences*	3
<input type="checkbox"/> General Education Humanities Elective or General Education Social Science Elective	3
	16
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> EN 103 Technical Writing	3
<input type="checkbox"/> MA 110 College Algebra	3
<input type="checkbox"/> NET 130 Applied Physics & Chemistry*	4
<input type="checkbox"/> NET 131 Nuclear Industry Fundamental Concepts*	3
<input type="checkbox"/> NET 133 Electrical Science*	4
	17
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> NET 211 Heat Transfer & Fluid Flow*	3
<input type="checkbox"/> NET 213 Instrumentation & Control I*	3
<input type="checkbox"/> NET 251 Maintenance: Electrical Systems*	3
<input type="checkbox"/> NET 261 Nuclear Plant Systems & Components-PWR*	3
<input type="checkbox"/> PI 123 Fundamentals of Physics I	4
	16
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> NET 221 Nuclear Science*	4
<input type="checkbox"/> NET 223 Reactor Plant Protection & Safety*	4
<input type="checkbox"/> NET 225 Instrumentation & Control II*	4
<input type="checkbox"/> NET 263 Nuclear Plant Systems & Components-BWR*	4
	19
<b>Total Credits 68</b>	

\*Courses completed at Salem Community College Training Facility

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

- Communicate effectively in a professional manner.
- Demonstrate an understanding of scientific inquiry and application.
- Demonstrate an understanding of nuclear power fundamentals.
- Work safely and effectively in the field of nuclear maintenance.
- Demonstrate an understanding of the basic operation of a nuclear power plant.

## Degree Offered

Associate in Applied Science  
Nuclear Energy Technology

## Curriculum Code: NUC.TECH.AAS

### Program Information

The Nuclear Energy Technology program prepares students to move directly into the workforce upon graduation. Students will be qualified for entry-level positions in nuclear power maintenance and technology. Courses provide students with a solid foundation in basic scientific principles as well as mathematics. Students are exposed to the theory, materials and equipment necessary to work in the nuclear technology field. Special emphasis is placed on nuclear safety and procedures.

The program offers three tracks, each leading to a distinct skill set in the nuclear energy industry: instrumentation and control maintenance, electrical maintenance and non-licensed operator. The instrumentation and control maintenance track provides students with a strong foundation in the general systems and components, while focusing on the in-depth knowledge required for specific jobs in the area of instrumentation and control.

### When You Graduate

Although not designed to be a transfer program, many of the general education courses should be accepted into a baccalaureate program in a related field.

Salem Community College  
460 Hollywood Avenue  
Carneys Point, NJ 08069

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# Engineering, AS

## Degree Offered

Associate in Science  
Engineering

## Curriculum Code: ENG.AS

### Program Information

This program is designed to meet the demands of an increasing number of people in the community who are interested in preparing for a career in the engineering field.

### When You Graduate

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

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

### Employment Opportunities

Architect, biomedical engineer, civil engineer, civil engineering technician, electrical engineer, environmental engineer, industrial engineer, landscape architect, mechanical engineer, petroleum engineer.

Program Requirements (66/69 credits) Credits

#### Year 1, Fall Semester

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

#### Year 1, Spring Semester

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

#### Year 2, Fall Semester

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

#### Year 2, Spring Semester

<input type="checkbox"/> CS 212 C++ Programming	4
<input type="checkbox"/> EG 212 Introduction to Engineering II Lab	1
<input type="checkbox"/> MA 220 Differential Equations	4
<input type="checkbox"/> MA 207 Linear Algebra for Engineers	1
<input type="checkbox"/> EC 201 Principles of Macroeconomics or EC 202 Principles of Microeconomics	3
<input type="checkbox"/> Program Elective*	3/4
	16/17

**Total Credits 66/69**

### \*PROGRAM ELECTIVES

#### Mechanical Engineering Track

- EG 201 Statics 3cr
- EG 202 Dynamics 3cr
- EG 213 Principles of Electrical Circuit Analysis 4cr or  
EG 203 Strength of Materials 3 cr

#### Chemical Engineering Track

- CH 102 Chemistry II 4cr
- CH 201 Organic Chemistry I 4cr
- CH 202 Organic Chemistry II 4cr

#### Electrical and Computer Engineering Track

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

#### Civil Engineering Track:

- EG 203 Strength of Materials
- EG 102 Graphics 3cr
- EG 201 Statics 3cr
- EG 202 Dynamics 3cr

**Degree Offered**

Associate in Applied Science  
Engineering Technology

**Curriculum Code: ENG.TECH.AAS**

**Program Information**

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

The flexibility offered by this program allows for entrance AS and transferability requirements into school with BS in engineering Technology programs. Students should choose their electives deliberately with the transfer destination in mind.

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most, sometimes all, of their Cumberland credits transfer to four-year colleges. Cumberland graduates have transferred to every university in New Jersey and scores of universities throughout America. The latest technology and learning tools support your education for a wide range of employment opportunities.

# Engineering Technology, AAS

Program Requirements (60/63 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> EG 101 Introduction to Engineering	2
<input type="checkbox"/> IT 102 Fundamentals of Engineering Tech Design	3
<input type="checkbox"/> MA 110 College Algebra	3
<input type="checkbox"/> IT 118 Tools and Measurements	1
<input type="checkbox"/> General Education Humanities Elective or General Education Social Science Elective	3
	15
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing	3
<input type="checkbox"/> IT 112 Intro to Engineering Tech Lab	2
<input type="checkbox"/> IT 107 Circuits I	3
<input type="checkbox"/> IT 211 Advanced Engineering Tech Design	3
<input type="checkbox"/> MA 120 College Trigonometry	3
<input type="checkbox"/> IT 105 Blueprint Reading & Sketching	2
	16
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> IT 162 Quality Control	3
<input type="checkbox"/> PI 123 Fundamentals of Physics	4
<input type="checkbox"/> IT 218 Programmable Logic Controllers	3
<input type="checkbox"/> Program Elective*	3/4
<input type="checkbox"/> General Education Humanities Elective or General Education Social Science Elective	3
	16/17
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> EC 202 Principles of Microeconomics	3
<input type="checkbox"/> IT 116 Workplace Ethics	1
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> Program Elective	3/4
<input type="checkbox"/> Program Elective	3/4
	13/15
<b>Total Credits 60/63</b>	

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

- Successfully employ test and measurement equipment.
- Develop a technical drawing in free hand and computer aided format.
- Locate information resources and successfully retrieve data for employment.
- Apply algebra to analyze simple electrical circuits.
- Employ standardized industrial equipment such as PLC and be capable to apply the principles of quality control.

**Please see the next page for specified track and transfer information.**

# Engineering Technology, AAS Degree Tracks

## Degree Offered

Associate in Applied Science  
Engineering Technology

## Curriculum Code: ENG.TECH.AAS

### Program Information

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

The flexibility offered by this program allows for entrance AS and transferability requirements into school with BS in engineering Technology programs. Students should choose their electives deliberately with the transfer destination in mind.

### When You Graduate

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most, sometimes all, of their Cumberland credits transfer to four-year colleges. Cumberland graduates have transferred to every university in New Jersey and scores of universities throughout America. The latest technology and learning tools support your education for a wide range of employment opportunities.

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

- Successfully employ test and measurement equipment.
- Develop a technical drawing in free hand and computer aided format.
- Locate information resources and successfully retrieve data for employment.
- Apply algebra to analyze simple electrical circuits.
- Employ standardized industrial equipment such as PLC and be capable to apply the principles of quality control.

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## Program Requirements

## Credits

### Mechatronics Technology Track:

### Select 3

- |   |   |
|---|---|
| <input type="checkbox"/> IT 241 Robotics and Motion Control <sup>1,2</sup>        | 4 |
| <input type="checkbox"/> IT 240 Pneumatic and Hydraulic Automation <sup>1,3</sup> | 4 |
| <input type="checkbox"/> IT 227 Circuits II <sup>1,2,3</sup>                      | 4 |
| <input type="checkbox"/> IT 242 Advanced PLCs <sup>1,2,3,4</sup>                  | 4 |
| <input type="checkbox"/> IT 243 Drone Applications <sup>1</sup>                   | 3 |
| <input type="checkbox"/> IT 228 Engineering Technology Internship                 | 3 |

### Manufacturing Technology Track:

### Select 3

- |  |   |
|--|---|
| <input type="checkbox"/> IT 223 Statics for Technology <sup>1</sup>          | 3 |
| <input type="checkbox"/> IT 224 Dynamics for Technology <sup>1</sup>         | 3 |
| <input type="checkbox"/> IT 221 Fundamentals of Manufacturing <sup>1,2</sup> | 4 |
| <input type="checkbox"/> IT 242 Advanced PLCs <sup>1,2,3,4</sup>             | 4 |
| <input type="checkbox"/> IT 160 CNC Programming <sup>2,4</sup>               | 4 |
| <input type="checkbox"/> IT 228 Engineering Technology Internship            | 3 |

### Electrical Technology Track:

### Select 3

- |  |   |
|--|---|
| <input type="checkbox"/> IT 227 Circuits II <sup>1,2,3,4</sup>         | 3 |
| <input type="checkbox"/> IT 205 Digital Electronics <sup>1,2,3,4</sup> | 3 |
| <input type="checkbox"/> IT 111 Electronics                            | 4 |
| <input type="checkbox"/> MA 125 Calculus Fundamentals <sup>1,2,3</sup> | 3 |
| <input type="checkbox"/> IT 228 Engineering Technology Internship      | 3 |

### Mechanical Technology Track:

### Select 3

- |  |   |
|--|---|
| <input type="checkbox"/> IT 223 Statics for Technology <sup>1</sup>    | 3 |
| <input type="checkbox"/> IT 224 Dynamics for Technology <sup>1</sup>   | 3 |
| <input type="checkbox"/> CH 101 Chemistry <sup>1,2,4</sup>             | 4 |
| <input type="checkbox"/> MA 125 Calculus Fundamentals <sup>1,2,3</sup> | 4 |
| <input type="checkbox"/> IT 228 Engineering Technology Internship      | 3 |

### Transfer Recommendations:

- <sup>1</sup> NJIT  
<sup>2</sup> Rowan  
<sup>3</sup> Drexel  
<sup>4</sup> Thomas Edison

**Academic Certificate**  
Engineering Technology

**Curriculum Code: ENG.TECH.AC**

**Program Information**

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

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree.

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# Engineering Technology, AC

Program Requirements (31 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> IT 102 Fundamentals of Engineering Tech Design	3
<input type="checkbox"/> IT 105 Blueprint Reading & Sketching	2
<input type="checkbox"/> IT 107 Circuits I	3
<input type="checkbox"/> IT 112 Introduction to Engineering Technology Lab	2
<input type="checkbox"/> General Education Business or Computer Science Elective	3
	16
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing	3
<input type="checkbox"/> IT 211 Advanced Engineering Tech Design	3
<input type="checkbox"/> MA 110 College Algebra	3
<input type="checkbox"/> Program Elective*	3
<input type="checkbox"/> Program Elective*	3
	15
<b>Total Credits 31</b>	

**\*Program Electives**

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

**\*Business and Computer Science Electives**

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

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

- Apply algebra to analyze simple electrical circuits.
- Develop a technical drawing in free hand and computer aided format.
- Locate information resources and successfully retrieve data for employment.
- Successfully employ test and measurement equipment.

Gainful Employment Link  
[www.cccnj.edu/gainfulemployment](http://www.cccnj.edu/gainfulemployment)

Employment Opportunities  
CAD drafters, CAD designer, CAD manager.

# Engineering Technology/ Electronics Technology, AC

**Academic Certificate**  
Engineering Technology/  
Electronics Technology

**Curriculum Code:**  
**ENG.TECH.ELEC.AC**

**Program Information**

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

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

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

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree.

Program Requirements (31 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> CM 126 Industrial Wiring	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or Computer Science Elective	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> IT 107 Circuits I	3
<input type="checkbox"/> IT 111 Electronics	4
	16

**Year 1, Spring Semester**

<input type="checkbox"/> IT 205 Digital Electronics	3
<input type="checkbox"/> IT 218 Programmable Logic Controllers	3
<input type="checkbox"/> MA 110 College Algebra	3
<input type="checkbox"/> PI 124 Fundamentals of Physics II	4
<input type="checkbox"/> Program Elective*	3
	15

**Total Credits 31**

**\*Program Electives**

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

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

- Successfully employ test and measurement equipment.
- Locate information resources and successfully retrieve data for employment.
- Apply algebra to analyze simple electrical circuits.
- Employ standardized industrial equipment such as PLC and be capable to apply the principles of quality control.

**Employment Opportunities**

Electronics technician, electromechanical, industrial technician.

**Gainful Employment Link**

[www.cccnj.edu/gainfulemployment](http://www.cccnj.edu/gainfulemployment)

# Engineering Technology/ Electronics Technology, CC

**Career Certificate**

Engineering Technology/  
Electronics Technology

**Curriculum Code:**

**ENG.TECH.ELEC.CC**

**Program Information**

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

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree.

Program Requirements 17 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> IT 107 Circuits I	3
<input type="checkbox"/> IT 111 Electronics	4
<input type="checkbox"/> IT 205 Digital Electronics	3
<input type="checkbox"/> IT 218 Programmable Logic Controllers	3
<input type="checkbox"/> PI 124 Fundamentals of Physics II	4
	17

**Total Credits 21**

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

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

**Employment Opportunities**

Manufacturing, merchandising, testing, installing, monitoring, modifying and repairing electrical and electronic equipment systems.

**Degree Offered**  
Associate in Fine Arts  
Fine Arts

**Curriculum Code: FA.AFA**

**Program Information**

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

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

**Impressive Facilities**

The Frank Guaracini Jr. Fine and Performing Arts Center is the cultural hub of the region. The center houses the art gallery, art studios and a cutting edge computer graphics laboratory. Ceramics courses are taught at Clay College in the Millville Arts District.

**When You Graduate**

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

# Fine Arts, AFA

Program Requirements (60 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> AR 110 Fundamentals of Drawing I	3
<input type="checkbox"/> AR 115 Painting I	3
<input type="checkbox"/> CR 101 Ceramics I	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Math or Science Elective	<u>3/4</u>
	15/16
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> AR 107 Art History I	3
<input type="checkbox"/> AR 113 Fundamentals of Drawing II	3
<input type="checkbox"/> AR 120 Printmaking I	3
<input type="checkbox"/> AR 200 2-D Design	3
<input type="checkbox"/> EN 102 English Composition II	<u>3</u>
	15
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> AR 108 Art History II	3
<input type="checkbox"/> AR 140 Sculpture I	3
<input type="checkbox"/> AR 213 Life Drawing	3
<input type="checkbox"/> CG 101 Introduction to Computer Graphics	3
<input type="checkbox"/> General Education Diversity Elective	<u>3</u>
	15
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> AR 202 Color Theory and Practice	3
<input type="checkbox"/> AR 205 3-D Design	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Program Elective*	3
<input type="checkbox"/> Program Elective*	<u>3</u>
	15
<b>Total Credits 60</b>	

**\*Program Electives**

AR 112 Watercolor Painting	3
AR 145 Sculpture II	3
AR 215 Painting II	3
CG 114 Digital Photography	3
CR 102 Ceramics II	3

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

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

**Degree Offered**

Associate in Fine Arts  
Fine Arts/Theatre/Acting

**Curriculum Code: THEAT.ACT.AFA**

**Program Information**

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

**When You Graduate**

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

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# Fine Arts/Theatre/Acting, AFA

Program Requirements (60/61 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> TH 101 Theatre Appreciation	3
<input type="checkbox"/> TH 111 Production and Performance I	1
<input type="checkbox"/> TH 120 Acting I	3
<input type="checkbox"/> General Education Math or Science Elective	3/4
<input type="checkbox"/> Program Elective*	<u>3</u>
	16/17

**Year 1, Spring Semester**

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> TH 201 Theatre History	3
<input type="checkbox"/> TH 150 Stagecraft	3
<input type="checkbox"/> TH 212 Production and Performance II	1
<input type="checkbox"/> TH 220 Acting II	3
<input type="checkbox"/> Program Elective*	<u>3</u>
	16

**Year 2, Fall Semester**

<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> TH 213 Production and Performance III	1
<input type="checkbox"/> TH 221 Acting III	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Program Elective*	3
<input type="checkbox"/> Program Elective*	<u>3</u>
	16

**Year 2, Spring Semester**

<input type="checkbox"/> TH 222 Acting IV	3
<input type="checkbox"/> General Education Diversity Elective (MU 115 recommended)	3
<input type="checkbox"/> Program Elective*	3
<input type="checkbox"/> Program Elective*	<u>3</u>
	12

**Total Credits 60/61**

**\*Program Electives**

TH 104 Voice for the Actor I	3	EN 222 Drama	3
TH 105 Movement for the Actor I	3	TH 123 Directing	3
TH 204 Singing for the Actor I	3	TH 128 Acting for Television	3
TH 207 Stage Makeup	3	TH 208 Children's Theatre	3
MU 146 Music of the Theatre	3	TH 205 Movement for the Actor II	3
TH 230 Readers Theatre	3	TH 206 Theatre Dance	3

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

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

**Degree Offered**  
 Associate in Arts  
 Liberal Arts/Art Education

**Curriculum Code: ART.EDU.AA**

**Program Information**

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

**Impressive Facilities**

The Frank Guaracini Jr. Fine and Performing Arts Center is the cultural hub of the region. The center houses the art gallery, art studios and a cutting edge computer graphics laboratory. Ceramics courses are taught at Clay College in the Millville Arts District.

**When You Graduate**

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

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# Liberal Arts/Art Education, AA

Program Requirements (60/62 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> AR 110 Fundamentals of Drawing I	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Technology Literacy	2/3
<input type="checkbox"/> ED 101 Historical Foundations of Education	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 109 Principles of Math or MA 115 Mathematical Structures & Algorithms	3
	14/15
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> AR 107 Art History I	3
<input type="checkbox"/> CR 101 Ceramics I	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> General Education History Elective	3
	15
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> PY 102 Child Psychology	3
<input type="checkbox"/> PY 214 Human Exceptionality or Program Elective*	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Science Elective	4
	16
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> PY 213 Educational Psychology	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Math or Science Elective	3/4
	15/16
<b>Total Credits 60/62</b>	

**\*Program Electives**

AR 115 Painting I	3
AR 140 Sculpture I	3
CR 102 Ceramics II	3
PY 204 Psychology of Adolescence	3

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

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

**Degree Offered**

Associate in Arts  
Liberal Arts/Art Education

**Curriculum Code: ART.THERAPY.AA**

**Program Information**

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

**When You Graduate**

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

# Liberal Arts/Art Therapy, AA

Program Requirements (60/62 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> AR 103 Introduction to Art Therapy and Methods	3
<input type="checkbox"/> AR 110 Fundamentals of Drawing I	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Technology Literacy	2/3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 109 Principles of Math or MA 205 Statistics	3
	14/15

**Year 1, Spring Semester**

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

**Year 2, Fall Semester**

<input type="checkbox"/> AR 104 Art Therapy and Practice	3
<input type="checkbox"/> PY 207 Human Growth and Development	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> General Education Humanities Elective	3
	16

**Year 2, Spring Semester**

<input type="checkbox"/> AR 200 2-D Design	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Math or Science Elective	3/4
	15/16

**Total Credits 60/62**

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

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

**Degree Offered**  
 Associate in Arts  
 Liberal Arts/Ceramics

**Curriculum Code: CERAM.AA**

**Program Information**

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

**When You Graduate**

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

# Liberal Arts/Ceramics, AA

Program Requirements (60/63 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> AR 110 Fundamentals of Drawing I	3
<input type="checkbox"/> CR 101 Ceramics I	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Technology Literacy	2/3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Mathematics Elective	<u>3/4</u>
	14/16
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> AR 107 Art History I	3
<input type="checkbox"/> CR 102 Ceramics II	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	<u>3</u>
	15
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> AR 108 Art History II	3
<input type="checkbox"/> CR 105 Sculptural Ceramics or CR 106 Ceramic Technologies	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> General Education Social Science Elective	<u>3</u>
	16
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> AR 205 3-D Design	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Math or Science Elective	3/4
<input type="checkbox"/> General Education Social Science Elective	<u>3</u>
	15/16
<b>Total Credits 60/63</b>	

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

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

**Degree Offered**

Associate in Arts  
Liberal Arts/Design/Fine Arts

**Curriculum Code: DSGN.FA.AA**

**Program Information**

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

**When You Graduate**

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

# Liberal Arts/ Design/Fine Arts, AA

Program Requirements (60/63 credits) Credits

**Year 1, Fall Semester**

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

**Year 1, Spring Semester**

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

**Year 2, Fall Semester**

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

**Year 2, Spring Semester**

<input type="checkbox"/> AR 200 2-D Design	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> Program Elective*	<u>3</u>
	15

**Total Credits 60/63**

**\*Program Electives**

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

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

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

**Degree Offered**

Associate in Arts  
Liberal Arts/Music

**Curriculum Code: MUSIC.AA**

**Program Information**

The Associate in Arts degree in Music is a comprehensive course of study preparing the student to transfer to a four-year institution in music or a music related field, or to enter the music industry or a related field. RCSJ offers a wide variety of courses to satisfy the diverse interests and needs of its students. The program has a rich history of involvement in cultural and outreach activities within the community through the Concert Band, Jazz Band, and Chorus.

**Impressive Facilities**

The Frank Guaracini Jr. Fine and Performing Arts Center is the cultural hub of the region. It houses the 500-seat George P. Luciano Sr. Theatre, which showcases local, regional and national talent year-round.

**When You Graduate**

You may choose to transfer to a four-year college or music school. Cumberland graduates have successfully obtained bachelor's degrees and beyond at every college in New Jersey and scores of colleges and universities throughout America.

Graduates perform as musicians and give private music lessons. Many go into music education where there are numerous opportunities in a variety of settings. The choice of becoming a teacher, on any grade level, provides a great deal of satisfaction. For the amateur performer, there are small theatres and ensembles looking for that rising star.

Professionally, there are many opportunities on and off Broadway, at Atlantic City casinos and in major metropolitan areas such as Philadelphia, Newark and Camden. Increasingly, communities realize that the arts enhance their quality of life, which is vital for economic development.

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# Liberal Arts/Music, AA

Program Requirements (61/63 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> Applied Music I	1
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Technology Literacy	2/3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics Elective	3/4
	15/17

**Year 2, Spring Semester**

<input type="checkbox"/> Applied Music II	1
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MU 103 Music Theory I	2
<input type="checkbox"/> MU 112 Ear Training and Sight Singing	2
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education History Elective	3
	14

**Year 2, Fall Semester**

<input type="checkbox"/> Ensemble I / Chorus I	1
<input type="checkbox"/> MU 104 Music Theory II	2
<input type="checkbox"/> MU 113 Ear Training and Sight Singing II	2
<input type="checkbox"/> MU 114 History of Music	3
<input type="checkbox"/> MU 214 MIDI & Audio Recording	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> General Education Math or Science Elective	3/4
	17/18

**Year 2, Spring Semester**

<input type="checkbox"/> Ensemble II / Chorus II	1
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> MU 115 History of Jazz and Popular Music	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> General Education Science Elective	4
	14

**Total Credits 60/63**

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

- Explain, identify, and apply musical elements and techniques of music theory and aural theory.
- Demonstrate performing competence in their major area of study and in their particular ensemble performing areas.
- Recognize the historical basis of the development of musical forms and genres in its cultural context.
- Describe music technology in its various forms for teaching, composition, and scholarly pursuits.
- Locate, retrieve and critically evaluate information and information sources.

**Academic Certificate**  
Ceramic Technology

**Curriculum Code: CERAM.AC**

**Program Information**

Clay College’s credit and continuing education ceramics courses are popular among young and old students who take the courses during the day, in the evening and on weekends. Students can take ceramics courses with a career in mind or for personal enrichment.

Both credit and non-credit students learn to mold and fire ceramics, and “throw pots” at Cumberland County College’s Clay College, located on High Street in the Millville Arts District. Residents and students of Clay College form distinctive pottery and sculpture by using various hand building techniques including pinch, coil slab and the pottery wheel.

**Impressive Facility**

Clay College is a spacious facility that’s 150 feet long, and equipped with 15 pottery wheels and four kilns. The gallery at the entrance showcases the work of students as well as local and regional artists.

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain an associate’s degree and beyond.

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# Ceramic Technology, AC

Program Requirements (33 credits) Credits

**Year 1, Fall Semester**

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

**Year 1, Spring Semester**

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

**Year 2, Fall Semester**

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

**Total Credits 33**

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

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

Gainful Employment Link  
[www.cccnj.edu/gainfulemployment](http://www.cccnj.edu/gainfulemployment)

Employment Opportunities  
Kiln repair & maintenance, Ceramic Technician within a higher learning institution (ceramic or glass studio), Self employed artisan or consultant/freelance technician providing technical information for school or private ceramic studio, Glass or ceramic kiln assistant technician assisting in fabrication and installation of kilns.

**Degree Offered**  
Associate in Fine Arts  
Glass Technology

**Curriculum Code: GLASS.ACD.AFA**

**Program Information**

The Associate in Fine Arts (A.F.A.) program in Glass Art embraces an approach to design rooted in the history and culture of making. The curriculum provides students with a carefully planned program of study that focuses on exploring contemporary applied craft and design practice, the acquisition of traditional hand skills in varied glassmaking techniques, and complementary studies in art history, digital imaging and professional presentation. The program – in which design, collaboration, community and creative expression play an integral part – allows students to see their work develop from initial idea to finished product, under technical and creative guidance.

**When You Graduate**

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

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# Glass Art, AFA

A collaborative A.F.A. program with Salem Community College

Program Requirements (60 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> AR 104 Drawing @ Cumberland	3
<input type="checkbox"/> ART 115 Two-Dimensional Design*	3
<input type="checkbox"/> ART 116 Three-Dimensional Design*	3
<input type="checkbox"/> EN 101 English Composition I @ Cumberland	3
<input type="checkbox"/> FNA 115 Glass Survey I: Techniques*	3
	15
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> ART 130 Figure Drawing*	3
<input type="checkbox"/> EN 102 English Composition II @Cumberland	3
<input type="checkbox"/> FNA 120 Cold Glass Assemblage & Surface Treatment*	3
<input type="checkbox"/> FNA 221 Kiln Techniques*	3
<input type="checkbox"/> General Education Social Science Elective	3
	15
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> AR 107 Art History I @ Cumberland	3
<input type="checkbox"/> ART 205 Basic Digital Photography*	3
<input type="checkbox"/> ART 225 Portfolio & Professional Practices*	3
<input type="checkbox"/> FNA 110 Principles of Flameworking*	3
<input type="checkbox"/> FNA 150 Glassblowing I*	3
	15
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> AR 108 Art History II @ Cumberland	3
<input type="checkbox"/> FNA 210 Sculptural Approaches to Flame worked Glass*	3
<input type="checkbox"/> FNA 250 Glassblowing II *	3
<input type="checkbox"/> General Education Math Elective	3/4
<input type="checkbox"/> General Education Elective	3
	15/16
<b>Total Credits 60</b>	

\* Class held at Salem Community College

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

- Demonstrate the ability to work collaboratively with professional designers, artists, fabricators and manufacturers, as well as clients and colleagues.
- Demonstrate critical-thinking and problem-solving abilities.
- Demonstrate an understanding of contemporary craft and design practice, project development strategies, and glass-forming processes and techniques; and
- Outline and successfully execute a project plan from initial idea or inspiration to the design, fabrication and marketing of a product.

**Degree Offered**

Associate in Applied Science  
Scientific Glass Technology

**Curriculum Code: SCI.GLASS.TECH.AAS**

**Program Information**

Scientific glassblowers create glass apparatus for scientific research in laboratories, universities and industry. The only program of its kind in the nation, Scientific Glass Technology combines classroom study and hands-on laboratory techniques, technical drawing and advanced fabrication. Students develop a solid understanding of scientific glassblowing so that they are able to fabricate apparatus according to technical specifications.

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges. Students are encouraged to visit the NJ transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

# Scientific Glass Technology, AAS

A collaborative A.A.S. program with Salem Community College

Program Requirements (61/62 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> CS 101 Introduction to Microcomputers @ Cumberland	3
<input type="checkbox"/> EN 101 English Composition I @ Cumberland	3
<input type="checkbox"/> SGT 113 Introduction to Scientific Glass*	6
<input type="checkbox"/> General Education Humanities Elective @ Cumberland	3
	15

**Year 1, Spring Semester**

<input type="checkbox"/> EN 103 Technical Writing @ Cumberland	3
<input type="checkbox"/> SGT 114 Basic Apparatus Fabrication*	6
<input type="checkbox"/> SGT 115 Technical Drawing and CAD for Glassblowers*	3
<input type="checkbox"/> General Education Social Science Elective @ Cumberland	3
	15

**Year 2, Fall Semester**

<input type="checkbox"/> BUS 102 Introduction to Business*	3
<input type="checkbox"/> CHM 103 Basic & Organic Chemistry I*	3
<input type="checkbox"/> SGT 210 Advanced Fabrication I*	6
<input type="checkbox"/> Open Elective @ Cumberland	3
	15

**Year 2, Spring Semester**

<input type="checkbox"/> CHM 108 Organic Chemistry for Glassblowers*	4
<input type="checkbox"/> FNA 120 Cold Glass Assemblage & Surface Treatment*	3
<input type="checkbox"/> SGT 211 Advanced Fabrication II*	6
<input type="checkbox"/> General Education Math Elective	3/4
	16/17

**Total Credits 61/62**

**\*Class must be completed at Salem Community College.**

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

- Utilize and improve skills to fabricate more intricately designed glass apparatus.
- Fabricate functional apparatus according to research and industrial technical specifications.
- Demonstrate the ability to produce, read and understand glass shop drawings.

**Degree Offered**

Associate in Applied Science  
Graphic Design

**Curriculum Code: GRAPHIC.DSGN.AAS**

**Program Information**

This program provides students with a strong practical and conceptual foundation in the areas of print, screen-based and motion work. Graduates are prepared to assume entry-level jobs as design layout artists, production assistants, junior graphic designers and web/motion graphic artists. Graphic Design graduates may work for advertising and marketing firms, television post production studios, printers and print companies and non-profit and corporate in-house department.

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges.

Students are encouraged to visit the NJ transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

The latest technology and learning tools support your education for a wide range of employment opportunities.

# Graphic Design, AAS

Program Requirements (60 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> AR 110 Fundamentals of Drawing I	3
<input type="checkbox"/> CG 101 Introduction to Computer Graphics	3
<input type="checkbox"/> CG 113 Graphic Web Design	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 109 Principles of Mathematics	3
	15
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> AR 108 Art History II	3
<input type="checkbox"/> AR 200 2-D Design	3
<input type="checkbox"/> CG 102 Computer Illustration	3
<input type="checkbox"/> CG 112 Introduction to Motion Graphics	3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing	3
	15
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> CG 110 Digital Imaging Techniques	3
<input type="checkbox"/> CG 201 Fundamentals of Graphic Design	3
<input type="checkbox"/> EN 241 Publication Layout Design	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> SP 203 Effective Speech	3
	15
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> CO 118 Audio Production	3
<input type="checkbox"/> CG 203 Communication Design	3
<input type="checkbox"/> CG 204 Graphic Design Internship	3
<input type="checkbox"/> CG 205 Portfolio Preparation and Presentation	3
<input type="checkbox"/> General Education Diversity Elective	3
	15
<b>Total Credits 60</b>	

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

- Define the visual elements and design principles, including the terms associated with each in written form.
- Show proficiency in a variety of computer skills in both Adobe Photoshop and Adobe Illustrator.
- Utilize historical references and be able to locate and critically evaluate information and information sources.
- Create a portfolio from both classes and a community internship that conforms to industry standards for employment in graphic design.
- Use standard desktop publishing software including Quark and InDesign.

**Employment Opportunities**

Entry-level design layout artists, production assistants, junior graphic designers and web/motion graphic artists.

**Degree Offered**

Associate in Arts  
Liberal Arts/Graphic Arts

**Curriculum Code: GRAPHIC.ARTS.AA**

**Program Information**

This program is for students who wish to earn an associate degree in art with a graphic design emphasis. Throughout the two-year program, students are introduced to drawing, color, computer graphics, illustration and emerging technologies.

Working with Macintosh computers, students will learn skills in computer graphics and desktop publishing that will equip them to continue their studies at a four-year institution or to earn entry level positions as graphic designers in the art, publishing and corporate environments.

**When You Graduate**

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

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# Liberal Arts/Graphic Arts, AA

Program Requirements (60/63 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> AR 110 Fundamentals of Drawing I	3
<input type="checkbox"/> CG 101 Introduction to Computer Graphics	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Technology Literacy	2/3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Mathematics Elective	<u>3/4</u>
	14/16
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> AR 107 Art History I	3
<input type="checkbox"/> AR 200 2-D Design	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	<u>3</u>
	15
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> CG 102 Computer Illustration	3
<input type="checkbox"/> EN 241 Publication Layout and Design	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> General Education Social Science Elective	<u>3</u>
	16
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> CG 110 Digital Imaging or CG 114 Digital Photography	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Mathematics or Science Elective	3/4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> General Education History Elective	<u>3</u>
	15/16
<b>Total Credits 60/63</b>	

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

- Define the visual elements and design principles, including the terms associated with each in written form.
- Use standard graphic design software including Adobe Photoshop and Adobe Illustrator.
- Utilize historical references and be able to locate and critically evaluate information and information sources.
- Create a portfolio that conforms to the basic requirements to transfer successfully into a Graphic Design BA or BFA program.
- Use standard desktop publishing software including Quark and InDesign.

# Game Design & Development, AS

A joint AS degree program with Salem Community College.

## Degree Offered

Associate in Science  
Game Design & Development

## Curriculum Code: GAME.DSGN.AS

### Program Information

The Game Design and Development program combines both the programming and design aspects of creating video games for major platforms, consoles and mobile devices. The program further provides preparation in virtualization for medical, educational and military applications, as well as the next round of interactive applications. Combining the skills of graphic design, interactive design, and 3D skills and programming, this interdisciplinary degree program prepares students for the exciting world of game design and development.

### When You Graduate

AS programs are primarily designed for students who plan to transfer as juniors at four year colleges and universities. Cumberland graduates have obtained bachelor's degrees and beyond from every college in New Jersey and scores of colleges and universities throughout America. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

Program Requirements (62 credits) Credits

### Year 1, Fall Semester @ Cumberland County College

<input type="checkbox"/> AR 101 Art Appreciation	3
<input type="checkbox"/> CG 101 Computer Graphics	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 110 College Algebra	3
	<hr/> 15

### Year 1, Spring Semester @ Cumberland County College

<input type="checkbox"/> AR 110 Fundamentals of Drawing	3
<input type="checkbox"/> CG 102 Computer Illustration	3
<input type="checkbox"/> CG 110 Digital Imaging Techniques	3
<input type="checkbox"/> MA 120 Trigonometry	4
<input type="checkbox"/> SP 203 Effective Speech	3
	<hr/> 16

### Summer Semester @ Salem Community College

<input type="checkbox"/> CGA 160 Introduction to Game Engines	3
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### Year 2, Fall Semester @ Salem Community College

<input type="checkbox"/> CGA 142 Animation for the Web	3
<input type="checkbox"/> CGA 162 Introduction to Game Programming	3
<input type="checkbox"/> CGA 164 Audio and Video for Game Design	3
<input type="checkbox"/> HIS 101 Western Civilization I	3
<input type="checkbox"/> PHY 101 Physics I	4
	<hr/> 16

### Year 2, Spring Semester @ Salem Community College

<input type="checkbox"/> CGA 135 Introduction to 3-D Modeling Techniques	3
<input type="checkbox"/> CGA 161 Game Engines II	3
<input type="checkbox"/> HIS 102 Western Civilization II	3
<input type="checkbox"/> PSY 101 General Psychology	3
	<hr/> 12

**Total Credits 62**

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

- Demonstrate an understanding of the workflow involved in designing and developing a game or training simulation environment.
- Demonstrate the ability to use game engine platforms.
- Create user interfaces.
- Design user experiences.
- Employ programming techniques to create complex environments with physics, logic and purpose.
- Locate, discern and effectively use information to solve problems in the design and development of games.

### Transfer of Credits

Game Design and Development graduates may transfer credits to a bachelor's degree program at a four-year college or university.

# Multimedia Design, AC

## Academic Certificate

Multimedia Design

**Curriculum Code: GRAPHIC.D.PUB.AC**

### Program Information

This program prepares students to obtain graphic designer positions at businesses and agencies, or to operate their own graphics business.

Since experience and work samples are important for success in the field, students participate in graphic design internships at area firms and learn to prepare and present portfolios.

The instructors are college professors and professional practitioners in the field. In the cutting-edge Mac Lab in the Frank Guaracini Jr. Fine and Performing Arts Center, students use industry standard equipment to learn real world applications.

### When You Graduate

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree.

Program Requirements (30 credits) Credits

#### Year 1, Fall Semester

<input type="checkbox"/> AR 110 Fundamentals of Drawing I	3
<input type="checkbox"/> CG 101 Introduction to Computer Graphics	3
<input type="checkbox"/> EN 241 Publication Layout and Design	3
<input type="checkbox"/> CG 113 Graphic Web Design	3
<input type="checkbox"/> EN 101 English Composition	3
	15

#### Year 1, Spring Semester

<input type="checkbox"/> AR 200 2-D Design	3
<input type="checkbox"/> CG 102 Computer Illustration	3
<input type="checkbox"/> CG 110 Digital Imaging	3
<input type="checkbox"/> EN 231 News Writing I	3
<input type="checkbox"/> General Education Humanities Elective	3
	15

**Total Credits 30**

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

- Use standard graphic design software including Photoshop and Illustrator.
- Perform operations using a Mac® and other graphic design hardware.
- Use standard desktop publishing software including Quark and InDesign.
- Define the visual elements and design principles, including the terms associated with each in written form.

**Degree Offered**

Associate in Science  
Biomedical Science/Healthcare

**Curriculum Code: BIOMED.HC.AS**

**Program Information**

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

**When You Graduate**

A.S. programs are primarily designed for students who plan to transfer as juniors to four-year colleges and universities. Graduates of this program will be prepared for entry into baccalaureate programs in healthcare.

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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

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

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# Biological Science/ Health Science, AS

Program Requirements (60/64 credits)	Credits
<b>Year 1 Fall Semester</b>	
<input type="checkbox"/> BI 101 General Biology I	4
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> HS 101 Elements of Healthcare Careers	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> HS 103 Medical Terminology	2
	15
<b>Year 1 Spring Semester</b>	
<input type="checkbox"/> BI 106 Anatomy & Physiology I	4
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> PY 207 Human Growth & Development	3
<input type="checkbox"/> HS 115 Basic Nutrition	3
<input type="checkbox"/> HS 140 Legal & Ethical Issues in Healthcare	3
	16
<b>Year 2 Fall Semester</b>	
<input type="checkbox"/> BI 107 Anatomy & Physiology II	4
<input type="checkbox"/> CH 101 General Chemistry I	4
<input type="checkbox"/> Program Electives	3/4
<input type="checkbox"/> Program Electives	3/4
	14/16
<b>Year 2 Spring Semester</b>	
<input type="checkbox"/> Humanities General Education Elective	3
<input type="checkbox"/> SO 201 Introduction to Sociology	3
<input type="checkbox"/> Mathematics General Education Elective	3/4
<input type="checkbox"/> Program Electives	3/4
<input type="checkbox"/> Program Electives	3/4
	15/17
<b>Total Credits 60/64</b>	

**Health Track 13/14 cr**

BI 203 Microbiology	4
MA 205 Statistics	3
CS Elective	3/4
BI 210 Pathology	3

**Exercise Science Track 14/15 cr**

BI 102 General Biology II	4
CH 102 General Chemistry II	4
BI 216 Biomechanics	3
PI 123 Fundamentals of Physics I or HS 145 Exercise Science	4 3

**PLA Track 12 cr**

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

**Academic Certificate**  
Health Science

**Curriculum Code: HSCI.AC**

**Program Information**

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

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

Individuals who are, or are in training, as pharmacy technicians, dental assistants, emergency medical technicians, LPNs, phlebotomists, medical assistants, radiographers, etc., and military trained health practitioners may consider this program.

This program allows for the granting of four college credits for a current Home Health Aide (HHA), Certified Nurse's Aide (CNA) or other Healthcare credential with a positive employer review.

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

**When You Graduate**

Students can continue on in Cumberland's A.A.S. in Health Science or Cumberland's A.S. in Biomedical Science: Healthcare Option. Students obtaining this certificate can also seek professional advancement in a healthcare profession.

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree.

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# Health Science, AC

Program Requirements (30/31 credits) Credits

**Year 1, Fall Semester**

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

**Year 1, Spring Semester**

<input type="checkbox"/> BI 106 Anatomy & Physiology I	4
<input type="checkbox"/> HS 101 Elements of Healthcare Careers	3
<input type="checkbox"/> PY 207 Human Growth and Development	3
<input type="checkbox"/> Healthcare Credential Evaluation*	4
	14

**Total Credits 30/31**

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

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

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

**Employment Opportunities**

Managerial or supervisory positions in an allied health field.

**Gainful Employment Link**

[www.cccnj.edu/gainfulemployment](http://www.cccnj.edu/gainfulemployment)

# Health Information Technology, AAS

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

Program Requirements (67 credits) Credits

## Year 1 @ Cumberland County College

### Fall Semester

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

### Spring Semester

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

## Year 2 @ Camden County College online

### Summer Semester

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

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

### Spring Semester

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

**Total Credits 67**

### Upon completion of the program, students should be able to:

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

### Degree Offered

Associate in Applied Science  
Health Information Technology

### Curriculum Code: HIT.AAS

### Program Information

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

### When You Graduate

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges. Students are encouraged to visit the NJ transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

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

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# Healthcare Risk Management, CC

## Degree Offered

Associate in Applied Science  
Health Information Technology

## Curriculum Code: HEALTH.RISK.CC

## Program Information

The Healthcare Risk Management Career Certificate is available to degree-bearing healthcare professionals seeking to expand or advance their career into this dynamic field. As control of risk becomes increasingly important in a vast range of clinical settings, the need for administrators and practitioners with advanced training in this area grows. This program targets risk evaluation and mitigation in the development of risk management plans for enterprise risk and patient safety. Targeted professionals include nurses, therapists and administrators working in private practices, clinics, rehabilitation centers, hospitals and long-term care facilities.

Program Requirements	(12 credits)	Credits
<input type="checkbox"/> RM 201 Introduction to Healthcare Risk Management		3
<input type="checkbox"/> RM 202 Regulatory Healthcare and Patient Safety Compliance		3
<input type="checkbox"/> RM 203 Healthcare Liability and Risk Management		3
<input type="checkbox"/> RM 204 Emerging Topics in Healthcare Risk Management		<u>3</u>
		12

**Total Credits 12**

### Upon completion of the program, students should be able to:

- Identify areas of exposure to risk in the healthcare setting.
- Assess relative risk, cost and effectiveness of risk mitigation.
- Collect and organize accurate and effective risk documentation.
- Guide organizational policy regarding risk in the healthcare setting.
- Develop an appropriate risk management plan.

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**Academic Certificate**

Academic Certificate  
Medical Coding

**Curriculum Code: HIT.MDC.AC**

**Program Information**

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

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

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree.

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# Medical Coding, AC

A joint certificate program with Camden County College

Program Requirements (39 credits) Credits

**Year 1, Fall Semester @ Cumberland County College**

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

**Year 1, Spring Semester @ Camden County College online**

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

**Year 2, Fall Semester @ Camden County College online**

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

**Total Credits 39**

**Upon completion of the program, students should be able to:**

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

Gainful Employment Link  
[www.cccnj.edu/gainfulemployment](http://www.cccnj.edu/gainfulemployment)

**Degree Offered**

Associate in Applied Science  
Nursing

**Curriculum Code: NUR.AAS**

**Program Information**

This program of theoretical and clinical study prepares students for an entry-level position as a Registered Nurse. The theoretical component is comprised of general education and nursing courses. The clinical component within the nursing courses provides the opportunity to practice giving direct nursing care to clients in acute, long-term and community health care agencies under the guidance of qualified nursing faculty.

Cumberland’s Nursing Program is accredited by the Accreditation Commission for Education in Nursing, Inc. (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326, 1-800-669-1656 and the New Jersey Board of Nursing, 124 Halsey Street, Newark, NJ 07102, 1-973-504-6430.

Upon completion of the program, graduates qualify to take the National Council of Licensure Examination for licensure as a Registered Nurse. Nurses practice in a wide variety of settings ranging from hospitals to laboratories.

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating, but those who change their plans find that most, sometimes all, of their Cumberland credits transfer to four-year colleges.

The latest technology and learning tools support your education for a wide range of employment opportunities.

According to the U.S. Bureau of Labor Statistics, nursing is the largest health care occupation with more than 2 million jobs and is one of the 10 occupations projected to have the largest numbers of new jobs.

# Nursing, AAS

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

Program Requirements (68 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> BI 106 Anatomy & Physiology I	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> NU 112 Introduction to Nursing Success	1
<input type="checkbox"/> NU 113 Nursing Concepts I	7
<input type="checkbox"/> PY 101 General Psychology	3
	18
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> BI 107 Anatomy & Physiology II	4
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing	3
<input type="checkbox"/> NU 114 Nursing Concepts II	7
<input type="checkbox"/> PY 207 Human Growth & Development	3
	17
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> BI 203 Microbiology	4
<input type="checkbox"/> NU 209 Nursing Concepts in Global Health and Diversity	1
<input type="checkbox"/> NU 210 Concepts in Nursing Practice III	10
<input type="checkbox"/> SO 201 Introduction to Sociology	3
	18
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> NU 211 Concepts in Nursing Practice IV	10
<input type="checkbox"/> NU 212 Concepts of Leadership in Health Care Systems	2
<input type="checkbox"/> General Education Humanities Elective	3
	15
<b>Total Credits 68</b>	

\*For progression in the program, a passing grade of 95 is needed on the medical dosage calculation exam given in all four core courses (NU 113, NU 114, NU 210, NU 211).

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

- Demonstrate clinical competence by using evidence based practice to provide quality patient centered care in a safe, supportive, collaborative environment.
- Demonstrate critical reasoning using the nursing process and reflection to address health care problems.
- Effectively communicate with patients, significant others, healthcare team, and community agencies to promote health.
- Effective use of technology for research, information processing, and communication.
- Participate in educational opportunities to foster competence in evidenced based nursing.

Employment Opportunities  
Registered nurse in a wide variety of settings ranging from laboratories to hospitals.

# Occupational Therapy Assistant, AS

A joint AS degree program with Rutgers University, Scotch Plains, NJ Campus

## Academic Certificate

Academic Certificate  
Medical Coding

### Curriculum Code: OTA.AS

#### Program Information

The 74-credit joint Associate of Science Degree Program in Occupational Therapy Assistant is offered in collaboration with Rutgers Partner Colleges or Institutions. Students complete at least 32 general education credits at a College Partner as pre-requisite to the 42 credits of professional coursework at Rutgers. Admission to the Occupational Therapy Assistant Program at Rutgers, is competitive; completion of the pre-professional curriculum at a Partner College does not guarantee admission. **(NOTE: the Rutgers courses are offered at the Scotch Plains, NJ campus.)**

The Occupational Therapy Assistant (OTA) Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200 Bethesda, MD 20814-3449. ACOTE's telephone number c/o AOTA is (301) 652-AOTA and its Web address is [www.acoteonline.org](http://www.acoteonline.org)

Please visit the Rutgers OTA program website at <http://shp.rutgers.edu/dept/psyr/programs/asdota/>, for additional information.

#### When You Graduate

Graduates of an ACOTE accredited OTA program are eligible to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). In addition, most states, including New Jersey, require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination.

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

- Practice in a safe, ethical, and collaborative manner under the supervision of an occupational therapist in accordance with the regulations of the healthcare, educational, or community setting.
- Provide occupational therapy services to persons, groups, and populations from diverse experiences and cultures in health care, educational and community settings.
- Contribute to the evaluation process of the person, group, or population, by gathering information, implementing assigned assessments, and reporting results to the OT and treatment team.

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Program Requirements (74 credits) Credits

#### Year 1 @ Cumberland County College

##### Fall Semester

<input type="checkbox"/> BI 106 Anatomy & Physiology I	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> MA 205 Statistics	3
<input type="checkbox"/> General Education Diversity Elective	3
	<hr/> 16

##### Spring Semester

<input type="checkbox"/> BI 107 Anatomy & Physiology II	4
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> PY 207 Human Growth & Development	3
<input type="checkbox"/> SO 201 Introduction to Sociology	3
<input type="checkbox"/> PH 102 Introduction to Ethics	3
	<hr/> 16

#### Year 2 @ Rutgers University

##### Fall Semester

<input type="checkbox"/> OCTH 1010 Occupational Therapy Foundations for the OTA	3
<input type="checkbox"/> OCTH 1019 Level I Fieldwork A: Integration & Practice Applications	1
<input type="checkbox"/> OCTH 1020 Occupational Performance & Participation: Skills & Client Factors	3
<input type="checkbox"/> OCTH 1031 Conditions Impacting Occupations, Participation & Health I: Adult/Older Adult	2
<input type="checkbox"/> PSRT 1102 Communication Techniques	3
	<hr/> 12

##### Spring Semester

<input type="checkbox"/> OCTH 1029 Level I Fieldwork B: Integration & Practice Applications	1
<input type="checkbox"/> OCTH 1040 Occupational Performance & Participation: Therapeutic Applications	3
<input type="checkbox"/> OCTH 1051 Principles & Practices I: Wellness & Mental Health	2
<input type="checkbox"/> OCTH 1052 Principles & Practices II: Rehabilitation, Disability, Aging & Participation	3
<input type="checkbox"/> PSRT 1103 Group Dynamics	3
	<hr/> 12

##### Summer Session

<input type="checkbox"/> OCTH 1032 Conditions Impacting Occupation, Participation & Health II: Child/Adolescent	2
<input type="checkbox"/> OCTH 1039 Level I Fieldwork C: Integration & Practice Applications	1
<input type="checkbox"/> OCTH 1053 Principles & Practices III: Children & Youths	2
<input type="checkbox"/> OCTH 1071 Professional Seminar I	1
	<hr/> 6

##### Fall Semester

<input type="checkbox"/> OCTH 2019 OTA Practice: Fieldwork II Adult/Older Adult	5
<input type="checkbox"/> OCTH 2029 OTA Practice: Fieldwork II Child/Adolescent	5
<input type="checkbox"/> OCTH 2072 Professional Seminar II	2
	<hr/> 12

**Total Credits 74**

**Degree Offered**

Associate in Science  
Psychosocial Rehabilitation  
and Treatment

**Curriculum Code: PSY.REHAB.AS**

**Program Information**

A joint Associate of Science Degree in conjunction with Rutgers University, Blackwood, NJ Campus. Psychosocial rehabilitation is a field of practice that promotes recovery, full community integration and improved quality of life for persons diagnosed with severe mental illnesses. Psychiatric rehabilitation services focus on helping individuals develop skills and access resources needed to increase the capacity to be successful and satisfied in the living, working, learning, and social environments.

The Psychosocial Rehabilitation and Treatment program is a cooperative program offered by Cumberland and Rutgers University. Students complete 31 pre-professional credits in general education and science courses at Cumberland. The professional course component is completed at Rutgers University, Blackwood, NJ Campus, and the program's affiliated clinical sites.

**When You Graduate**

Graduates receive a joint degree from Cumberland and Rutgers. Program graduates are aligned into a dual bachelor of science degree in Psychiatric Rehabilitation and Psychology at Rutgers.

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# Psychosocial Rehabilitation and Treatment, AS

Program Requirements 61 credits) Credits

**Year 1 @ Cumberland County College**

**Fall Semester**

<input type="checkbox"/> BI 108 Human Biology	4
<input type="checkbox"/> CS 101 Introduction to Microcomputers	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> History General Education Elective	3
<input type="checkbox"/> PY 101 General Psychology	3
	16

**Spring Semester**

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> HS 140 Legal & Ethical Issues in Healthcare	3
<input type="checkbox"/> Mathematics General Education Elective (MA 110 Recommended)	3
<input type="checkbox"/> PY 207 Human Growth & Development	3
<input type="checkbox"/> SO 201 Introduction to Sociology	3
	15

**Year 2 @ Rutgers University**

**Fall Semester**

<input type="checkbox"/> PSRT 1101 Introduction to Psych Rehab	3
<input type="checkbox"/> PSRT 1102 Communication Techniques	3
<input type="checkbox"/> PSRT 1103 Group Interventions for People with Disabilities	3
<input type="checkbox"/> PSRT 1204 Clinical Principles in Psych Rehab	3
	12

**Spring Semester**

<input type="checkbox"/> PSRT 1019 Clinical I	6
<input type="checkbox"/> PSRT 2121 Community Resource Management	3
<input type="checkbox"/> PSRT 2231 Emerging Topics	3
	12

**Summer Semester**

<input type="checkbox"/> PSRT 2019 Clinical II	6
--	---

**Total Credits 61**

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

- Assist in the rehabilitative care of people with severe mental illness in structured programs.
- Demonstrate professional demeanor, behavior and attitudes.
- Promote the processes of recovery and wellness.
- Access wellness and recovery resources for personal and professional practice
- Implement evidence-based rehabilitation interventions.

**Degree Offered**

Associate in Applied Science  
Radiography

**Curriculum Code: RAD.AAS**

**Program Information**

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

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

**When You Graduate**

Graduates are employed by hospitals, clinics, diagnostic imaging centers and the offices of private physicians.

AAS programs are designed for students who want to enter a career directly after graduating, but those who change their plans find that most, sometimes all, of their Cumberland credits transfer to four-year colleges.

The latest technology and learning tools support your education for a wide range of employment opportunities.

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# Radiography, AAS

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

Program Requirements (69/70 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> BI 106 Anatomy & Physiology I	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> RT 101 Introduction to Radiography Science	3
<input type="checkbox"/> RT 102 Radiographic Procedures I	3
<input type="checkbox"/> RT 103 Clinical Practicum & Image Evaluation I	2
<input type="checkbox"/> RT 104 Radiographic Exposure I	2
	17
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> BI 107 Anatomy Physiology II	4
<input type="checkbox"/> CS 101 Introduction to Microcomputers or Computer Science Elective	3
<input type="checkbox"/> RT 106 Radiographic Exposure II	2
<input type="checkbox"/> RT 107 Radiographic Procedures II	3
<input type="checkbox"/> RT 110 Clinical Practicum & Image Evaluation II	2
<input type="checkbox"/> RT 121 Radiation Protection & Biology	3
	17
<b>Summer Semester</b>	
<input type="checkbox"/> RT 111 Clinical Practicum & Image Evaluation III	2
<input type="checkbox"/> RT 200 Clinical Practicum & Image Evaluation IV	2
	4
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> RT 201 Radiographic Procedures III	3
<input type="checkbox"/> RT 202 Clinical Practicum & Image Evaluation V	3
<input type="checkbox"/> RT 220 Equipment Operation & Maintenance I	2
<input type="checkbox"/> General Education Humanities Elective	3
	17
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> RT 205 Radiographic Procedures IV	3
<input type="checkbox"/> RT 206 Clinical Practicum & Image Evaluation VI	3
<input type="checkbox"/> RT 221 Equipment Operation & Maintenance II	2
<input type="checkbox"/> SO 201 Introduction to Sociology	3
<input type="checkbox"/> General Education Mathematics Elective (Excluding MA 109 & MA115)	3/4
	14/15
<b>Total Credits 69/70</b>	

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

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

Employment Opportunities  
Radiographer

**Academic Certificate**

Academic Certificate  
Practical Nursing

**Curriculum Code: PN.AC**

**Program Information**

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

Individuals who are at college level and who are eligible to take English 101, and Anatomy and Physiology I, may consider this Practical Nursing program. The Practical Nursing Program can be completed in one calendar year. Graduates are awarded an Academic Certificate in Practical Nursing. Cumberland’s Practical Nursing Program is accredited by the New Jersey Board of Nursing, 124 Halsey Street, Newark, NJ 07102, 1-973- 504-6430.

Upon completion of the program, graduates qualify to take the National Council of Licensure Examination for licensure as a Practical Nurse.

**When You Graduate**

This Academic Certificate program provides a career and degree pathway for those individuals who plan on receiving a practical nurse license. It also provides the opportunity for students to progress into a Registered Nurse Program.

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# Practical Nursing, AC

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

Program Requirements (34 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> BI 106 Anatomy & Physiology	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PN 101 Foundations of Practical Nursing Practice	7
	14

**Year 1, Spring Semester**

<input type="checkbox"/> HS 115 Basic Nutrition	3
<input type="checkbox"/> PN 102 Medical Surgical Practical Nursing	7
<input type="checkbox"/> PY 101 General Psychology	3
	13

**Year 1, Summer Semester**

<input type="checkbox"/> PN 103 Advanced Concepts in Practical Nursing	2
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**Year 1, Summer Semester**

<input type="checkbox"/> PN 104 Family-Centered Nursing Practice	5
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**Total Credits 34**

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

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

- Demonstrate clinical competence at a novice practical nurse level.
- Apply critical thinking principles using the nursing process to attain optimal level of client function.
- Demonstrate effective collaboration with the Registered Nurse in the assessment, planning, implementation and evaluation of patient care.
- Demonstrate effective communication with the client, significant others, health care providers and community agencies to provide holistic care.
- Demonstrate professionalism in nursing practice.
- Value participation in educational opportunities to maintain nursing competence.

Gainful Employment Link  
[www.cccnj.edu/gainfulemployment](http://www.cccnj.edu/gainfulemployment)

Employment Opportunities  
Licensed practical nurse

# Insurance Claims and Risk Management, AAS

## Degree Offered

Associate in Applied Science  
Insurance Claims and Risk  
Management

## Curriculum Code: INS.CLM.RSK. MGMT.AAS

### Program Information

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

### When You Graduate

As an A.A.S. degree this program is intended to prepare students for the workplace rather than for transfer. By additionally preparing students for The Institutes certification examinations, graduates of this program will be work-ready upon or even prior to degree completion.

Students will be prepared to take The Institutes certification examinations as they move through the program. At the completion of year one, full-time students who have passed The Institutes' exams will have earned their Associate in Claims (AIC) Certification. At the completion of the second year, in addition to completing their Cumberland A.A.S., students who have passed The Institute's exams will have earned their Associate in Risk Management (ARM) certification. Awarding of the Cumberland degree will not be dependent on achievement of The Institutes certification.

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Program Requirements (60 credits) Credits

### Year 1, Fall Semester

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

### Year 1, Spring Semester

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

### Year 2, Fall Semester

<input type="checkbox"/> EN 103 Technical Writing	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> MA 205 Statistics	3
<input type="checkbox"/> IN 206 Risk Management Principles and Practices	3
<input type="checkbox"/> PY 101 General Psychology	3
	<hr/> 15

### Year 2, Spring Semester

<input type="checkbox"/> IN 207 Risk Assessment and Treatment	3
<input type="checkbox"/> IN 208 Risk Financing	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers	3
<input type="checkbox"/> BU 247 Leadership	3
<input type="checkbox"/> General Education Diversity Elective	3
	<hr/> 15

Students may sit for The Institute's ARM exam at this time.

**Total Credits 60**

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

- Demonstrate knowledge of the CPCU Code of Professional Conduct, the nine CPCU Canons, and application of these to ethical dilemmas in insurance practice.
- Demonstrate mastery of the practical and legal details of insurance claims handling.
- Demonstrate techniques for identifying, analyzing, and treating risk based on common frameworks.

### Employment Opportunities

Claims adjusters, insurance examiners, analysts, specialists, appraisers, investigators, risk managers

**Degree Offered**

Associate in Science  
Justice Studies

**Curriculum Code: JS.CJ.AS**

**Program Information**

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

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

**When You Graduate**

You'll be ready for immediate employment or you can transfer to a four-year college. Cumberland has transfer agreements in criminal justice with several colleges, and graduates have transferred to scores of colleges and universities throughout the years.

Some career possibilities include employment with federal, state and county departments or institutions. Those with a bachelor's degree may hold a variety of administrative positions.

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

This program is designed for students who wish to enter a specific criminal justice field or continue their studies at a four-year college/university. Students are introduced to organizations, occupations and regulations that govern the criminal justice system and a range of job opportunities that await graduates as America becomes a more security-conscious society.

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# Justice Studies, AS

Program Requirements (60 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> CJ 207 Administration of Justice	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> CS 110 Technology Literacy	2
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PA 101 Public Administration	3
	14
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> CJ 102 Criminology & Penology	3
<input type="checkbox"/> CJ 104 Criminal Law	3
<input type="checkbox"/> CJ 115 Diversity Issues in Criminal Justice	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
	15
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> CS 241 Computer Forensics or PY 209 Abnormal Psychology	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> Criminal Justice Program Elective*	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Mathematics Elective (excluding MA 115)	3
	15
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> CJ 215 Criminal Justice Fieldwork	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> PS 201 American Federal Government or PS 203 State & Local Government	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Science Elective with lab	4
	16
<b>Total Credits 60</b>	

**\*Program Electives:**

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

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

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

**Employment Opportunities**

Federal law enforcement agent, lawyer, probation officer, parole officer, public safety planner, legal researcher or paralegal.

**Degree Offered**

Associate in Science  
Justice Studies/Corrections

**Curriculum Code: JS.CORR.AS**

**Program Information**

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

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

**When You Graduate**

You'll be ready for immediate employment or you can transfer to a four-year college. Cumberland has transfer agreements in criminal justice with several colleges, and graduates have transferred to scores of colleges and universities throughout the years.

Some career possibilities include employment with the federal, state and county institutions. Those with a bachelor's degree may hold a variety of administrative positions.

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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

*r<sup>c</sup>s<sup>j</sup>.edu*

# Justice Studies/ Corrections, AS

Program Requirements (60/61 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> CJ 207 Administration of Justice	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> CS 110 Technology Literacy	2
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PA 101 Public Administration	3
	14
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> CJ 102 Criminology & Penology	3
<input type="checkbox"/> CJ 104 Criminal law	3
<input type="checkbox"/> CJ 115 Diversity Issues in Criminal Justice	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
	15
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> CJ 211 Institutional Treatment of the Offender	3
<input type="checkbox"/> CJ 212 Principles of Corrections Operations	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics Elective	3/4
	15/16
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> CJ 214 Correctional Counseling & Interviewing	3
<input type="checkbox"/> CJ 215 Criminal Justice Fieldwork	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Science Elective with lab	4
	16

**Total Credits 60/61**

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

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

**Employment Opportunities**

Employment with Federal, state and county departments or institution.

# Justice Studies/ Forensics & Technology, AS

## Degree Offered

Associate in Science  
Justice Studies/  
Forensics & Technology

## Curriculum Code: JS.FOREN.TECH.AS

### Program Information

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

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

### When You Graduate

You'll be ready for immediate employment or you can transfer to a four-year college. Cumberland has transfer agreements in criminal justice with several colleges, and graduates have transferred to scores of colleges and universities throughout the years.

Some career possibilities include employment with federal, state and county departments or institutions. Those with a bachelor's degree may hold a variety of administrative positions.

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

This program is designed for students who wish to enter a specific criminal justice field or continue their studies at a four-year college/university. Students are introduced to organizations, occupations and regulations that govern the criminal justice system and a range of job opportunities that await graduates as America becomes a more security-conscious society.

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Program Requirements (60 credits) Credits

### Year 1, Fall Semester

<input type="checkbox"/> CJ 207 Administration of Justice	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PA 101 Public Administration	3
<input type="checkbox"/> CS110 Technology Literacy	<u>2</u>
	14

### Year 1, Spring Semester

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

### Year 2, Fall Semester

<input type="checkbox"/> CJ 120 Cybercrime or CS 241 Computer Forensics	3
<input type="checkbox"/> CJ 209 Criminalistics	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics Elective	<u>3</u>
	15

### Year 2, Spring Semester

<input type="checkbox"/> CJ 215 Criminal Justice Fieldwork	3
<input type="checkbox"/> CJ 216 Crime Analysis & Mapping	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Science Elective with lab	<u>4</u>
	16

**Total Credits 60**

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

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

### Employment Opportunities

Police officer with the necessary background to perform as an evidence technician.

**Degree Offered**

Associate in Science  
Justice Studies/Homeland Security

**Curriculum Code: JS.HOME.SEC.AS**

**Program Information**

This option will examine threats to the U.S. homeland with insight into the implications for maintaining homeland security. The concentration will examine this new concept for America and the basic responsibilities of defending the United States. This includes the study of counterterrorism and antiterrorism, law enforcement, border and transportation security, critical infrastructure protection, and emergency response.

**When You Graduate**

You'll be ready for immediate employment or you can transfer to a four-year college. Cumberland has transfer agreements in criminal justice with several colleges, and graduates have transferred to scores of colleges and universities throughout the years.

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

This program is designed for students who wish to examine threats to the U.S. homeland with insight into the implications for maintaining homeland security. Students who choose this options will understand the responsibilities of defending the United States.

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# Justice Studies/ Homeland Security, AS

Program Requirements (60 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> CJ 207 Administration of Justice	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PA 101 Public Administration	3
<input type="checkbox"/> CS110 Technology Literacy	<u>2</u>
	14

**Year 1, Spring Semester**

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

**Year 2, Fall Semester**

<input type="checkbox"/> CJ 120 Cybercrime	3
<input type="checkbox"/> CJ 130 Introduction to Emergency Management	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics Elective	<u>3</u>
	15

**Year 2, Spring Semester**

<input type="checkbox"/> CJ 215 Criminal Justice Fieldwork	3
<input type="checkbox"/> CJ 206 Terrorism	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Science Elective with lab	<u>4</u>
	16

**Total Credits 60**

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

- Demonstrate knowledge of the current trends, problems and concerns of the contemporary criminal justice, including terrorism, hate crime, cybercrime and societal violence.
- Identify the role of each component of the US criminal justice system.
- Demonstrate knowledge of the US Constitution and the constitutional implication of the criminal procedure in the US as applied to arrest, use of force, and search and seizure.
- Identify the moral, ethical and legal obligations of criminal justice professionals.
- Recognize the roles of various criminal justice professions.
- Locate, retrieve and critically evaluate information and information sources related to the profession.

**Employment Opportunities**

Law enforcement, law, corrections and private investigation.

**Academic Certificate**

Academic Certificate  
Justice Studies/Criminal Justice

**Curriculum Code: JS.CJ.AC**

**Program Information**

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

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree.

This program is designed for students who wish to enter a specific criminal justice field.

# Justice Studies/ Criminal Justice, AC

Program Requirements (29 credits) Credits

**Year 1, Fall Semester**

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

**Year 1, Spring Semester**

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

**Total Credits 29**

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

- Discuss the history and philosophy of the components of the criminal justice system.
- Describe the formal and informal political and community structures that affect criminal justice agencies.
- Recognize the roles of various criminal justice professionals.
- Describe the fundamental concepts and principles of management and administration employed in various police agencies.

**Employment Opportunities**

Police officer, crime scene investigator, private investigator.

**Gainful Employment Link**

[www.cccnj.edu/gainfulemployment](http://www.cccnj.edu/gainfulemployment)

**Degree Offered**

Associate in Arts  
Liberal Arts

**Curriculum Code: LIB.ARTS.GEN.AA**

**Program Information**

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

Cumberland has transfer agreements with a number of four-year colleges and universities.

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

**When You Graduate**

AA programs are primarily designed for students who plan to transfer as juniors at four year colleges and universities. Cumberland graduates have obtained bachelor's degrees and beyond from every college in New Jersey and scores of colleges and universities throughout America.

This program is designed for students who wish to enter a specific criminal justice field.

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# Liberal Arts, AA

Program Requirements (60/63 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Technology Literacy	2/3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Mathematics Elective	3/4
<input type="checkbox"/> General Education Humanities Elective	3
	<hr/> 14/16
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Program Elective*	3
	<hr/> 16
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics or Science Elective	3/4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Program Elective*	3
<input type="checkbox"/> Program Elective*	3
	<hr/> 15/16
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> Program Elective*	3
<input type="checkbox"/> Program Elective*	3
	<hr/> 15
<b>Total Credits 60/63</b>	

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

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

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

**Degree Offered**  
**Associate in Arts**  
 Liberal Arts/History

**Curriculum Code: HIST.LA.AA**

**Program Information**

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

The Liberal Arts/History program provides a well rounded foundation in liberal arts. Students will be asked to demonstrate skills in written composition, oral presentation, historical study. Majoring in history prepares students for careers in law, education, business, government service, social service, museums, and research.

**When You Graduate**

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

# Liberal Arts/History, AA

Program Requirements (60/63 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Technology Literacy	2/3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> HI 101 Western Civilization I	3
<input type="checkbox"/> General Education Mathematics Elective	3/4
<input type="checkbox"/> General Education Humanities Elective	<u>3</u>
	14/16

**Year 1, Spring Semester**

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> HI 102 Western Civilization II	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> PS 201 American Federal Government	<u>3</u>
	16

**Year 2, Fall Semester**

<input type="checkbox"/> HI 201 United States History I	3
<input type="checkbox"/> GE 101 World Regional Geography	3
<input type="checkbox"/> General Education Mathematics or General Education Science Elective	3/4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> Program Elective*	<u>3</u>
	15/16

**Year 2, Spring Semester**

<input type="checkbox"/> HI 202 United States History II	3
<input type="checkbox"/> HI 208 African American History or HI 113 Latin American History	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Program Elective*	<u>3</u>
	15

**Total Credits 60/63**

**\*Program Electives**

HI 103 World History and Culture I	3
HI 104 World History and Culture II	3
HI 113 Latin American History	3
HI 208 African American History	3

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

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

**Degree Offered**

Associate in Arts  
Liberal Arts/Literature

**Curriculum Code: LIT.LA.AA**

**Program Information**

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

Literature studies lead to careers in advertising, broadcasting, journalism, law, teaching, and writing

**When You Graduate**

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

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State Legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

# Liberal Arts/Literature, AA

Program Requirements (60/63 credits) Credits

**Year 1, Fall Semester**

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

**Year 1, Spring Semester**

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

**Year 2, Fall Semester**

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

**Year 2, Spring Semester**

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

**Total Credits 60/63**

**\*Literature Electives**

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

**\*\*Program Electives**

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

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

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

**Degree Offered**

Associate in Arts  
Liberal Arts/Philosophy & Religion

**Curriculum Code: PHL.REL.LA.AA**

**Program Information**

This program is designed to prepare students to pursue college or university studies leading to careers in philosophy and religion. Secondly, this program is an opportunity for people already engaged in religious work to acquire a general background beneficial to their profession.

**When You Graduate**

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

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

# Liberal Arts/ Philosophy & Religion, AA

Program Requirements (60/63 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Technology Literacy	2/3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> PH 101 Introduction to Philosophy	3
<input type="checkbox"/> HI 101 Western Civilization	3
<input type="checkbox"/> General Education Mathematics Elective	<u>3/4</u>
	14/16

**Year 1, Spring Semester**

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> RL 101 Perspectives of Religion	3
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Science Elective	<u>4</u>
	16

**Year 2, Fall Semester**

<input type="checkbox"/> PH 102 Introduction to Ethics	3
<input type="checkbox"/> RL 102 World Religions	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics or Science Elective	3/4
<input type="checkbox"/> General Education Social Science Elective	<u>3</u>
	15/16

**Year 2, Spring Semester**

<input type="checkbox"/> AN 102 Cultural Anthropology	3
<input type="checkbox"/> EN 205 Masterpieces of Western Literature I	3
<input type="checkbox"/> HI 103 World History and Culture I	3
<input type="checkbox"/> RL 103 Introduction to Asian Religions	3
<input type="checkbox"/> General Education Social Science Elective	<u>3</u>
	15

**Total Credits 60/63**

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

- Recognize and distinguish the philosophical and religious belief systems of diverse cultures from historical to contemporary periods.
- Demonstrate familiarity with the critical concepts and methods of philosophy and religion.
- Recognize the role that philosophy and religion plays in culture and society.
- Demonstrate knowledge of the historically significant philosophers and philosophical movements and their impact upon current ethical questions.
- Locate, retrieve and critically evaluate information and information sources.

**Degree Offered**

Associate in Arts Liberal Arts/Psychology

**Curriculum Code: PSYCH.AA**

**Program Information**

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

**Upon completion of this program, students will be able to:**

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

**When You Graduate**

AA programs are primarily designed for students who plan to transfer as juniors at four-year colleges and universities. Cumberland graduates have obtained bachelor's degrees and beyond from every college in New Jersey and scores of colleges and universities throughout America.

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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# Liberal Arts/Psychology, AA

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

*Fall 2019 and Spring 2020 students, follow this sequence then declare the major in Fall 2020.*

Program Requirements	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Mathematics Elective	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> FS 101 Freshman Seminar	1
<input type="checkbox"/> HI 101 Western Civilization I	3
	13
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 205 Statistics	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
<input type="checkbox"/> HI 102 Western Civilization II	3
<input type="checkbox"/> Psychology Elective	3
	15
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> BI 108 Human Biology	4
<input type="checkbox"/> General Education Literature Elective	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> AR 101 Art Appreciation or MU101 Music Appreciation	3
<input type="checkbox"/> Psychology Elective	3
	16
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education Science Elective	4
<input type="checkbox"/> PH 101 Introduction to Philosophy	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> Psychology Elective	3
	16
<b>Total Credits 60</b>	

*Choose to finish with your AA, or continue to the third year for the 3+1 option.*

<b>Year 3, Fall Semester</b>	
<input type="checkbox"/> PSY 305 Psychology of Scientific Thinking	3
<input type="checkbox"/> PSY 240 Social Psychology	3
<input type="checkbox"/> RL 102 World Religions	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
	15
<b>Year 3, Spring Semester</b>	
<input type="checkbox"/> PSY 310 Psychology as a Profession and Practice	3
<input type="checkbox"/> PY 209 Abnormal Psychology	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
<input type="checkbox"/> Free Elective	3
	15
<b>Total 3+1 Credits at Cumberland 90</b>	

**Degree Offered**

Associate in Arts  
Liberal Arts/Social Science

**Curriculum Code: SOC.SCI.LA.AA**

**Program Information**

Students who wish to transfer to a four-year college after completing the first two years of undergraduate coursework at Cumberland. The Liberal Arts/Social Science program is not designed for specific majors, but allows graduating students to advance to many different areas of study in the social sciences. As this program allows considerable course options, students should research the degree requirements of four-year colleges that interest them.

**When You Graduate**

AA programs are primarily designed for students who plan to transfer as juniors at four-year colleges and universities. Cumberland graduates have obtained bachelor's degrees and beyond from every college in New Jersey and scores of colleges and universities throughout America.

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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

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# Liberal Arts/ Social Science, AA

Program Requirements (60 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> General Education Foreign Language Elective**	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> CS 110 Technology Literacy	2
	14

**Year 1, Spring Semester**

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> General Education Foreign Language Elective**	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Program Elective*	3
<input type="checkbox"/> General Education Mathematics Elective	3
	15

**Year 2, Fall Semester**

<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> General Education Science Elective with lab	4
<input type="checkbox"/> Program Elective*	3
<input type="checkbox"/> Program Elective*	3
	16

**Year 2, Spring Semester**

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

**Total Credits 60/61**

**\*Program Electives:**

Any course in American Studies, Anthropology, Economics, Geography, Political Science, Psychology, Sociology, Public Administration, Education, and Criminal Justice

**\*\*Foreign language credits must be in the same language**

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

- Analyze behavioral or societal issues using theories and concepts from a social science perspective.
- Explain how social institutions and organization influence individual behavior.
- Describe and demonstrate how social scientists gather and analyze data and draw conclusions.
- Apply civic knowledge both locally and globally and engage in activities that exercise personal, social, civic responsibility.
- Locate, retrieve and critically evaluate information and information sources.

**Degree Offered**

Associate in Arts  
Liberal Arts/Spanish

**Curriculum Code: SPAN.LA.AA**

**Program Information**

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

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

**When You Graduate**

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

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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# Liberal Arts/Spanish, AA

Program Requirements (60/63 credits) Credits

**Year 1, Fall Semester**

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

**Year 1, Spring Semester**

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

**Year 2, Fall Semester**

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

**Year 2, Spring Semester**

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

**Total Credits 60/63**

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

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

**Degree Offered**

Associate in Science  
Biological Science

**Curriculum Code: BIOMED.AS**

**Program Information**

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

**When You graduate**

A.S. programs are primarily designed for students who plan to transfer as juniors to four-year colleges and universities. Graduates of this program will be prepared for entry into baccalaureate programs in the biomedical sciences.

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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

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

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# Biological Science, AS

Program Requirements (60 credits)

Credits

**□ Biology Track**

Course	Credits
<b>Year 1, Fall Semester</b>	
□ BI 101 General Biology I	4
□ CH 101 General Chemistry I	4
□ EN 101 English Composition I	3
□ General Education History Elective	3
<hr/>	
	14

**Year 1, Spring Semester**

□ BI 102 General Biology II	4
□ CH 102 General Chemistry II	4
□ EN 102 English Composition II	3
□ MA 121 Pre-Calculus or MA 130 Calculus I	4
<hr/>	
	15

**Year 2, Fall Semester**

□ BI Program Elective (BI 201, 203, 209)	4
□ General Education Humanities Elective	3
□ PY 101 General Psychology	3
□ CH 201 Organic Chemistry I Program Elective*	4
<hr/>	
	14

**Year 2, Spring Semester**

□ BI 215 Ecology	4
□ CH 202 Organic Chemistry II	4
□ General Education Diversity Elective	3
□ General Education Humanities/Social Science Elective	3
□ EN 103 Technical Writing	3
<hr/>	
	17

**Total Credits 60**

**Biology Track Electives**

BI 209 Biology III or BI 201 Genetics	4
MA 140 Calculus II	4
CH 201 Organic Chemistry I	4
CH 202 Organic Chemistry II	4

**□ Environmental Science Track**

Course	Credits
<b>Year 1, Fall Semester</b>	
□ BI 101 General Biology I	4
□ BI 122 Environmental Science	4
□ EN 101 English Composition I	3
□ General Education History Elective	3
□ Freshman Seminar	1
<hr/>	
	15

**Year 1, Spring Semester**

□ BI 102 General Biology II	4
□ PI 104 Energy, Environment and Society	3
□ EN 102 English Composition II	3
□ MA 121 Pre-Calculus or MA 130 Calculus I	4
<hr/>	
	14

**Year 2, Fall Semester**

□ GE 103 Physical Geography	3
□ General Education Humanities Elective	3
□ CH 101 General Chemistry I	4
□ PY 101 General Psychology	3
□ General Education Diversity Elective	3
<hr/>	
	16

**Year 2, Spring Semester**

□ BI 215 Ecology	4
□ CH 102 General Chemistry II	4
□ General Education Humanities/Social Science Elective	3
□ Program Elective	4
<hr/>	
	15

**Total Credits 60**

**Environmental Science Track Electives**

BI 122 Environmental Science	4
GE 103 Physical Geography or MA 140 Calculus II	3/4
PI 104 Energy the Environment and Society	3

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

# Mathematics and Science, AS

## Mathematics Track

### Degree Offered

Associate in Science  
Mathematics and Science

### Curriculum Code: MA.SCI.AS

### Program Information

This program prepares students for transfer into baccalaureate programs leading to careers in fields in mathematics or sciences such as engineering, secondary education and actuary scientists. The flexibility offered by this option allows for differences in entrance and transferability requirements to these schools.

Students should choose their electives deliberately with their transfer destination in mind.

### When You Graduate

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

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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

Program Requirements	(60/64 credits)	Credits
<b>Year 1, Fall Semester</b>		
<input type="checkbox"/> EN 101 English Composition I		3
<input type="checkbox"/> FS 104 STEM Seminar		1
<input type="checkbox"/> MA 130 Calculus I		4
<input type="checkbox"/> General Education Diversity Elective		3
<input type="checkbox"/> General Education Social Science Elective or General Education Humanities Elective		<u>3</u>
		17/18
<b>Year 1, Spring Semester</b>		
<input type="checkbox"/> EN 102 English Composition II		3
<input type="checkbox"/> MA 140 Calculus II		4
<input type="checkbox"/> General Education Social Science Elective		3
<input type="checkbox"/> MA 111 Discrete Mathematics (Prog El)		<u>4</u>
		14
<b>Year 2, Fall Semester</b>		
<input type="checkbox"/> PI 141 General Physics I		4
<input type="checkbox"/> General Education Mathematics Elective* or General Education Science Elective or General Education Computer Sci. El.		<u>3/4</u>
<input type="checkbox"/> General Education Humanities Elective		3
<input type="checkbox"/> MA 210 Calculus III (Prog El)		4
<input type="checkbox"/> MA 208 Linear Algebra		<u>4</u>
		17/18
<b>Year 2, Spring Semester</b>		
<input type="checkbox"/> PI 142 General Physics II		4
<input type="checkbox"/> General Education Mathematics Elective* or General Education Science Elective or General Education Computer Sci. El.		<u>3/4</u>
<input type="checkbox"/> General Education History Elective		3
<input type="checkbox"/> MA 220 Differential Equations (Prog El)		<u>4</u>
		13/14

**Total Credits 60/62**

\*Excluding MA 115 and MA 109

### Mathematics Track Program Electives

MA 208 Linear Algebra	4
MA 210 Calculus III	4
MA 220 Differential Equations	4
MA 111 Discrete Mathematics	4

# Mathematics and Science, AS

## Chemistry Track

### Degree Offered

Associate in Science  
Mathematics and Science

### Curriculum Code: MA.SCI.AS

### Program Information

This program prepares students for transfer into baccalaureate programs leading to careers in fields in mathematics or sciences such as engineering, secondary education and actuary scientists. The flexibility offered by this option allows for differences in entrance and transferability requirements to these schools.

Students should choose their electives deliberately with their transfer destination in mind.

### When You Graduate

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

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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

Program Requirements (60/62 credits) Credits

#### Year 1, Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> FS 104 STEM Seminar	1
<input type="checkbox"/> MA 130 Calculus I	4
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> CH 101 General Chemistry I (Prog El)	4
	<hr/> 15

#### Year 1, Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 140 Calculus II	4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> CH 102 General Chemistry II (Prog El)	4
	<hr/> 14

#### Year 2, Fall Semester

<input type="checkbox"/> PI 141 General Physics I	4
<input type="checkbox"/> General Education Mathematics Elective* or General Education Science Elective or General Education Computer Sci. El.	3/4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Social Science Elective or General Education Humanities Elective	3
<input type="checkbox"/> CH 201 Organic Chemistry I (Prog El)	4
	<hr/> 17/18

#### Year 2, Spring Semester

<input type="checkbox"/> PI 142 General Physics II	4
<input type="checkbox"/> General Education Mathematics Elective* or General Education Science Elective or General Education Computer Sci. El.	3/4
<input type="checkbox"/> General Education History Elective	3
<input type="checkbox"/> CH 202 Organic Chemistry II (Prog El)	4
	<hr/> 14/15

**Total Credits 60/62**

\*Excludes MA 109 and MA 115

#### Chemistry Track Program Electives

CH 101 General Chemistry I	4
CH 102 General Chemistry II	4
CH 201 Organic Chemistry I	4
CH 202 Organic Chemistry II	4

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**Degree Offered**

Associate in Applied Science  
Office Administration

**Curriculum Code: OFF.ADM.AAS**

**Program Information**

This program prepares students to become integral parts of the administrative support team found in today's complex office environments. This program provides students with a strong background in general and business education, computer hardware and software operations, and integrating technology with the multiple tasks of an office environment.

Courses in this program concentrate on interpersonal skills, working as a member of a team, communications skills, decision-making, effectively managing priorities and managing administrative tasks.

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges.

Students are encouraged to visit the NJ transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

The latest technology and learning tools support your education for a wide range of employment opportunities.

This program provides students with a strong background in general and business education, computer hardware and software operations, and integrating technology with the multiple tasks of an office environment.

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# Office Administration, AAS

Program Requirements (60/61 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> AC 103 Principles of Accounting I	4
<input type="checkbox"/> CS 110 Technology Literacy	2
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> OA 101 Keyboarding Skills	<u>3</u>
	15
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CG 105 Desktop Publishing	3
<input type="checkbox"/> EN 204 Business Communications	3
<input type="checkbox"/> OA 102 Word Processing Skills	3
<input type="checkbox"/> PY 101 General Psychology	<u>3</u>
	15
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> BU 106 Introduction to Management	3
<input type="checkbox"/> BU 109 Business Law	3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
<input type="checkbox"/> BU 212 Human Resource Management	<u>3</u>
	15
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> OA 219 Administrative Office Management	3
<input type="checkbox"/> OA 299 Office Administration Seminar	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> General Education Mathematics Elective (MA 109 or higher, excluding MA 115)	3/4
<input type="checkbox"/> General Education Humanities Elective	<u>3</u>
	15/16
<b>Total Credits 60/61</b>	

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

- Support management in office administration.
- Prepare business documents.
- Manage records.
- Demonstrate business communication skills.
- Utilize appropriate office technology.
- Execute the duties of an office administrator.
- Locate, retrieve and critically evaluate information and information sources related to the profession.

**Employment Opportunities**

Administrative assistants, managers and staff work in an automated office environment addressing current skills in word processing and office procedures.

**Degree Offered**

Associate in Applied Science  
Office Administration/Health Service

**Curriculum Code: HSRV.ADM.AAS**

**Program Information**

This program prepares students to become integral parts of the administrative support team found in today's complex medical and dental office environments. This program provides students with a strong background in general and business education, computer hardware and software operations, and integrating technology with the multiple tasks of an office environment.

Courses in this program concentrate on interpersonal skills, working as a member of a team, communications skills, decision-making, effectively managing priorities and managing administrative tasks.

**When You Graduate**

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges.

Students are encouraged to visit the NJ transfer website: [www.njtransfer.org](http://www.njtransfer.org) for transfer course equivalencies.

The latest technology and learning tools support your education for a wide range of employment opportunities.

# Office Administration/ Health Service, AAS

Program Requirements	(60/61 credits)	Credits
<b>Year 1, Fall Semester</b>		
<input type="checkbox"/> AC 103 Principles of Accounting I		4
<input type="checkbox"/> EN 101 English Composition I		3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer		3
<input type="checkbox"/> HS 103 Medical Terminology		2
<input type="checkbox"/> OA 109 Medical Office Practice		3
		15
<b>Year 1, Spring Semester</b>		
<input type="checkbox"/> BU 115 Introduction to Business		3
<input type="checkbox"/> EN 204 Business Communications		3
<input type="checkbox"/> OA 110 Intro. to Health Information Mgmt.		3
<input type="checkbox"/> OA 212 Medical Coding		3
<input type="checkbox"/> OA 217 Medical Office Accounting		3
		15
<b>Year 2, Fall Semester</b>		
<input type="checkbox"/> BU 106 Introduction to Management		3
<input type="checkbox"/> BU 109 Business Law		3
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing or SP 203 Effective Speech		3
<input type="checkbox"/> PY 101 General Psychology		3
<input type="checkbox"/> BU 212 Human Resource Management		3
		15
<b>Year 2, Spring Semester</b>		
<input type="checkbox"/> OA 219 Administrative Office Management		3
<input type="checkbox"/> OA 222 Medical Office Internship or OA 299 Office Management Seminar		3
<input type="checkbox"/> General Education Diversity Elective		3
<input type="checkbox"/> General Education Mathematics Elective (MA 109 or higher, excluding MA 115)		3/4
<input type="checkbox"/> General Education Humanities Elective		3
		15/16
<b>Total Credits</b>		<b>60/61</b>

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

- Describe the practices associated with health service office administration practice.
- Analyze and apply contemporary knowledge and skill sets to perform diverse administrative responsibilities in health and human services environments.
- Demonstrate business communication skills.
- Employ information literacy skills through the effective use of technology and information resources to accomplish project goals.

**Employment Opportunities**

Entry-level management position in medical or dental practice.

**Degree Offered**

Academic Certificate  
Office Administration

**Curriculum Code: OFF.ADM.AC**

**Program Information**

This program prepares students to become integral parts of the administrative support team found in today's complex office environments. The program provides students with a background in computer hardware and software operations, and integrating technology with the multiple tasks of an office environment.

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree.

This program prepares students to become integral parts of the administrative support team found in today's complex office environments.

# Office Administration, AC

Program Requirements (31 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> AC 103 Principles of Accounting I	4
<input type="checkbox"/> CG 101 Introduction to Computer Graphics	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> OA 101 Keyboarding Skills	3
	16

**Year 1, Spring Semester**

<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CG 105 Desktop Publishing	3
<input type="checkbox"/> EN 204 Business Communications	3
<input type="checkbox"/> OA 102 Word Processing Skills	3
<input type="checkbox"/> PY 101 General Psychology	3
	15

**Total Credits 31**

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

- Describe the principles of accepted office administration practices for the business community.
- Discuss the automated computer software components designed for office administration in the business environment.

Employment Opportunities  
Entry level administrative assistant or secretary.

Gainful Employment Link  
[www.cccnj.edu/gainfulemployment](http://www.cccnj.edu/gainfulemployment)

**Degree Offered**

Academic Certificate  
Office Administration/Health Service

**Curriculum Code: HSRV.ADM.AC**

**Program Information**

This program prepares students to become integral parts of the administrative support team found in today's complex medical and dental office environments. This program provides students with a strong background in general and business education, computer hardware and software operations, and integrating technology with the multiple tasks of an office environment.

Courses in this program concentrate on interpersonal skills, working as a member of a team, communications skills, decision-making, effectively managing priorities and managing administrative tasks.

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree.

This program prepares students to become integral parts of the administrative support team found in today's complex medical and dental office environments.

# Office Administration/ Health Service, AC

Program Requirements (30 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> AC 103 Principles of Accounting I	4
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> HS 103 Medical Terminology	2
<input type="checkbox"/> OA 109 Medical Office Practice	3
	15

**Year 1, Spring Semester**

<input type="checkbox"/> EN 204 Business Communications	3
<input type="checkbox"/> OA 110 Intro. to Health Information Mgmt.	3
<input type="checkbox"/> OA 212 Medical Coding	3
<input type="checkbox"/> OA 217 Medical Office Accounting	3
<input type="checkbox"/> PY 101 General Psychology	3
	15

**Total Credits 30**

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

- Describe the practices associated with health service administration practices.
- Discuss the components of multiple tasks associated with health services administration.

**Gainful Employment Link**

[www.cccnj.edu/gainfulemployment](http://www.cccnj.edu/gainfulemployment)

**Employment Opportunities**

Entry-level administrative positions in clinics, consulting firms, health insurance organizations, healthcare associations, hospitals, nursing homes, physician practices, mental health organizations, public health departments, rehabilitation centers.

# Child Advocacy, AA

## Degree Offered

Associate in Arts  
Child Advocacy

## Curriculum Code: CHILD.ADV.AA

### Program Information

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

### When You Graduate

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

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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Program Requirements (60 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> CA 101 Introduction to Child Advocacy	3
<input type="checkbox"/> SO 201 Introduction to Sociology	3
<input type="checkbox"/> CA 102 Child Dev. and the Ecological system	3
<input type="checkbox"/> CS 110 Technology Literacy	2
	14
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> CA 103 Cultural Competencies in Child Welfare	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> General Education Mathematics Elective (excluding MA115)	3
	15
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> HI 101 Western Civilization or HI 102 Western Civilization II	3
<input type="checkbox"/> BI 108 Human Biology	4
<input type="checkbox"/> CA 104 Children and Justice	3
<input type="checkbox"/> MA 205 Statistics	3
	16
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> General Education Diversity Elective (GE 101 World Geography or GE 102 Cultural Geography suggested)	3
<input type="checkbox"/> HI 201 US History I or US History II	3
<input type="checkbox"/> General Education Humanities Elective (AR101 recommended)	3
<input type="checkbox"/> CA 105 Child Advocacy Field Work	3
	15
<b>Total Credits 60</b>	

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

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

**Degree Offered**

Associate in Science  
Social Service

**Curriculum Code: SOC.SERV.AS**

**Program Information**

In today's fast-paced, complex society, there's a vital need for compassionate, professional social workers. This program taps into your natural ability to interact with others, and that capacity is refined into a valuable skill with rewarding professional opportunities. You'll receive the practical and theoretical education necessary for success, professionally or at a four-year college.

The U.S. Department of Labor indicates that social worker jobs will be particularly abundant during the next decade. This will be especially true in New Jersey due to the state's older-than-average population and its growing popularity as a retirement area.

**When You Graduate**

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

Graduates work as aides at daycare centers, mental health agencies, institutions for physically and mentally handicapped persons, prisons, hospitals and substance abuse agencies. Those with a bachelor's degree and beyond may hold positions as counselors, administrators or educators.

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

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

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# Social Service, AS

Program Requirements (60 credits)	Credits
<b>Year 1, Fall Semester</b>	
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 110 Technology Literacy	2/3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> HI 103 World History & Culture I or HI 104 World History & Culture II	3
<input type="checkbox"/> SO 201 Introductory Sociology	3
<input type="checkbox"/> General Education Foreign Language	3
	14/15
<b>Year 1, Spring Semester</b>	
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 205 Statistics	3
<input type="checkbox"/> PY 101 General Psychology	3
<input type="checkbox"/> SO 202 Contemporary Social Problems	3
<input type="checkbox"/> SP 203 Effective Speech	3
	15
<b>Year 2, Fall Semester</b>	
<input type="checkbox"/> BI 108 Human Biology	4
<input type="checkbox"/> PA 101 Public Administration	3
<input type="checkbox"/> SO 207 Social Minorities & Intergroup Relations	3
<input type="checkbox"/> SO 217 Human Behavior in the Social Environment I	3
<input type="checkbox"/> SO 221 Social Service Fieldwork I	3
	16
<b>Year 2, Spring Semester</b>	
<input type="checkbox"/> SO 212 Social Psychological Counseling	3
<input type="checkbox"/> SO 219 Human Behavior in the Social Environment II	3
<input type="checkbox"/> SO 220 Introduction to Social Welfare & Social Work	3
<input type="checkbox"/> Foreign Language Elective	3
<input type="checkbox"/> Social Service Program Elective*	3
	15
<b>Total Credits 60</b>	

**\*Program Electives**

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

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

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

**Employment Opportunities**

Entry level employment in social service positions.

**Academic Certificate**

Academic Certificate  
Alcohol & Drug Counseling

**Curriculum Code:**

**ALC.DRUG.CNSL.AC**

**Program Information**

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

**When You Graduate**

Certificate programs provide specific career skills development as well as the opportunity to test an area of interest, or enhance a degree program. Students who complete a certificate program can continue to obtain a degree. Graduates will be able to pursue a certificate in alcohol and drug counseling in the state of New Jersey with the completion of field work hours. The number of field work hours required is two years in an approved agency under supervision of a licensed alcohol and drug counselor. Once approved, an oral and written examination will follow through the State Certification Board. Graduates of the program may also further their education by transferring into an Associate's level Social Services degree.

This program is designed for students who have an interest in becoming compassionate counselors specializing in the field of alcohol and drugs.

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# Alcohol & Drug Counseling, AC

Program Requirements (33 credits)

Credits

**Year 1, Fall Semester**

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

**Year 1, Spring Semester**

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

**Year 2, Fall Semester**

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

**Total Credits 33**

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

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

Employment Opportunities  
Alcohol & Drug Counselor

**Degree Offered**

Associate in Applied Science  
Technical Studies

**Curriculum Code: TECH.STUD.AAS**

**Program Information**

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

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

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

**When You Graduate**

Graduates will increase their skills and knowledge in their chosen career as well as increase their opportunities for professional and personal advancement.

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# Technical Studies, AAS

Program Requirements (60/61 credits) Credits

**Year 1, Fall Semester**

<input type="checkbox"/> BU 115 Introduction to Business	3
<input type="checkbox"/> CS 101 Introduction to Microcomputers	3
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> Program Electives*	6
	<hr/> 15

**Year 1, Spring Semester**

<input type="checkbox"/> BU 212 Human Resource Management	3
<input type="checkbox"/> EN 102 English Composition II or SP 203 Effective Speech or EN 103 Technical Writing	3
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> Program Electives*	6
	<hr/> 15

**Year 2, Fall Semester**

<input type="checkbox"/> CM 214 Project Management	3
<input type="checkbox"/> EN 204 Business Communication	3
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> Program Electives*	6
	<hr/> 15

**Year 2, Spring Semester**

<input type="checkbox"/> CM 216 Construction Contracts and Labor Law	3
<input type="checkbox"/> General Education Mathematics or Science Elective	3/4
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> Program Electives*	6
	<hr/> 15/16

**Total Credits 60/61**

\*Up to 24 technical studies credits may be awarded for formal corporate, industrial, military training programs. Training program information will be reviewed for application of credit. Alternatively, completion of the program electives can be selected from the following tracks:

**Business**

- Complete additional credits in courses using the prefix BU, AC or EC

**Computer Aided Drafting and Design**

- Complete additional credits in courses using the prefix EG, IT or MA

**Engineering Technology**

- Complete additional credits in courses using the prefix EG, IT, PI or MA

**Construction Supervision**

- Complete additional credits using the prefix CM, IT, or BU

All courses should be selected with the assistance of a faculty advisor

**Employment Opportunities**

Entry level position in the selected track.

# General Education

Cumberland County College is committed to offering educational programs that provide its students with a common grounding in the intellectual tradition. Each student, depending on the academic program, must complete a common set of courses known as General Education.

The general education goals are as follows:

## Goal 1: Written and Oral Communication (Communication)

Students will communicate effectively in both speech and writing.

## Goal 2: Quantitative Knowledge and Skills (Mathematics)

Students will use appropriate mathematical and statistical concepts and operations to interpret data and to solve problems.

## Goal 3: Scientific Knowledge and Reasoning (Science)

Students will use the scientific method of inquiry, through the acquisition of scientific knowledge.

## Goal 4: Technological Competency or Information Literacy (Technology)

Students will use computer systems or other appropriate forms of technology to achieve educational and personal goals.

## Goal 5: Society and Human Behavior (Social Science)

Students will use social science theories and concepts to analyze human behavior and social and political institutions and to act as responsible citizens.

## Goal 6: Humanistic Perspective (Humanities)

Students will analyze works in the fields of art, music or theater; literature; and philosophy and/or religious studies; and will gain competence in the use of a foreign language.

## Goal 7: Historical Perspective (History)

Students will understand historical events and movements in World, Western, non-Western or American societies and assess their subsequent significance.

## Goal 8: Global and Cultural Awareness (Diversity Courses)

Students will understand the importance of a global perspective and culturally diverse peoples.

## Goal 9: Ethical Reasoning and Action

Students will understand ethical issues and situations.

## Goal 10: Information Literacy

Students will understand how to locate, evaluate and effectively use information.

## General Education Requirements

In addition to other degree requirements, students must meet the following general education requirements:

### 1. Associate in Arts Degree (AA)

Forty-five (45) general education credits distributed as follows: communications, 9 credits; math/science/technology, 12 credits; social science, 6 credits; humanities, 9 credits; history, 6 credits; and diversity, 3 credits.

### 2. Associate in Science Degree (AS)

Thirty (30) general education credits distributed as follows: communications, 6 credits; math/science/technology, 9 credits; social science, 3 credits; humanities, 3 credits; social science or humanities, 3 credits; history, 3 credits; and diversity, 3 credits.

### 3. Associate in Fine Arts Degree (AFA)

Twenty-one (21) general education credits distributed as follows: communications, 6 credits; math/science/technology, 3 credits; social science, 3 credits; humanities, 3 credits; diversity, 3 credits and general education elective, 3 credits.

### 4. Associate in Applied Science Degree (AAS)

Twenty-one (21) general education credits distributed as follows: communications, 6 credits; math/science/technology, 3 credits; social science, 3 credits; humanities, 3 credits; diversity, 3 credits and general education electives, 3 credits.

Academic Certificate – Six (6) general education credits distributed as follows:

- communications, 3 credits
- general education elective, 3 credits

## GENERAL EDUCATION CATEGORIES

GEN ED CATEGORY..... GEN ED CODE

### 1. Communication (Written & Oral Communication) C

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

### 2. Mathematics (Quantitative Knowledge & Skills) M

MA 109	Principles of Mathematics
MA 110	College Algebra
MA 115	Mathematical Structures & Algorithms
MA 120	College Trigonometry
MA 121	Precalculus Mathematics
MA 122	Business Calculus
MA 130	Calculus I
MA 140	Calculus II
MA 205	Statistics I
MA 206	Statistics II

### 3. Science (Scientific Knowledge & Reasoning) B

BI 101	General Biology I
BI 102	General Biology II

BI 108	Human Biology
BI 105 (L)	Human Biology Lab
BI 106	Anatomy & Physiology I
BI 107	Anatomy & Physiology II
BI 117 (L)	Introduction to Biology Lab
BI 117	Introduction to Biology
BI 122	Environmental Science
BI 203	Microbiology
CH 101	General Chemistry I
CH 102	General Chemistry II
GL 101	Physical Geology
GL 102	Historical Geology
GL 117	Earth Science
PI 105	Physical Science
PI 108	Atmospheric Science Concepts
PI 109	Physics of Musical Sound
PI 110	Principles of Science I
PI 110 (L)	Principles of Science I Lab
PI 115	Astronomy
PI115 (L)	Astronomy Laboratory
PI 123	Fundamentals of Physics 1
PI 124	Fundamentals of Physics II
PI 141	General Physics I
PI 142	General Physics II

#### 4. Technology (Technological Competency or Information Literacy)

CS 101	Introduction to Microcomputers
CS 102	Applications on the Microcomputer

#### 5. Social Sciences (Society & Human Behavior)

AN 102	Cultural Anthropology
EC 201	Principles of Macroeconomics
EC 202	Principles of Microeconomics
GE 101	World Regional Geography
GE 102	Cultural Geography
PS 201	American Federal Government
PS 203	State & Local Government
PY 101	General Psychology
PY 102	Child Psychology
PY 207	Human Growth & Development
SO 201	Introductory Sociology

#### 6. Humanities (Humanistic Perspective)

##### Art/Music/Theatre

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

##### Literature

EN 201	British Literature I
EN 202	British Literature II
EN 205	Masterpieces of Western Literature I
EN 206	Masterpieces of Western Literature II
EN 208	Images of Women in Literature
EN 209	American Literature I
EN 210	American Literature II
EN 215	African-American Literature
EN 219	Modern American Literature

EN 221	Short Story
EN 222	Drama
EN 223	Poetry
EN 225	Introduction to Latino Literature

#### Foreign Languages

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

#### Philosophy/Religion

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

#### 7. History (Historical Perspective)

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

#### 8. Global & Cultural Awareness (Diversity)

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

#### Ethical Reasoning & Action

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

# Course Descriptions

Subject code	Course number	Gen Ed Code	Course title	Credits
BI	101	"B"	General Biology I	(4.00 cr.)

**Subject code and course number** - each course is assigned a two-letter code identifying the course subject and a three-digit number

**Gen Ed code** - each course designated with one letter in quotes fulfills the General Education Requirement

**Credits** - number of credits to be awarded to the student who successfully completes the course

## ACCOUNTING

### AC 103: Accounting Principles I (4.00 cr.)

Offers a study of the basic principles of accounting primarily related to the sole proprietorship type of business. The complete accounting cycle is presented for both service and merchandising entities. Prerequisite: EN 060. Lecture (60.00)

### AC 104: Accounting Principles II (4.00 cr.)

Offers a study of the basic principles of accounting typical to partnerships and corporations, such as nature and formation of the corporation, capital stock entries, capital earnings, and dividends. Prerequisite: AC 103. Lecture (60.00)

### AC 201: Intermediate Accounting I (4.00 cr.)

Covers such topics as financial statements, balance sheets, income statements, retained earnings statements, accounting processes, receivables, inventories, plant assets, intangibles, and current liabilities. Prerequisite: AC 104. Lecture (60.00)

### AC 202: Intermediate Accounting II (4.00 cr.)

Covers such topics as investments, bonds and funds, long-term liabilities, paid-in capital, financial statement analysis, and cash-flow reporting. Prerequisite: AC 201. Lecture (60.00)

### AC 221: Cost Accounting I (3.00 cr.)

Covers the cost accumulation of materials, labor, overhead, by-products, job order cost, standard cost as well as the budgeting process. Prerequisite: AC 104. Lecture (45.00)

### AC 231: Federal Taxation: Individuals (3.00 cr.)

Offers training in the application of basic principles of the solution of tax problems; individual income tax returns, inclusions and capital gain or loss applicable thereto: pay as you go tax collection system. Prerequisite: AC 104. Lecture (45.00)

## AGRICULTURE

### AG 105: Introduction to Agricultural Science (3.00 cr.)

Introduces students to career opportunities and the general concepts of agriculture which include plant taxonomy, physiology, crops and their general management. Roundtable discussions of the implications of current controversial topics impacting the direction of agriculture will be held. Prerequisite: EN 060. Lecture (45.00)

### AG 106: Plant Science (4.00 cr.)

Designed to familiarize the student with the factors that limit plant growth such as light, water, temperature, and nutrients. Students identify the horticultural relationships of plants to botanical anatomy and function. Prerequisite: EN 060. Lecture (45.00) Lab (45.00)

### AG 107: Plant Propagation (3.00 cr.)

An introduction to the techniques and facilities needed for plant propagation in the greenhouse and nursery industry. Prerequisite: EN 060. Lecture (45.00)

### AG 108: Herbaceous Plants (3.00 cr.)

The knowledge and identification of plants is an essential skill required for persons pursuing a career in horticulture. In this course students participate to learn plant identification, culture and maintenance of selected spring and early summer blooming herbaceous annual, biennial, perennial, weeds and aquatic plants. Using acquired skills, the students will learn to identify plants using botanical nomenclature and apply knowledge of plant culture for use on commercial; residential design layouts. Prerequisite: EN 060. Lecture (45.00)

### AG 114: Agriculture Internship (1.00 cr.)

The purpose of this course is to provide the student with a practical, field-based experience in an area of the intern's choice. The internship may be based on any area of agriculture or horticulture that will aid the student in making a decision for future employment. The internship may be accomplished at any approved job-site related to the field of study. Prerequisite: EN 060. Permission of Instructor. Internship (45.00)

### AG 203: Fruit Production (3.00 cr.)

Includes planting, care, production and marketing of the major fruit crops grown in New Jersey. Techniques involved in pruning, budding, and grafting trees will be demonstrated. Students will have an opportunity to practice these skills. Prerequisite: EN 060 Lecture (30.00) Lab (45.00)

### AG 206: Vegetable Production (3.00 cr.)

Acquaints the student with the cultural requirements of the important vegetable crops produced in Southern New Jersey. Discussions included are: nutritional requirements, disease and insect problems, harvesting procedures and methods of weed control. Prerequisite: EN 060 Lecture (30.00) Lab (45.00)

### AG 207: Agriculture Pest Control & Identification (4.00 cr.)

Designed to introduce the student to the fundamental theories, principles and practices of pest control for agriculture and ornamental horticulture crops and greenhouse. Diagnostic skills for insect, disease, and weed identification are presented. Prerequisite: EN 060 Lecture (45.00) Lab (45.00)

### AG 209 Introduction to Soil Science (4.00 cr.)

Acquaints the student with soil concepts, plant nutrients, and their influence on plant growth. Emphasis will be placed on soil testing, nutrient deficiency symptoms, and fertilizer requirements. Prerequisite: EN 060 Lecture (45.00) Lab (45.00)

## ANTHROPOLOGY

### AN 102: "S/D" Cultural Anthropology (3.00 cr.)

An introduction to the complexity of human life and the anthropologist's view of the essential aspects of culture. The course stresses the variety of ways that human groups have organized their societies as alternatives for solving common human problems. Prerequisite: EN 060 Lecture (45.00)

### AN 103: "D" Cultural Diversity in the U.S. (3.00 cr.)

An exploration of multiculturalism, inclusiveness, tolerance and a celebration of different lifeways in the United States. Critical understanding and reflective analysis will be used to broaden our perspectives on these issues. Prerequisite: EN 060 Lecture (45.00)

## ART

### AR 101: "H" Art Appreciation (3.00 cr.)

Art Appreciation is designed to introduce the student to the fundamentals of creating art. Students will examine the visual elements and design principles necessary to create works of art. Students will discern a work's subject matter and content through writing criticisms of art or by working hands on and exploring the creative process. Students will be expected to go on a field trip to a museum or gallery. Prerequisite: EN 050. Lecture (45.00)

**AR 103: Introduction to Art Therapy and Methods (3.00 cr.)**

This course provides an introduction to the art therapy profession. Students will learn about the interface of art and therapy as well as basic theory and application of the discipline through definitions, history, and basic elements within the field. Course topics will research major contributors to the field, what art therapists do and where art therapists work. Student will be able to identify the significance of art as a therapeutic agent and a springboard to non-verbal communication. Prerequisite: EN 060. Lecture (45.00)

**AR 104: Introduction to Art Therapy in Practice (3.00 cr.)**

Students will study specific applications of art therapy as they relate to school, clinical, prevention, rehabilitation, Juvenile Justice, community populations and agencies. Age group of studies also includes both student and adult populations. Mean or assessment/diagnosis and treatment with individuals and groups will be explored. Students will have the opportunity (as an observer) participant in various field experiences under the direct supervision of an art therapist (ATR). Students can expect guest speakers, lecturers, site visits, and potential internship opportunities. Prerequisite: AR 103. Lecture (45.00)

**AR 107: "H" Art History I (3.00 cr.)**

This course is a chronological presentation of Western visual arts from prehistory to the Renaissance. The focus will be on the historical and cultural context of the works of art. The class will discuss how the visual arts functioned and were viewed at the time of their creation. The role and status of the artist, the movement and the patron in each culture or period will be examined. Prerequisite: EN 060. Lecture (45.00)

**AR 108: "H" Art History II (3.00 cr.)**

This course is a continuation of Art History I from the Renaissance onward to the present day. Major styles and movements will be examined: baroque, romanticism, realism and modernism. The context of the arts will be presented in a chronological, cultural and historical format. Prerequisite: EN 060. Lecture (45.00)

**AR 110: Fundamentals of Drawing (3.00 cr.)**

This is an introductory course that is part of a formal foundation for studying art. The class will focus on the mastery of fundamental drawing techniques such as gesture, contour and modeling with light. The students will learn the techniques of working with pencil, charcoal, pen & ink and pastels. The basic elements of art and compositional strategies will be explored. Lecture (30.00) Studio (30.00)

**AR 113: Fundamentals of Drawing II (3.00 cr.)**

This course builds on what was accomplished in Fundamentals of Drawing I and leads the student to further explore the drawing medium. Greater depth of ideas and more sophisticated technical execution are emphasized. Prerequisite: AR 110. Lecture (30.00) Studio (30.00)

**AR 115: Painting I (3.00 cr.)**

This course will assist students in developing an understanding of traditional painting methods,

materials and terminology through painting still life subject matter in oil or acrylic media. This course covers the fundamentals of composition, materials and methods through a combination of instruction and studio experience. Lecture (30.00) Studio (30.00)

**AR 120: Printmaking I (3.00 cr.)**

This course is a generalized introduction to the various methods of relief printmaking. The student will have the opportunity to work with linoleum; wood block and wood cut printing processes. The student will also be able to do mono prints using the press. This course concentrates on creative imaging and expression through the medium of printmaking. Lecture (30.00) Studio (30.00)

**AR 140: Sculpture I (3.00 cr.)**

This is an introductory sculpture course. The students will work in clay, plaster and wire. The students will work from a live model to learn portraiture and the proportions of the human form. Demonstrations using basic sculptural materials will be provided. Lecture (30.00) Studio (30.00)

**AR 145: Sculpture II (3.00 cr.)**

Students will build on what they have mastered in Sculpture I. Students will continue to use basic materials and specific art-historical references to create work that is more self-directed. Students will explore carving, modeling and assembling in the manipulation of materials, including paper, wood, clay, plaster and metal. Prerequisite: AR 140. Lecture (30.00) Studio (30.00)

**AR 200: 2-Dimensional Design (3.00 cr.)**

This course provides students with a basic grounding in the process of defining, generating and evaluating visual ideas. Emphasis is on problem solving, thinking and making processes in regards to the visual elements and design principles. Students will use representational and nonrepresentational forms to explore the principles of organization while learning skills in the use of black and white and color medium and technical equipment including technical pens, brushes and simple drafting tools. Prerequisite: AR 110. Lecture (30.00) Studio (30.00)

**AR 202: Color Theory & Practice (3.00 cr.)**

This course will expand students understanding of color through a thorough the exploration of fundamental color theory principles. Through lecture, demonstration, studio projects, reading assignments and analysis of work by artists in history, students will learn about the color circle and the seven color contrasts. Subjective feeling and objective color principles will also be addressed. Prerequisite: AR 200. Lecture (30.00) Studio (30.00)

**AR 205: 3-Dimensional Design (3.00 cr.)**

Three-dimensional visual art combines the study of the basic elements, principles and practices of form and design. Through a series of lectures and hands-on problem solving projects, the student will have the opportunity to experience and understand form in three dimensions. This course is required for students in the Ceramic Certificate program or those majoring in Ceramics or Sculpture. Students majoring in art education or fine arts are also strongly encouraged to take this course, as well as graphic designers

interested in product design or display. Prerequisite: AR 110. Lecture (30.00) Studio (30.00)

**AR 213: Life Drawing (3.00 cr.)**

This course provides instruction in drawing the human figure. A live model will be used during class time. There will be emphasis on a variety of approaches. Dynamics, proportion, anatomy, volume and structure are investigated through various drawing methods and selected materials. Prerequisite: AR 110. Lecture (30.00) Studio (30.00)

**AR 215: Painting II (3.00 cr.)**

This course builds on what was mastered in Painting I. The development of an individualized style in form and content is explored and encouraged. Students have the opportunity to complete works that involve the figure and the environment. Prerequisite: AR 115. Lecture (30.00) Studio (30.00)

## BEVERAGE TOURISM

**BT 101: State and Federal Alcohol Compliance/ Safe Alcohol Handling (3.00 cr.)**

An introduction to alcohol industry regulatory compliance including permitting, recordkeeping and reporting requirements for New Jersey Alcoholic Beverage Control and U.S. TTB. Topics include COLAs label regulations, inventory recording and reporting requirements, outlet-specific regulations, Social Affairs and Festival permitting. Safe serving requirements and techniques will also be covered and students will be prepared to sit for The TIPS certification. Course materials fee applies. Students must be 21 years of age or older. Lecture (45.00)

**BT 102 Survey of Alcoholic Beverages (3.00 cr.)**

This course provides an introduction to the range of alcoholic beverages that will be encountered in the region's tasting rooms. Students will compare and contrast the carbohydrate source, production techniques, alcohol content and typical uses of various alcoholic beverages including wines, beer and distilled spirits. Focus will be on alcoholic beverages under production in New Jersey. Sensory evaluation is a component of this course. Students must be 21 years of age or older. Course materials fee applies. Lecture (45.00)

**BT 103 Wines of the World (3.00 cr.)**

An introduction to wines of the main wine-producing regions of the world including viticultural and enological practices, historical significance and cultural context. Elements of sensory evaluation, wine appreciation and service, and interpretation of label terminology will be explored. Sensory evaluation of wine is a component of this course, so students must be 21 years of age or older. Course materials fee applies. Lecture (45.00)

**BT 104: Beers of the World (3.00 cr.)**

An introduction to brewed alcoholic beverages and hard ciders from various regions of the world including historical significance, production practices, styles and cultural context. Sensory evaluation of beer is a component of this course, so students must be 21 years of age or older. Course materials fee applies. Lecture (45.00)

**BT 201: Breweries, Distilleries and Wineries of New Jersey (3.00 cr.)**

This seminar course will provide an overview of the history and development of this fast-growing industry. Beverage trails, AVAs and economic importance will be considered. Students will be required to visit tasting rooms throughout the region and report on their experiences through classroom presentations and analytical papers. Students must be 21 years of age or older. Prerequisite: BT 103 and 104. Lecture (45.00)

**BT 202 Principles of Tasting Room Management (3.00 cr.)**

Provides coverage of tasting rooms operations that lead to positive customer experiences including customer service, staffing, tasting room entertainment, flight groupings, and food pairings. Outlet management and event planning will also be covered. Lecture (45.00)

## BUSINESS

**BU 106: Introduction to Management (3.00 cr.)**

This course is an introduction to practical concepts used for organizational management. The course covers the basic managerial process of planning, organizing, leading and controlling; meeting the competition; working with people and projects and handling processes. Prerequisite: EN 060 Lecture (45.00)

**BU 109: Business Law I (3.00 cr.)**

This course is intended to provide you with an understanding of the law as it pertains to business with a focus on the courts, ethics, regulation, and contracts. Prerequisite: EN 060 Lecture (45.00)

**BU 114: Business Internship (3.00 cr.)**

Introduces the student to the actual work performed in an occupational area of interest. The student will perform tasks and responsibilities at employer facilities under the guidance of the course instructor and other professionals. 90 Hours of Internship Required. Prerequisite: BU 106, BU 207 and BU 115. Lecture (15.00) (Internship 90)

**BU 115: Introduction to Business (3.00 cr.)**

This course offers a general survey of the corporate form of business, the individual proprietorship, and partnership type of business organization. Topics include the environment of business, forms of business ownership, marketing principles, and business finance. Prerequisite: EN 060. Lecture (45.00)

**BU 116: Cases in Business Management (3.00 cr.)**

Devotes time to problem analysis, actual case problems, and how these problems could be solved by a manager on the job. Prerequisite: BU 115 and BU 106. Lecture (45.00)

**BU 117: Advertising (3.00 cr.)**

Focuses on the development of advertising economics and the functions of advertising. Topics include the development of advertisements, copy and layout, cost and application as well as various media outlets. Prerequisite: BU 207. Lecture (45.00)

**BU 118: Professional Selling (3.00 cr.)**

Covers the principles of sales with practical applications including prospecting, product and service analysis, meeting objectives, demonstrating, sales psychology, and preparing for sales presentations. Prerequisite: EN 060. Lecture (45.00)

**BU 122: Introduction to Entrepreneurship(2.00 cr.)**

This is a course in which students assess the fundamental skills necessary to start and operate their own businesses. This course is designed for students who are in the early planning stages of entrepreneurship or currently own a business but need some additional tips and concepts to help spur growth and profitability. Combining academics, coaching, mentoring and on-line resources can be the foundation that entrepreneurial small business owners need to develop a successful enterprise. Prerequisite: BU 115. Lecture (30.00)

**BU 207: Introduction to Marketing (3.00 cr.)**

Introduces students to the activities and processes involved in the flow of goods and services from producers and/or manufacturers to the various types of consumers. This course explores conditions affecting the domestic and international markets and analyzes the problems as well as the strategies used to solve those problems. Prerequisite: BU 115. Lecture (45.00)

**BU 209: Small Business Management (3.00 cr.)**

Provides complete coverage of small business operations with proper balance between business functions and management functions. Topics include how to obtain financing, evaluate a business that is for sale, market a small business, prepare a business plan as well as how to recognize business problems and develop solutions. Prerequisite: BU 106 or BU 115. Lecture (45.00)

**BU 212: Human Resource Management (3.00 cr.)**

Covers the organization and management of employees, their procurement and placement, supervision, the improvement of employee performance, management and labor relations as well as the future of human resource management. Prerequisite: EN 060. Lecture (45.00)

**BU 219: Retailing (3.00 cr.)**

Includes the principles of understanding successful retailing including the analysis of a store location, equipment and layout, organization of market contracts, selecting, buying and receiving merchandise, and the development of a retail sales program. Prerequisite: EN 060. Lecture (45.00)

**BU 233: Corporate Finance (3.00 cr.)**

Course covers financial terminology and reports, financial instruments and analysis, cash flow and asset valuation, in addition to profitability and company performance analysis. Prerequisite: AC 103. Lecture (45.00)

**BU 242: Labor Relations (3.00 cr.)**

Examines how operations and human resource managers should proceed to effectively manage labor relations. Topics include labor laws and regulations, negotiating contracts with unions, and dealing with impasses in collective bargaining and grievances. Prerequisite: EN 060. Lecture (45.00)

**BU 244: Employee Selection (3.00 cr.)**

Explores the acquisition and deployment of human resources. The overall process is known as staffing and encompasses topics such as recruitment policies and procedures, selection and interviewing, performance appraisals, and internal human resource maintenance. Prerequisite: EN 060. Lecture (45.00)

**BU 247: Leadership (3.00 cr.)**

Provides the student with a comprehensive understanding of the skills and behaviors of high achieving leaders. Topics include the influence leaders have on organizational culture; leadership traits, styles, and behaviors; and situational and contingent leadership. Prerequisite: EN 060. Lecture (45.00)

**BU 249: Introduction to International Business (3.00 cr.)**

Designed to familiarize the student with the environmental forces, economics, currency differences, and cultural aspects of international business. Prerequisite: EN 060. Lecture (45.00)

**BU 288: Strategic Management (4.00 cr.)**

This capstone course synthesizes the student's business skills with the need to successfully manage a business enterprise by developing and effectively implementing a sound business strategy. Prerequisite: BU 106, BU 115 and BU 207. Lecture (60.00)

## CERAMICS

**CR 101: Ceramics I (3.00 cr.)**

This course introduces students to traditional and contemporary hand-building techniques, such as pinch, coil and slab. Techniques in preparation of glazes, in firing, and in kiln procedures will be demonstrated. Lecture (30.00) Studio (30.00)

**CR 102: Ceramics II (3.00 cr.)**

This course builds on what was mastered in Ceramics I and introduces the student to the pottery wheel. The students will further explore glazes and surface decoration. Projects will include both hand building and wheel techniques. Prerequisite: CR 101. Lecture (30.00) Studio (30.00)

**CR 103: Ceramics III (3.00 cr.)**

This course focuses on both handbuilding and wheel techniques to further advance his or her skills. Emphasis is placed on creating work that is not only technically accomplished, but communicates the student's personal message. Prerequisite: CR 102. Lecture (30.00) Studio (30.00)

**CR 105: Sculptural Ceramics (3.00 cr.)**

This course investigates the use of clay to create sculptural forms. Using basic building methods, students will be involved with more complex forms requiring special construction considerations. Students will use a variety of clay mixtures and mixed media. Prerequisite: CR 101. Lecture (30.00) Studio (30.00)

**CR 106: Ceramic Technologies (3.00 cr.)**

A lecture and laboratory course designed to initiate investigation of basic clay and glaze materials. The nature of clays and the relationship among clay bodies, slips and glazes is explored. Prerequisite: CR 101. Lecture (30.00) Studio (30.00)

**CR 107: Clay Co-op Experience – Gallery (3.00 cr.)**

Gives the student practical experience in operating a gallery. Students will learn all facets of gallery management, including planning and installing exhibitions and marketing and retailing in a craft environment. Students will meet with the instructor of Craft Business Practices who will organize the work schedule for the gallery. Students are expected to work four hours a week for fifteen weeks in the gallery. Prerequisite: CR 102. Co-Op (135.00)

**CR 108: Clay Co-op Experience – Studio (3.00 cr.)**

Focuses on all facets of studio management including how to keep track of inventory, how to maintain and order supplies, and how to run a safe and efficient studio. Students will meet with the instructor of Ceramics III, who will organize the work schedule. Students are expected to work four hours a week for fifteen weeks in the studio. Prerequisite: CR 102, CR 106. Co-Op (135.00)

**CR 109: Craft Business Practices (3.00 cr.)**

Provides students with the opportunity to write their own business plans. Specific concerns regarding studio management, marketing research, advertising, gaining admission to the craft market show circuit, how to write a resume and prepare slide presentations will be addressed. Prerequisite: CR 103, CR 105. Lecture (45.00)

**COMMUNICATIONS****CO 101: Mass Media Influence (3.00 cr.)**

Mass Media is designed to introduce the student to the growth, development, and influence of modern mass media, including the press, radio, film, television and new media delivery systems. Emphasis is placed on the relationship between the media and society. Students will examine the need for ethical standards and for regulations or self-regulations of those media that play such an enormous part in our lives. Prerequisite: EN 060 Lecture (45.00)

**CO 104: Writing for Electronic Media (3.00 cr.)**

An introduction to the principles and techniques of written formats commonly used in radio, television, and new media. Assignments include the development of the treatment, rundown sheet, storyboard and script. Prerequisite: EN 101. Lecture (45.00)

**CO 114: Digital Media I (3.00 cr.)**

Digital Media I is designed to introduce the student to the technical and practical proficiencies in digital production in complete formats such as news, interviews, music, and drama. Co-Requisite: CO 104. Lecture (30.00) Lab (30.00)

**CO 118: Introduction to Audio Production (3.00 cr.)**

This course is an introduction to techniques using computer-based music recording and multi-media software found on the Macintosh platform, principally GarageBand, iPhoto, iMovie. This course is designed

to give the aspiring student a sound pedagogical foundation in the theory and application of computer-based music and multimedia technologies. Also, this course covers foundations, practices, and creative techniques in audio recording and music production, including microphone selection and placement, mixing, mastering, signal processing, automation, and digital audio workstations. Lecture (30.00) Lab (30.00)

**CO 214: Digital Media II (3.00 cr.)**

Digital Media II offers students knowledge in advanced applications of digital media equipment to produce programming in a variety of formats while working in remote and studio settings. Prerequisite: CO 114. Lecture (30.00) Lab (30.00)

**CO 239: Communications Internship (3.00 cr.)**

This course is designed to offer students an internship with local print or broadcast journalism or public relations agencies or offices. Students will work in the participating office 8-10 hours per week and perform a variety of work assignments and experiences tailored to teach students the basics of public relations work. Permission of instructor required. Internship (135.00)

**CO 240: Broadcast Media Internship (3.00 cr.)**

This course is designed to offer students an internship with local broadcast media. Students will work with participating television and/or radio stations or camera/production crews for the equivalent of at least 8-10 hours per week. Permission of instructor required. Internship (135.00)

**COMPUTER GRAPHICS****CG 101: Introduction to Computer Graphics (3.00 cr.)**

This course introduces students to the tools of the computer design trade. The students will learn how to manage software, hardware, fonts, printers, memory and storage in a Macintosh work environment. The students will be introduced to the software Adobe Photoshop and Illustrator and provide a comprehensive foundation for further studies in graphic design. Lecture (30.00) Studio (30.00)

**CG 102: Computer Illustration (3.00 cr.)**

This course will focus on Illustrator and Freehand software. Students will learn how to produce original line art and color illustrations in Postscript file formats and how to work from drawn illustrations that are scanned in. Prerequisite: AR 110, CG 101. Lecture (30.00) Studio (30.00)

**CG 105: Introduction to Desktop Publishing (3.00 cr.)**

This course provides students with an introduction to desktop publishing techniques. We will use page layout programs such as QuarkXPress and PageMaker to create a variety of documents: letter heads, business cards, newsletters, advertisements, book pages, menus and a newspaper front page. Students will become familiar with the commands and tools necessary for completing the publication of documents, including basic layout, text attributes and text editing, graphics, drawing tools, importing text and graphic files. The primary focus of the course is centered on working

with text. Lecture (30.00) Studio (30.00)

**CG 110: Digital Imaging Techniques (3.00 cr.)**

This course introduces students to flatbed scanning techniques and gives them the opportunity to explore the possibilities of Adobe Photoshop's filters and editing tools. Projects will include photo retouching and collage creation. Prerequisite: CG 101. Lecture (30.00) Studio (30.00)

**CG 112: Introduction to Motion Graphics (3.00 cr.)**

Introduction to Motion Graphics provides students with an understanding of the principles of time-based art: sequence, movement, timing, and narrative. Graphic design students will apply their graphic foundation into the spatial and temporal conditions of two-dimensional design. Students will work primarily in industry standard software, where they will control the relationship type and image in computational form. Traditional methods of conceptualization and visual process are emphasized. Extensive computer work is involved. Depending on the instructor and time, three-dimensional animation (Form-Z, Electric Image) may be explored. Lecture (30.00) Studio (30.00)

**CG 113: Graphic Web Design (3.00 cr.)**

In introductory course on creative designing for the World Wide Web. Fundamental principles of typography and composition are explored in addition to ideas of navigation and technical web production. Emphasis on learning the foundations of web based programs, visual articulation of idea and graphic production techniques for web publishing. Applications such as Dreamweaver, Flash and Photoshop Image Ready will be used to create dynamic interactive web sites. Lecture (30.00) Studio (30.00)

**CG 114: Digital Photography (3.00 cr.)**

This is an introductory course in basic usage of the digital camera and creating digital images. Students will learn the essentials of digital imaging along with the visual elements and design principles as they apply to photography. Students will explore content and composition in addition to technical skills. Students will also learn how to use scanners, printers and Adobe Photoshop software. Lecture (30.00) Studio (30.00)

**CG 201: Fundamentals of Graphic Design (3.00 cr.)**

Fundamentals of Graphic Design attempts to teach students the graphic design principles of concept, process and craft. Emphasis is on the relationship of type and image in creating meaning, as well as, research and exploration into mechanical production needed in solving and executing design problems. The assignments given are intended to expose students to various aspects of research, visualization, experimentation, production and critique. The course also examines the foundation and methodologies of fine arts (form, composition, color) and its relevance to graphic design. Prerequisite: CG 102. Lecture (30.00) Studio (30.00)

**CG 203: Communication Design (3.00 cr.)**

Communication Design applies the principles established in the Fundamentals of Graphic Design course, to generating a body of work geared towards a professional design portfolio in the areas of poster, publication, packaging and screen-based design. The class is developed for graphic design students to exercise conceptual and formal skills in producing intelligent (thought through), visual solutions to graphic design problems. Students are expected to have a competent level of computer and graphic literacy. Prerequisite: CG 201 Lecture (30.00) Studio (30.00)

**CG 204: Graphic Design Internship (3.00 cr.)**

Graphic Design Internship is the final course in the curriculum where the students will apply the skill sets attained from the past three semesters to professional practice. The course is for graphic design majors who have demonstrated advanced skill levels and have shown the potential to perform in a work environment. The internship will allow advanced students to gain practical experience in the field by working in environments such as advertising agencies, graphic design studios, corporate in-house design departments, or on campus publication sites. Through real-world experience the students will gain additional practical skills in their interaction with designer, developers, and print production personnel. Prerequisite: CG 203. Internship (135.00)

**CG 205: Portfolio Preparation & Presentation (3.00 cr.)**

Students will develop a professional portfolio in preparation for entry into the workforce. Portfolio presentation and visual/verbal articulation will be stressed. Students will create a resume and develop a digital and print based portfolio for critique and suitable for presentation to a school, client or job interview. Students will also present a written, as well as, verbal presentation to faculty and/or students. Prerequisite: CG 201. Lecture (30.00) Studio (30.00)

**COMPUTER SCIENCE****CS 101: "T" Introduction to Microcomputers (3.00 cr.)**

This course is designed for students with an understanding of computers. Students will learn the basic hardware components of a microcomputer, terminology of computing, file management and the fundamentals of using application software to prepare documents, spreadsheets and presentations. The social, ethical, and privacy related aspects of computing are deliberated. Prerequisite: EN 060. Lecture (45.00)

**CS 102: "T" Applications on the Microcomputer (3.00 cr.)**

This course covers the more advanced features of word processing and spreadsheets that are not covered in CS 101 as well as database software. The integration of application software will also be covered. Prerequisite: CS 101 or permission of instructor. Lecture (45.00)

**CS 110: Technology Literacy (2.00 cr.)**

This course will focus on ethical, social, and security issues stemming from the use of computers in society. This course will stress ethical decision-making and social responsibility in connection with technology-related concerns. Issues such as security, crime, privacy, intellectual property and social media will be examined in the context of computer use. Internet browsing, researching, and keyboarding skills will also be introduced and refined. Lecture (30.00)

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

Students will learn the fundamentals of programming in an object-oriented three dimensional interactive animation environment. Students will create animation projects using a special software package for creating animation in small virtual worlds using three-dimensional models. Students will obtain a strong core of fundamental programming concepts and problem-solving techniques providing a basis for further study in a variety of computer related fields. Lecture (60.00)

**CS 112: Computer Science II (4.00 cr.)**

This course introduces students to programming and problem solving using an object-oriented programming language. Algorithm development and basic problem solving techniques are introduced. Fundamental topics of computer programming including sequence, selection, repetition, input/output, functions, parameter passing, classes, scope, lifetime, and arrays are introduced and explored through discussion and lab experiences. The course emphasizes good software engineering principles and fostering fundamental programming skills in the context of a language that supports the object-oriented paradigm. Prerequisite: CS 111 or permission of the instructor. Lecture (60.00)

**CS 132: Web Page Development I (4.00 cr.)**

Introduces the student to the fundamental concepts and techniques used for the design and development of web pages using Hyper Text Markup Language (HTML), XHTML, Cascading Styles Sheets, and multimedia web technologies. In addition, students will explore the use of an example Content Management System to develop a website. Note: CS132 students will need sufficient computer skills to be able to perform basic file management: create, delete, rename and/or copy folders and files. (Example: use Windows Explorer or a similar tool to do file management tasks.) Lecture (60.00)

**CS 170: PC Services & Support (4.00 cr.)**

Provides students with the technical training and diagnostic skills required to support high technology in a multi-faceted environment including operating system essentials, troubleshooting, hardware installation and configuration, printer diagnostics and troubleshooting, and an overview of local area networks. During hands-on lab instruction, students are teamed in small work groups to take apart and rebuild a PC. Lecture (60.00)

**CS 175: Core Client Operating System (3.00 cr.)**

Students are introduced to the functions and features of installing, configuring and maintaining Windows as a client operating system. Through

hands-on lab instruction, students will learn about installation, administration of resources, managing and troubleshooting hardware devices and drivers, network protocols, and security. Lecture (45.00)

**CS 210: Database Management (4.00 cr.)**

This course introduces students to the fundamentals of databases and data analysis, emphasizing that the key to successful database implementation is in proper design to fit within a larger strategic view of the data environment. Students will learn to analyze and model data (i.e., design), then create and utilize a database. Students will use SQL as a query language, along with other database management tools. The labs, projects and exercises incorporate real-world business cases to help students develop database and system analysis skills. Prerequisite: CS 112. Lecture (60.00)

**CS 212: C++ Programming (4.00 cr.)**

This course introduces programming in C++ from an object-oriented perspective to students with some prior exposure to programming. Students will specify, design, write, debug, and execute assigned programming projects. Topics include simple data types, control structures, array and string and file data structures, and pointers to dynamic memory structures. Sorting and search algorithms will be examined to further develop understanding and skills in C++ programming with a variety of data structures. The course emphasizes good software engineering principles and developing fundamental programming skills in the context of a language that supports the object-oriented paradigm. Prerequisite: CS 112 or permission of the instructor. Lecture (60.00)

**CS 215 Visual Basic Programming (4.00 cr.)**

Introduces the student to the standards and conventions of programming the graphical user interface (GUI). Visual Basic will be utilized to develop GUI design programs and to use simple and array variables, database access, animation, as well as sequential and random file access. In addition, consideration will be given to the use of Visual Basic and the object-oriented programming paradigm. Prerequisite: CS 112 or permission of the instructor. Lecture (60.00)

**CS 216: Intermediate JAVA Programming (4.00 cr.)**

This course is primarily for students majoring in Computer Science and related fields, and continues an introduction to the methodology of programming from an object-oriented perspective. Students will develop programs using built-in, programmer-created, and dynamic data structures. Sorting and search algorithms will be examined to further develop understanding and skills in Java programming. Topics include inheritance, class hierarchy, polymorphism, and abstract and interface classes. The course emphasizes good software engineering principles and fostering intermediate programming skills in the context of a language that supports the object-oriented paradigm. Prerequisite: CS 112 or permission of the instructor. Lecture (60.00)

**CS 217: Introduction to Networks (4.00 cr.)**

Covers the fundamentals of network design and implementation, including cables and devices,

widely used network protocols, and features and performances of network operating systems. The focus is on entry-level network support in a multi-level environment. Lecture (60.00)

**CS 222: Intro to Android Programming in JAVA (4.00 cr.)**

This course will introduce beginner and intermediate Java programming students to the development of applications for Android devices such as cell phones and tablet computers. Students will use an Integrated Development environment such as the Android Studio to develop simple java applications. The class will explore a variety of development strategies, then explore concepts in hands-on laboratory sessions. Each student will complete an application development project independently using a mix of Android services and features. Prerequisite: CS 112 or permission of the instructor. Lecture (60.00)

**CS 226: Network Infrastructure Implementation (4.00 cr.)**

Prepares the student for installing, configuring, managing and supporting a network infrastructure that uses the Microsoft Windows Server family of products. Prerequisite: CS 275. Lecture (60.00)

**CS 228: Active Directory Design and Implementation (4.00 cr.)**

Students are introduced to the principles of Active Directory structure, administration, configuration and maintenance. Prerequisite: CS 275. Lecture (60.00)

**CS 229: Linux Installation & Configuration (3.00 cr.)**

Prepares the student to configure Linux compatible hardware components, select and install a Linux distribution and to configure the Linux software system. Prerequisite: CS 170. Lecture (45.00)

**CS 233: Routing and Switching Essentials (4.00 cr.)**

This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPng, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks.. Prerequisite: CS 217. Lecture (60.00)

**CS 234: Scaling Networks (4.00 cr.)**

This course describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement a WLAN in a small-to-medium network. Prerequisite: CS 233. Lecture (60.00)

**CS 235: Connecting Networks (4.00 cr.)**

This course examines the WAN technologies and network services required by converged applications in enterprise networks. The course uses the Cisco Network Architecture to introduce integrated network services and explains how to select the appropriate devices and technologies to meet network requirements. Students learn how to implement and configure common data link protocols and how to apply WAN security concepts, principles of traffic, access control, and addressing services. Finally, students learn how to detect, troubleshoot, and correct common enterprise network implementation issues. Prerequisite: CS 234. Lecture (60.00)

**CS 240: Security+ (3.00 cr.)**

Provides students with a comprehensive overview of network security. The course covers the general security concepts; communication security, information security, cryptography basics, and operational/organizational security are explored in how it relates to further avenues of specialization. Prerequisite: CS 217. Lecture (45.00)

**CS 241: Computer Forensics (3.00 cr.)**

Fundamentals of computer forensics and cybercrime scene analysis including laws, regulations, and international standards; formal methodology for conducting security incident investigations; categories of electronic evidence. The course includes projects involving digital forensic tools. Prerequisite: CS 101. Lecture (45.00)

**CS 242: Principles of Information and Web Security (3.00 cr.)**

Examines the field of information security to prepare information systems students for their future roles as business decision-makers. A balance of the managerial and technical aspects of the discipline is presented. Information Security within a real-world context is included in this course. Lecture (45.00)

**CS 265: Ethical Hacking (3.00cr.)**

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

**CS 275: Core Server Operating System (4.00 cr.)**

Prepares the student to install and configure Windows Server to create file, print, Web, and Terminal servers. Through hands-on lab instruction, students will learn about installation, access to resources, managing and troubleshooting hardware devices and drivers, network protocols, and security. Prerequisite: CS 170 or CS 175. Lecture (60.00)

## ECONOMICS

**EC 201: "S" Principles of Macroeconomics (3.00 cr.)**

An introduction to macroeconomics that includes such topics as economic principles, problems and policies; classical economic ideas; money and banking; and performance measures of the economic system. Prerequisite: EN 060. Lecture (45.00)

**3EC 202: "S" Principles of Microeconomics (3.00 cr.)**

An introduction to microeconomics that includes such topics as price analysis, income distribution, foreign trade, comparative economic systems, and public utilities, transportation and agriculture. Prerequisite: EN 060. Lecture (45.00)

## EARLY CHILDHOOD EDUCATION

**ED 103: Infant/Toddler Curriculum & Development (3.00 cr.)**

Study of the growth and development of children from birth through three, emphasizing the importance of attachment, guidance, temperament and personality, and providing a nurturing and appropriate environment. Prerequisite: PY 115 and ED 106. Lecture (45.00)

**ED 105: Introduction to Special Education (3.00 cr.)**

An overview of the field of special education, the historical background, and laws governing the process, with an introduction to the various types of disabilities included in the field. Prerequisite: PY 115 and ED 106. Lecture (45.00)

**ED 106: Principles of Early Childhood Education (3.00 cr.)**

Acquaints students entering the field of Early Childhood Education with the role and dispositions of the teacher, the contributing factors in quality care and developmentally appropriate practices, the role of play in learning; and the important concepts and theories applicable to the field of early childhood education. This course requires that students observe young children in classroom settings and critically reflect upon how current practices apply to theory. Prerequisite: EN 060. Lecture (45.00)

**ED 110: Infant/Toddler Mental Health (3.00 cr.)**

This course explores the essential elements involved with setting the foundation for the mental health and social-emotional development of infants and toddlers. Topics are supported with research-based information on brain development, attachment theory, temperament and curriculum. This course examines the importance of identifying and meeting social/emotional needs and how these needs relate to the caregiver's interactive process with infants, toddlers and their families. Prerequisite: ED 106 and PY 115. Lecture (45.00)

**ED 201: Math, Science & Technology in Early Childhood Education (3.00 cr.)**

An examination of basic math and science concepts with emphasis on problem-solving and logical thinking, designing units of study, and using technology in the classroom. Prerequisite: ED 106 and PY 115. Lecture (45.00)

**ED 203: Language Development and Emergent Literacy (3.00 cr.)**

A study of language development and methods for teaching listening, speaking, emergent reading and writing skills; phonemic awareness and balanced literacy programs for preschoolers; activities that enhance language and literacy development; and strategies that assist children in acquiring a second language. Prerequisite: ED 106 and PY 115. Lecture (45.00)

**ED 204: Creative Learning Experiences in Early Childhood Education (3.00 cr.)**

A study of various art and music media leading to the preparation of integrated lessons and curricula that foster creativity, active learning, and problem solving through the arts. Prerequisite: ED 106 and PY 115. Lecture (45.00)

**ED 205: Preschool Classroom Management (3.00 cr.)**

An examination of a variety of positive guidance techniques designed to enhance the preschool teacher's ability to effectively manage behavior and teach social skills and conflict resolution. Prerequisite: ED 106 and PY 115. Lecture (45.00)

**ED 209: Child Health, Safety & Nutrition (3.00 cr.)**

An exploration of ways to provide a safe, appropriate environment for children, develop awareness of children's health and nutritional needs, and collaborate with parents to expand health, safety and nutritional information and practices. Prerequisite: ED 106 and PY 115. Lecture (45.00)

**ED 212: Books & Storytelling in Early Childhood Education (3.00 cr.)**

A survey of children's books to prepare students to select literature for use in early childhood classrooms. Includes strategies for designing balanced and integrated lessons to teach content areas. Prerequisite: ED 203, ED 106 and PY 115. Lecture (45.00)

**ED 219: Infant/Toddler Field Experience (3.00 cr.)**

This course is designed to provide opportunities for student seeking initial certification to participate in activities carried out by early childhood educators working with infants and toddlers with and without disabilities in early childhood settings. Through a combination of classroom instruction (2 credit hours) and field experience (1 credit hour) students will have the opportunity to apply new skills and strategies in the infant/toddler classroom. A college instructor will provided on-site supervision throughout the field experience that will coordinate with supplemental instruction in the college classroom. Prerequisite: ED103, ED106 and PY 115. Lecture (30.00) Field Experience (45.00)

**ED 290: The Early Childhood Professional (3.00 cr.)**

This course focuses on the early childhood profession. It includes the study of value and ethical issues in working with children and their families. It also examine legal issues, staff relations and the importance of becoming an advocate for upgrading the profession and improving the services for children. This course requires the student to complete a

program portfolio, write a philosophy of education, and engage in deep reflection. Capstone - take in final semester. Prerequisite: ED 106, PY 115, ED 201, ED 203, ED 205, ED 209 and Co-Requisites: ED 212 or any ED elective. Lecture (45.00)

**ELEMENTARY/SECONDARY EDUCATION**

**ED 101: Historical Foundations of Education (3.00 cr.)**

This course is designed to increase students' understanding of issues affecting education and teaching, as well as the societal impact of our educational system and the integral role of teachers. In our meetings, we will explore the teaching profession, with focus upon the historical and contemporary student of education theory and the goals and structure of public schools in relation to their social purpose. Prerequisite: EN 060. Lecture (45.00)

**ENGINEERING**

**EG 101: Introduction to Engineering I (2.00 cr)**

Introduces the engineering student to a variety of programs and concepts in various fields of engineering. The course will deal with basic computation techniques, problem solving and experimentation. Prerequisite: MA 120 or MA 121. Lecture (30.00) Lab (30.00)

**EG 102: Graphics (3.00 cr)**

Provides the fundamental principles of engineering drawing, fundamental principles of descriptive geometry, graphical mathematics, and CAD. Prerequisite: MA 120 or MA 121. Lecture (30.00) Lab (30.00)

**EG 103: Introduction to Engineering I Lab (2.00 cr)**

Students will participate in small groups to carry out a series of basic engineering experiments. In addition to the experiments, each group will be assigned a specific project and/or a reverse engineering project. The only examination given in the course is during the final week of the semester and will be used in conjunction with the laboratory reports and the term project as a basis for evaluation of student performance. The experiments are scheduled on a round-robin basis and each group performs all four experiments scheduled for this semester. Laboratory reports are due two weeks after the completion of each experiment and is to be submitted as a group report. A term project will be assigned to each group for which a final report is to be prepared by the group and submitted at the end of the semester. Prerequisite: MA 120 or MA 121. Lab (60.00)

**EG 121: Digital Electronics for Engineers (3.00 cr)**

An introductory course in digital Electronics in which the basic concepts in digital electronics will be covered to include binary systems, Boolean algebra, binary arithmetic, basic logic gates, combinational logic circuits analysis and design, flip-flops, sequential circuits analysis and design, digital to analog and analog to digital conversions. Completion of a term project will be required. Prerequisite: MA 120 or MA 121. Lecture (30.00) Lab (30.00)

**EG 201: Engineering Statics (3.00 cr)**

This course covers vector calculation of forces, moments, and equilibrium of particles and rigid bodies, centroid and moment of inertia. Students will gain an adequate knowledge of simple mechanical systems and develop the necessary skills to analyze a moderately complicated system. Co-requisite: MA 130. Lecture (30.00)

**EG 202: Engineering Dynamics (3.00 cr)**

Covers kinematics and kinetics, the work energy principle, impulse and momentum, rigid body motion. Prerequisite: EG 201. Lecture (30.00)

**EG 203: Strength of Materials (3.00 cr)**

Strength of Materials is a follow-on from Statics. It introduces students to the properties and behavior of various materials under certain conditions. These conditions include tension, compression, torsion, bending and loading using fundamental stress, strain, elastic and inelasticity. Prerequisites: EG 201. Lecture (45.00)

**EG 211: Introduction to Engineering II (1.00 cr)**

A continuation of "Introduction to Engineering I" course (EG-101) in which advanced methods in data and statistical analysis will be used to produce legible and concise written reports in some basic engineering case studies. A required final oral presentation will complement the course requirement. Prerequisite: MA 120 or MA 121. Lecture (15.00)

**EG 212: Introduction to Engineering II Lab (1.00 cr)**

A continuation of "Introduction to Engineering Lab I" course (EG-103), in which research-based experiments in basic engineering will be performed. Auto CADD will be used to design a project. A CNC machine and 3-D printer will be used to prototype students' designs. Prerequisite: EG 103. Lab (30.00)

**EG 213 Principles of Electrical Circuit Analysis (4.00)**

Designed to provide the students not only with a comprehensive foundation of circuit and network theory, but also the basic skills of circuit analysis, design, and testing. Starting with Ohm's Law, this course first discusses resistive and DC circuits and introduces Kirchhoff's Laws, Thevenin and Norton equivalents of networks, mesh and nodal analysis, followed by independent and dependent sources, and operational amplifiers. The second half of the course focuses on AC circuits. Laplace transforms will be introduced for transient and steady state response of networks, followed by various applications of AC circuits, such as filters. Computer aided analysis and simulation tools are also presented as contemporary methods of network analysis and design. Prerequisites: PI 142 and MA 130. Lecture (45.00) Lab (30.00)

**ENGINEERING TECHNOLOGY**

**IT 102 Fundamentals of Engineering Technology Design (3.00 cr)**

This course covers fundamentals in drafting techniques, graphics, computer-aided design and manufacturing. Students will gain a foundation in CAD

and also get an introduction to manufacturing models and cutter location data using CAD/CAM software as AutoDesk Fusion 360 and Pro/E. This will prepare students for advanced engineering tech design and CNC programming. Prerequisite: EN 060 and MA 094 Lecture (30.00) Lab (30.00)

**IT 105: Blueprint Reading & Sketching (2.00 cr)**  
Students learn the technical information and methods of blueprint construction and interpretation, sketches and prints that are necessary to visualize various manufacturing and fabricating processes, and standard drafting techniques. Prerequisite: EN 060, MA 091. Lecture (30.00)

**IT 107: Circuits I (3.00 cr)**  
Students learn the concepts of DC theory, single phase AC and three phase AC, ladder diagrams and components found in an industrial electrical circuit. In the laboratory students will develop the necessary skills to use a meter to troubleshoot an electrical circuit. Prerequisite: EN 060, MA 094. Lecture (30.00) Lab (30.00)

**IT 111: Electronics (4.00 cr)**  
A study of semiconductor devices and applications. Diodes, transistors, mosfets, FET Transistors and UJT Transistors, SCR's and Tri AC's are analyzed. Prerequisite: IT 107 or PI 124. Lecture (45.00) Lab (30.00)

**IT 116 Workplace Ethics (1.00 cr)**  
Students study human relations and professional development that exists in today's rapidly changing world so that they become better prepared for living and working in a complex society. Topics include co-worker mindfulness, timeliness, human relations, job acquisition, job retention, job advancement and professional image skills. Lecture (15.00)

**IT 118 Tools & Measurements (1.00 cr)**  
Tools and Measurement introduces basic measurement, precision measurement tools, and dimensional gauging. Learners will cover concepts such as S.I. Measurement, U.S. Customary Measurements, Tape Measure and Measurement Conversion. Applications taught include using a dial caliper, digital caliper, English micrometer, and metric micrometer. Dimensional Gauging will include an introduction to gauging as well as indicator measurement and data collection. This course provides an overview of a broad range of basic concepts in measurement including how to use precision tools and learning about dimensional gauging concepts. Lecture (15.00)

**IT 160 CNC Programming (4.00 cr)**  
A study of the capabilities, programming procedures, advantages, and disadvantages of numerical control (N/C) and computerized numerical control (CNC) metalworking machine tools. Manual methods for generating, debugging, and running point-to-point and continuous path programs including linear and circular interpolation, canned cycles, loops, and subroutines to produce work pieces of increasing complexity. This course will be completed in a lab setting and is based on lecture and lab. Prerequisite: IT 211 Lecture (30.00) Lab (45.00)

**IT 162: Quality Control (3.00 cr)**  
Introduces the student to the key national and international standards used in quality management systems. Students learn to evaluate and audit the conformance of business and manufacturing quality systems to these major standards. Prerequisite: EN 060, MA 094. Lecture (30.00) Lab (45.00)

**IT 205: Digital Electronics (3.00 cr)**  
Provides students with information and experience on integrated circuits which are used in analyzing and storing data. Co-Requisite: MA 110. Lecture (30.00) Lab (30.00)

**IT 211: Advanced Engineering Tech Design (3.00 cr)**  
Offers intermediate CAD drawing which will include working detail and assembly drawings of machines, machine components, elementary gear and cam design, as well as 3D solid models. Prerequisite: IT 102. Lecture (15.00) Lab (60.00)

**IT 212 CAD III (3.00 cr)**  
This course emphasizes advanced CAD drawings, 3-D solid models, and rendering which incorporates a capstone project. This course promotes self paced learning and synthesis of skills previously applied in CAD I and CAD II. Students will demonstrate mastery and proficiency in Computer Aided Drafting & Design techniques. Prerequisite: IT 211. Lecture (15.00) Lab (60.00)

**IT 218: Programmable Logic Controllers (3.00 cr)**  
The Allen Bradley SLC 500 series PLC is used to provide students with an understanding of PLC programming. Prerequisite: IT 111. Lecture (30.00) Lab (30.00)

**IT 221 Fundamentals of Manufacturing (4.00 cr)**  
A study of selected materials and related processes used in manufacturing including plastics and metals. Prerequisite: IT 160. Lecture (30.00) Lab (30.00)

**IT 223 Statics for Technology (3.00 cr)**  
Provides an understanding of equilibrium of particles and rigid bodies subject to concentrated and distributed forces. Upon successful completion of this course, the students should be able to analyze problems involving the equilibrium of particles and rigid bodies, including simple machines, trusses, and frictional forces. Prerequisite: MA 120. Lecture (30.00) Lab (30.00)

**IT 224 Dynamics for Technology (3.00 cr)**  
Provides an understanding of the mathematics of the motion of particles and rigid bodies, and the relation of forces and motion of particles. Upon successful completion of this course, the students should be able to describe the motion of particles and rigid bodies as functions of time and position, develop their equations of motions due to applied forces, and determine post impact behavior. Prerequisite: IT 223 Lecture (30.00) Lab (30.00)

**IT 227 Circuits II (3.00 cr)**  
This second course in Electrical Circuits expands on Circuit Theory introduced in IT 107. It includes Ohm's and Kirchoff's Laws for analysis of series and parallel AC circuits. Series-parallel, ladder and bridge networks are analyzed using AC signals. Resonance

and frequency response are included. The basic theory and operation of diodes and transistors, including dc biasing are studied. Circuit simulation and laboratory experiments are designed to support the theory and obtain measurement skills and an understanding of the mathematics of the motion of particles and rigid bodies, and the relation of forces and motion of particles. Upon successful completion of this course, the students should be able to describe the motion of particles and rigid bodies as functions of time and position, develop their equations of motions due to applied forces, and determine post impact behavior. Prerequisite: IT 107 Lecture (30.00) Lab (30.00)

**IT 228 Engineering Technology Internship (3.00 cr)**  
An internship is an integral part of engineering education. It provides real world experience in the profession; Enables correlation of class room learning with its application in industry; Broadens understanding of the types of employment available in the field; Helps students discover their individual interests; Builds resume credentials for the students; and develops relationships between Cumberland County College and local Industrial Firms Prerequisite: EG 101 Lecture (30.00) Lab (30.00)

**IT 240 Pneumatics and Hydraulic Automation (3.00 cr)**  
Hydraulic principles, types of hydraulic fluids and their characteristics are covered. Describes components of the hydraulic system and their functions, including filters and strainers, reservoirs and accumulators, pumps, piping, tubing and hoses, control valves, and actuating devices. Covers a variety of operating principles of reciprocating, positive displacement, rotary and dynamic air compressors. Covers primary and secondary air treatment. Includes valves, logic devices, cylinders, and air motors. Prerequisite: IT 218 Lecture (30.00) Lab (30.00)

**IT 241 Robotics and Motion Control (4.00 cr)**  
A study of the basics of industrial automation systems especially flexible manufacturing. Students gain and understanding of both industrial and commercial robotics technology including sensors and sensors. Prerequisite: IT 211 Lecture (30.00) Lab (30.00)

**IT 242 Advanced PLC (3.00 cr)**  
Use of programmable controllers and computers in factory automation. Topics include process control, supervisory software, PLC networking, PLC/CNC integration, device configuration, use of programming software and PLC language standards. Prerequisite: IT 218 Lecture (30.00) Lab (30.00)

**IT 243 Drone Applications (3.00 cr)**  
A first course in unmanned aerial vehicles (UAVs), aka "drones", and the technologies involved in their operation. Coverage includes UAV components, command and control (C2) communication systems, basics of flight, regulatory agencies and regulations, safety and societal considerations. Laboratory activities provide opportunity for students to gain hands-on experience in working with UAVs. Prerequisite: IT 218 Lecture (30.00) Lab (30.00)

## ENGLISH

### EN 050: Introduction to College

#### Reading and English I

(6.00 cr)

Introduction to College Reading and English I is an intensive developmental course designed to provide students with the foundations needed for academic reading and writing. In this integrated reading and writing course, students develop a range of strategies for reading different kinds of texts and will practice the stages of the writing process with special focus given to sentence and paragraph organization and structure. This six credit class meets for seven hours each week: five hours in a traditional classroom and two in the Developmental Education Lab (A24). Lecture (75.00), Lab (30.00)

### EN 060: Introduction to College

#### Reading and English II

(4.00 cr)

Introduction to College Reading and English II is an intensive developmental course designed to provide students with the foundations needed to achieve College and Career Readiness (CCR) in literacy, which includes both reading and writing. In this integrated course, students will develop and apply strategies for comprehension through reading literature and informational complex text. This course will also focus on textual support and evidence-based writing with special focus given to paragraph and essay development using the writing process. This four-credit class meets five hours each week: three hours in a traditional classroom and two hours in the Developmental Education Lab (A24). Prerequisite: EN 050 or appropriate score on placement test. Lecture (45.00), Lab (30.00)

### EN 070 English Composition I Workshop (1.00 cr)

English Composition I Workshop is linked to English Composition I and is designed to enhance that course for students who need support in reading/writing. This course takes place in a computer lab where students are assisted in the learning process to improve reading and writing skills. The combined English Composition I and English Composition I Workshop sections allow students to work on English Composition I assignments with the guidance of their instructor. This one-credit class meets for two hours each week: one hour with instructor and one hour in with lab staff. Prerequisite: Completion of EN 050 or EN 060, and/or appropriate score on the placement test; Co-requisite: Each section of this course is linked to a single section of English 101. Lab (30.00)

### EN 101: "C" English Composition I

(3.00 cr)

To develop and strengthen skills in writing through frequent and varied writing assignments. The course emphasizes organization of material, the structure of the English language, and many of the rhetorical devices that are used in persuasive writing. Modern computers are used in the lab portion of EN 101. Completion of EN 060, and/or appropriate score on the placement test. Lecture (45.00)

### EN 102: "C" English Composition II

(3.00 cr)

English 102 is a genre course. The first goal is to introduce the student to various genre forms – short story, drama, poetry – for the sake of a better understanding of them in critically analyzing these

works of literature. The second major goal is related to the writing skills mastered by the student in English 101. Since English 102 is also a writing course, the student is expected to develop the ability to write logically structured critical explications of literary works. Prerequisite: EN 101 with passing grade of C or better. Lecture (45.00)

### EN 103: "C" Technical Writing

(3.00 cr)

Students will focus on aspects of technical communication both written and oral. This writing course will provide students with the basic skills and techniques necessary to write clear reports, instructions, manuals, abstracts, brochures and definition documents, as well as deliver oral presentations. Prerequisite: EN 101. Lecture (45.00)

### EN 201: "H" British Literature I

(3.00 cr)

EN 201 is a survey course of English/British literature from the Medieval Period through the Period of the Restoration and the 18th Century. Since the purpose of a survey course is to study those authors contributing the most significantly in the widest possible range, the focus in this course is on the major authors of each period. Prerequisite: EN 102. Lecture (45.00)

### EN 202: "H" British Literature II

(3.00 cr)

English 202 is a survey course of English/British literature from the Romantic Period (late 18th century) through the early Modern Period (WWI). Since the purpose of a survey course is to study those authors contributing most significantly in the widest possible range, the focus is on the major authors of each period. Prerequisite: EN 102. Lecture (45.00)

### EN 204: Business Communication

(3.00 cr)

Offers a study of the fundamental principles of business letter and report writing in order to prepare the student to write effectively in the business environment. Prerequisite: EN 101. Lecture (45.00)

### EN 205: "H" Masterpieces of Western Literature I

(3.00 cr)

Masterpieces of Western Literature is a literature survey course designed to introduce the student to some of the major works in Western literature from the time of the ancient Greeks to the period of the Renaissance. The works chosen for study reflect the traditional view of what are seen as seminal or significant literary masterpieces in the development of Western civilization. The course examines each work in terms of the historical context in which it was written and attempts to assess its impact on its historical period as well as on the subsequent development of Western institutions. Students are afforded an opportunity to examine and evaluate each work in terms of both its literary and historical significance. Such assessments are made through oral discussion or the works in the classroom and written analysis in required papers. Prerequisite: EN 102. Lecture (45.00)

### EN 206: "H" Masterpieces of Western Literature II

(3.00 cr)

Masterpieces of Western Literature II is a literature survey course designed to introduce students to major works in Western literature from the time of the Enlightenment to the twenty-first century. The course

examines each work in terms of the historical context in which it was written and attempts to assess its impact on its contemporary historical period as well as the subsequent development of Western institutions and civilization. Students are afforded an opportunity to examine each work in terms of its literary and historical significance. Such assessments are made through oral discussion of the works in class and written analyses in required papers. Prerequisite: EN 102. Lecture (45.00)

### EN 208: "H/D" Images of Women in Literature

(3.00 cr)

EN 208 is a survey of the images of women in literature from ancient myth and folklore to the present time. Selected fiction, drama, poetry, and nonfiction will be read and discussed, and the images of women analyzed in relation to the traditions, philosophies, and historical background of the period in which they appear. Prerequisite: EN 102. Lecture (45.00)

### EN 209: "H" American Literature I

(3.00 cr)

English 209 is a survey course of American literature from the colonial period through the nineteenth century. Since the purpose of a survey course is to study those authors contributing the most significantly in the widest possible range, the focus in this course is on the major authors of each period, yet writers of lesser stature are not excluded. Prerequisite: EN 102. Lecture (45.00)

### EN 210: "H" American Literature II

(3.00 cr)

EN 210 is a survey course of American literature from mid-nineteenth century – Age of Realism – through mid-twentieth century literature. Since the purpose of a survey course is to study those authors contributing the most significantly in the widest possible range, the focus in this course is on the major authors of each period, yet writers of lesser stature are not excluded. Prerequisite: EN 102. Lecture (45.00)

### EN 219: "H" Modern American Literature (3.00 cr)

This is a survey course of American literature from 1945 until the present—the post-World War II period to the beginning of the Millennium. This course will examine the writings of most of the major literary figures whose writing reflected the times and influenced the minds of the American public in the areas of the short story, poetry, and drama. Prerequisite: EN 102. Lecture (45.00)

### EN 221: "H" Short Story

(3.00 cr)

The general goal of this course is to develop within the student an appreciation of the short story as a unique genre form. The focus in the course is on either a historical approach or a thematic approach to the study of selected stories with the emphasis on form, theory, and interpretation. Prerequisite: EN 102. Lecture (45.00)

### EN 222: "H" Drama

(3.00 cr)

This course offers a reading of several plays in order to provide an historical survey of drama from the ancient Greeks to contemporary dramatists. The course requires students to practice the advanced critical writing and thinking skills initiated in English Composition 102. Prerequisite: EN 102. Lecture (45.00)

**EN 223: "H" Poetry (3.00 cr)**

The course in poetry is designed for students to delve more deeply into the meaning of poetry and the role poetics have played in literary and cultural history. This course traces the growth of poetry in English by either a chronological or thematic approach, and introduces the student to the elements of poetry's construction, meaning, and criticism. Prerequisite: EN 102. Lecture (45.00)

**EN 225: "H/D" Introduction to Latino Literature (3.00 cr)**

English 225 is designed to introduce students to a particular and important genre. The course intends to have the student survey and gain an appreciation of Latino novels, plays, poetry, and short stories by reading works that are timeless and important. Prerequisite: EN 102. Lecture (45.00)

**EN 231: Journalism/News Writing I (3.00 cr)**

This class introduces students to the theories and practices of writing for various types of new media. Students will learn the basic forms of news stories including crime, courts, disasters, obituaries and sports. Students will learn how these forms are presented and the differences associated with writing for the print media and writing for online publications. Students will also learn interviewing techniques, editing skills, how to work a beat, and how to utilize the Internet for research. Co-requisite: EN 101. Lecture (30.00) Lab (30.00)

**EN 232: Journalism/Writing for Electronic Media (3.00 cr)**

This class capitalizes on the skills students learned in EN 231 and introduces them to more advanced forms of newswriting. Students will learn how to write in-depth features and investigative pieces that go beyond the basic news story. Students will also learn how to use more modern storytelling techniques, and create an online portfolio. Again, their work will be showcased in The Voice and The Voice Online. Prerequisite: EN 231. Lecture (30.00) Lab (30.00)

**EN 241: Publication Layout & Design (3.00 cr)**

This class introduces students to the theories and practices of designing various forms of media. Students will learn how to use computers and programs necessary to create newspapers and a basic news website. In doing so, students will learn how to prioritize and organize the news in several different forms. Prerequisite: EN 101. Lecture (30.00) Lab (30.00)

**EN 242: Advanced Publication Layout & Design (3.00 cr)**

This class capitalizes on the skills students learned in EN 241 and introduces them to new techniques and methods of publication layout and design. Students will continue to learn about newspaper and website design and maintenance, but will also learn new skills including magazine layout and design and the incorporation of audio and video files to news websites. Students will also learn how to use technology to improve existing publications and websites. Prerequisite: EN 241. Lecture (30.00) Lab (30.00)

**ENGLISH AS A SECOND LANGUAGE**

These courses cannot be used for graduation credit

**EL 010: Listening & Speaking I (3.00 cr)**

This Introductory level course provides instruction in basic academic listening and speaking skills. Students practice listening for main ideas and specific information, identifying stressed words and reductions, getting meaning from context, and speaking in many simple role-playing situations. (Students must possess a basic understanding of English to enter this course). Lecture (45.00) Lab (15.00)

**EL 015: Reading and Writing I (3.00 cr)**

This course provides instruction in basic academic reading and writing skills. Students practice identifying simple main ideas, classifying and organizing primary information, preparing short summaries, and using context clues to identify vocabulary meaning. Students will also practice writing simple topic sentences, placing written information in a logical order, using brainstorming and free-writing techniques to generate ideas, and creating short written outlines. (Students must possess a basic understanding of English to enter this course). Lecture (45.00) Lab (15.00)

**EL 020: Listening & Speaking II (3.00 cr)**

This Low-Intermediate to Intermediate-level course builds upon the listening and speaking skills introduced in EL 010. Students practice listening to academic lectures, taking effective notes, using intonation to understand meaning, distinguishing between vocabulary words with similar pronunciation, and communicating through debate and discussion. Completion of EL 010, and/or appropriate score on the placement test. Lecture (45.00) Lab (15.00)

**EL 025: Reading and Writing II (3.00 cr)**

This course provides instruction in low-intermediate reading and writing skills. Students practice scanning written material for important information, skimming for main ideas, predicting reading content, understanding conclusions, making inferences, distinguishing facts from opinions, and reviewing vocabulary meaning. Students will also practice writing topic sentences of increased complexity, arranging written ideas in order of importance, editing and proofreading text for clarity, writing concluding sentences, adding details to a paragraph, and making comparisons. Completion of EL 015, and/or appropriate score on the placement test. Lecture (45.00) Lab (15.00)

**EL 030: Listening and Speaking III (3.00 cr)**

This High-Intermediate level course builds upon the listening and speaking skills presented in EL 020. Students practice accurately pronouncing English words, using various spoken expressions and phrases, discussing main ideas in conversations, using "tag" questions to ask for information, and inferring meaning from spoken context clues. Completion of EL 020, and/or appropriate score on the placement test. Lecture (45.00) Lab (15.00)

**EL 035: Reading and Writing III (3.00 cr)**

This high-intermediate level course provides continued instruction in reading and writing skills. It focuses on identifying main ideas; skimming and

scanning written materials for information; defining vocabulary through the identification of word parts, such as synonyms, antonyms, and context clues; identifying supporting details; predicting events in a reading passage; identifying relationships between and within sentences and paragraphs; and understanding figurative language. The course also emphasizes developing proficiency with the variety of styles found in academic writing. Students will practice creating effective topic sentences; editing paragraphs and essays for coherence, unity, and organization; writing about cause/effect and comparison/contrast relationships; using quotations, paraphrasing, and sensory details to support opinions; and editing for coherence. Completion of EL 025, and/or appropriate score on the placement test. Lecture (45.00) Lab (15.00)

**EL 040: Listening and Speaking IV (3.00 cr)**

This Advanced level course is the culmination of the ESL listening and speaking curriculum. Successful completion of this course enables students to better comprehend college-level listening and speaking tasks. Students practice participating in discussions and debates, making speeches, using idiomatic expressions, and utilizing voice intonation and inflection. Completion of EL 030, and/or appropriate score on the placement test. Lecture (45.00) Lab (15.00)

**EL 045: Reading and Writing IV (3.00 cr)**

This Advanced level course is the culmination of the ESL reading and writing curriculum. Successful completion of this course enables students to better complete college-level reading and writing tasks. Students practice composing paragraphs and essays, identifying grammatical structures in sentences, analyzing effective punctuation, and recalling appropriate vocabulary. Completion of EL 035, and/or appropriate score on the placement test. Lecture (45.00) Lab (15.00)

**FOREIGN LANGUAGE****FR 101: "H" Elementary French I (3.00 cr)**

This course offers students with no previous knowledge of French an introduction to the French language and culture, including practice in listening, speaking, reading and writing. Prerequisite: EN 060. Lecture (45.00)

**FR 102: "H" Elementary French II (3.00 cr)**

This course offers students a continuation of the development of French language skills introduced in Elementary French I. Listening, speaking, reading and writing skills, as well as additional grammatical structures of the French language will be emphasized. This course will present various aspects of the cultures of Francophone countries. Prerequisite: FR 101. Lecture (45.00)

**LI 101: "H" Elementary Italian I (3.00 cr)**

This course provides students with an introduction to Italian language and culture. Students will learn how to communicate in elementary Italian about a range of everyday subjects. Students will practice listening, reading and writing in Italian. Prerequisite: EN 060. Lecture (45.00)

**LI 102: "H" Elementary Italian II (3.00 cr)**

This course provides students with a continuation of the development of Italian language skills introduced in LI 101. Listening, speaking, reading and writing skills, as well as additional grammatical structures will be emphasized. Prerequisite: LI 101. Lecture (45.00)

**LS 101H" Elementary Spanish I (3.00 cr)**

This course offers students with no previous knowledge of Spanish an introduction to the Spanish language and culture, including practice in listening, speaking, reading and writing. The history and culture of Spain will be introduced. Prerequisite: EN 060. Lecture (45.00)

**LS 102: "H" Elementary Spanish II (3.00 cr)**

This course offers students with no previous knowledge of Spanish an introduction to the Spanish language and culture, including practice in listening, speaking, reading and writing. The history and culture of Spain will be introduced. Prerequisite: LS 101. Lecture (45.00)

**LS 201: "H/D" Intermediate Spanish I (3.00 cr)**

This course offers the development of greater facility in listening, speaking, reading and writing skills in the Spanish language. More complex grammatical structures will be introduced. The history and culture of Mexico will also be presented. Prerequisite: LS 102. Lecture (45.00)

**LS 202: "H/D" Intermediate Spanish II (3.00 cr)**

This course offers students a continuation of more complex Spanish language skills in listening, speaking, reading and writing. Additional aspects of the history and culture of Mexico will be presented. Prerequisite: LS 201. Lecture (45.00)

**FRESHMAN SEMINAR****FS 101: College Success Seminar (1.00 cr)**

This online course is recommended for all students entering Cumberland County College. Its purpose is to promote academic success, retention and personal enrichment. Courses of this type are required at most colleges throughout the U.S. You will become familiar with our campus and its resources, review study and academic survival skills, and get to know each other and bond as a group. Lecture (15.00)

**FS 102: Career Development (3.00 cr)**

Designed to provide students with an awareness of career issues, personal values, objectives and an informative realistic approach to obtaining work. Lecture (45.00)

**FS 103: Learning Strategies (3.00 cr)**

Designed to provide students with the skills needed to increase their chances of having a successful college experience. Lecture (45.00)

**FS 104: Science, Technology, Engineering & Mathematics Seminar (1.00 cr)**

STEM seminar provides incoming students the opportunity to acquire academic survival skills, develop analytical and critical thinking skills, and develop an awareness of STEM related issues and career options in a variety of STEM majors. Lecture (15.00)

**FS 110: Freshman Seminar (3.00 cr)**

Freshman Seminar prepares students to utilize academic survival skills, discover and affirm individual values and career goals and assists students in becoming organized, self-aware, motivated and success oriented. This seminar provides a uniquely personal and interactive component wherein students become involved in participatory structured activities as a hands-on approach and application of the principles set forth in lectures, presentations and reading materials. Lecture (45.00)

**FS 111: Freshman Seminar: Leadership and Service Learning (3.00 cr)**

This course will begin with traditional freshman seminar focus on academic success including transitioning to college, time management, learning styles, communication, and critical thinking. It will then proceed to make students aware of the tenets of leadership and personal and group leadership skills, with development of an awareness of their own leadership profile. Lecture (45.00)

**GEOGRAPHY****GE 101: "S/D" World Regional Geography (3.00 cr)**

A geographical analysis of the major cultural regions of the world, emphasizing the political, religious and environmental properties of each region. Prerequisite: EN 060. Lecture (45.00)

**GE 102: "S/D" Cultural Geography (3.00 cr)**

An analysis of the spatial patterning of humans and their activities, focusing on population movement through time and the development of different cultural regions. Prerequisite: EN 060. Lecture (45.00)

**GE 110: "D" Cultural Geography of North America (3.00 cr)**

An analysis of the spatial patterning of humans and their activities, focusing on population movements and the political, religious and environmental properties of the major cultural regions of North America. Prerequisite: EN 060. Lecture (45.00)

**HEALTH SCIENCE****HS 101: Elements of Healthcare****Careers (3.00 cr)**

This course will introduce a broad variety of health care professions. This program will expose students of all levels to the following health occupation clusters: administrative, diagnostic, environmental service, information service/technical, and therapeutic. Elements of Health Care Careers will allow students to develop skills and information literacy through critical-thinking activities, teamwork, collaboration, and a hands-on approach to learning. Career exploration will be pursued through field trips or guest speakers, and career assessments. Lecture (45.00)

**HS 103: Medical Terminology (2.00 cr)**

The study of anatomical structures, body systems, medical processes and procedures. The basic purpose of the course is to provide the student with a working knowledge of medical vocabulary. Lecture (30.00)

**HS 104 Introduction to Health****Information Technology (3.00 cr)**

Introduces the student to the aspect of taking health data and presenting it as information. Focus will be on the concepts of health data that include data elements, data sets, data dictionaries, data quality management and the usages of health data. Governmental requirements for data reporting will be reviewed. Data analysis that results in application of information will be emphasized. Basics of health records, format, and documentation will also be discussed. Students will receive instruction on qualitative and quantitative analysis and abstraction with the opportunity to practice from actual health records in the lab. Chart management software will be incorporated into this course for the student to use in the lab. Lecture (45.00)

**HS 105: Introduction to Athletic Training (2.00 cr)**

This course is designed as an initial experience for students considering a career in athletic training. Students will be introduced to various domains, competencies, and proficiencies related to athletic training. An in-depth look at the field of athletic training and the requirements of athletic training programs will be discussed. An observational field experience is required. Lecture (30.00) Lab (45.00)

**HS 109: Holistic Health (3.00 cr)**

This survey course investigates the nature of stress, physiology of stress, ancient healing concepts and modern healing theory. Students experience a variety of complementary interventions such as journaling, meditation, progressive relaxation, imagery, yoga, therapeutic touch, as well as music, art, breath and humor therapy. Lecture (45.00)

**HS 115: Basic Nutrition (3.00 cr)**

This course will outline the relationship of diet, lifestyle, weight management, and the prevention of disease. An overview of the digestion, absorption, and metabolism of protein, carbohydrates, fats, vitamins, minerals, and water will be provided. Nutritional principles, such as dietary fads, cultural patterns, and other consumer concerns will be addressed. Principles of Nutrition will allow students to develop skills and information literacy through critical-thinking activities, teamwork, collaboration, and a research-based approach to learning. Lecture (45.00)

**HS 140: Legal and Ethical Issues in Healthcare (3.00 cr)**

This course will provide an overview of the legal and ethical principles needed for health care workers to give competent and compassionate care to clients. Legal and Ethical Issues in Health Care will allow students to develop skills and information literacy through critical-thinking activities, teamwork, collaboration, and a hands-on approach to learning. Lecture (45.00)

**HS 145: Exercise Science I (3.00 cr)**

This course provides the student with a foundation of exercise science. This foundation includes the following: history and philosophy, careers, professional organizations, certifications, sub-disciplines, research methods, and professional issues. Prerequisite: EN 060, MA 094. Lecture (45.00)

**HS 218: Prevention & Care of**

**Athletic Injuries (3.00 cr)**

This class provides an examination of current practices and procedures in the basic pathology, prevention and care of athletic injuries. The laboratory experience exposes students to wound care, padding, and the art and science of athletic injury taping. An observational clinical field experience will be required. Prerequisite: BI 106. Lecture (45.00)

**HS 245: Exercise Science II (3.00 cr)**

In this course, the student will learn the basic principles of exercise science. The following areas will be examined: human adaptations to strength and cardiovascular training, muscular development, skeletal and neural components of force production, as well as the acute variables of resistance and cardiovascular training program design. Prerequisite: HS 145. Lecture (45.00)

**RM 101: Intro to Healthcare Risk Mgmt. (3.00 cr)**

This course provides a general overview of risk management concepts as applied to the healthcare setting including the roles and responsibilities of risk managers, and the quantitative evaluation of risk and mitigation measures.

**RM 202: Regulatory Healthcare and Patient Safety Compliance (3.00 cr)**

Applicable Federal, State, and local healthcare and patient safety regulations are presented. Practical means of compliance are considered. Relevant topics include occupational and environmental exposures, accident prevention, and emergency management.

**RM 203: Healthcare Liability and Risk Mgmt. (3.00 cr)**

Concepts of malpractice and liability, insurance and the conduct of malpractice litigation including claims settlement are presented. Practical methods of accurate documentation in medical records are discussed.

**RM 204: Emerging Topics in Healthcare Risk Mgmt. (3.00 cr)**

Emerging topics in the field of healthcare risk management are discussed from the perspective of the current literature. This seminar course involves students in presenting, discussing and determining management approaches to risk in a variety of healthcare settings. Students will develop practical skills in the development of effective risk management plans.

**HISTORY****HI 101: "Y" Western Civilization I (3.00 cr)**

A survey of the major movements and ideas in western history through the 1500's. Prerequisite: EN 060. Lecture (45.00)

**HI 102: "Y" Western Civilization II (3.00 cr)**

The purpose of this course is to acquaint the student with the major ideas, people, places, and events that have shaped the course of western civilization from the seventeenth century to the contemporary period. Students will be encouraged to develop a critical and analytical approach to the study of historical problems. Students should discover the complexity

of historical forces and increase their understanding of political, social, economic, cultural, and intellectual developments and their interrelation. Prerequisite: EN 060. Lecture (45.00)

**HI 103: "Y/D" World History & Culture I (3.00 cr)**

Students will study the historical development and progression of humankind, specifically the creation of civilization and culture (or cultural identity). This necessarily involves an evaluation of the institutions which evolved and characterized societies. To this end this course will analyze the political, social, economic, intellectual and technological developments which have shaped societies as manifested in beliefs, values, customs, et.al., and, given them their unique stamp. Prerequisite: EN 060. Lecture (45.00)

**HI 104: "Y/D" World History and Culture II (3.00 cr)**

An interdisciplinary and comparative study of major non-European civilizations from the 1800s to the present. Prerequisite: EN 060. Lecture (45.00)

**HI 113: "Y/D" Latin American History (3.00 cr)**

This course will examine the history of Latin America beginning with the rise of its ancient, indigenous civilizations through the contemporary democratic period. The class is designed to provide an analysis of the institutions, events and issues that have shaped the nations of the region. Current events will also be discussed on a frequent basis. Prerequisite: EN 060. Lecture (45.00)

**HI 116: The Holocaust (3.00 cr)**

This course will analyze the historic, intellectual, philosophical, political, social, and cultural variables which converged and culminated in the Shoah or Holocaust. It is the contention of this course that the assault on Jewish life was the logical conclusion of a trend of intellectual and anti-intellectual thought which took shape within the context of European historical development, and which was permitted expression in the political and cultural realms before the appearance of National Socialism and Adolf Hitler on the world stage. Lecture (45.00)

**HI 201: "Y" United States History I (3.00 cr)**

This course will provide a survey of the political, economic, social, cultural, and intellectual history of the United States from its beginnings through the Civil War. Students will be encouraged to develop a critical and analytical approach to historical problems. Students should discover the complexity of historical forces and historical cycles and increase their appreciation of cultural diversity in American history. Prerequisite: EN 060. Lecture (45.00)

**HI 202: "Y" United States History II (3.00 cr)**

This course will provide a survey of the political, economic, social, cultural, and intellectual history of the United States from the Reconstruction period through the present. Students will be encouraged to develop a critical and analytical approach to historical problems. Students should discover the complexity of historical forces and historical cycles and increase their appreciation of cultural diversity throughout American history. Prerequisite: EN 060. Lecture (45.00)

**HI 208: "Y/D" African American History (3.00 cr)**

This course will provide a survey of the political, economic, social, and cultural history of African Americans from the 17th century to the present. Students will be encouraged to develop a critical and analytical approach to historical problems. Prerequisite: EN 060. Lecture (45.00)

**JUSTICE STUDIES****CJ 102: Criminology & Penology (3.00 cr)**

A systematic survey of the nature and extent of crime, the factors related to criminal behavior, theories of treatment and practice, and the functions of the correctional system. Prerequisite: EN 060. Lecture (45.00)

**CJ 104: Criminal Law (3.00 cr)**

A comprehensive study and evaluation of the principles of criminal law with consideration given to theory, history, and purpose of criminal law, general criminal procedures, federal and state court systems, elements for major offenses, and the analysis of leading judicial interpretations. Prerequisite: EN 060. Lecture (45.00)

**CJ 115: Diversity Issues in Criminal Justice (3.00 cr)**

A critical examination of race, gender and other diversity issues in the development, organization and operation of the U.S. criminal justice system. Prerequisite: EN 060. Lecture (45.00)

**CJ 120: Cybercrime (3.00 cr)**

Provides a broad overview of information security and introduces the student to the history, terminology, concepts and management of technology security and cybercrimes in an increasingly interconnected digital world. Prerequisite: EN 060. Lecture (45.00)

**CJ 130 Introduction to Emergency Management (3.00 cr)**

Provides an overview of the fundamental planning requirements for emergency management of various hazards including terrorism, floods, hurricanes and other natural disasters. Prerequisite: EN 060. Lecture (45.00)

**CJ 141: Criminal Justice Leadership: Theory & Practice (3.00 cr)**

An academic approach to the concepts and theory in the study of supervision and leadership as they relate to individuals, groups, leaders and organizations. Prerequisite: EN 060. Lecture (45.00)

**CJ 202: Police Organization & Administration (3.00 cr)**

An examination and comparative analysis of the nature of police organizations and the related concepts of leadership and administration. Prerequisite: EN 060. Lecture (45.00)

**CJ 205: Criminal Investigation (3.00 cr)**

An examination of the techniques of criminal investigation and investigative strategies in conjunction with legal responsibilities and controls that govern police investigations. Prerequisite: EN 060. Lecture (45.00)

**CJ 206: Terrorism (3.00 cr)**

A survey of domestic and international terrorism in historical and comparative contexts. Emphasis is on defining types of terrorism, motivation for terrorism, the role of ideology, and threats against democratic processes. Prerequisite: EN 060. Lecture (45.00)

**CJ 207: The Administration of Justice (3.00 cr)**

An examination of the manner in which the criminal justice system operates in U.S. society from initial incident to final disposition. This course explores the six primary functional areas for the overall administration of justice. These functional areas to be studied include: police, prosecution, courts, corrections, as well as probation and parole. The topics students will review include the U.S. Constitution, as well as Federal and state statutes that affect the criminal justice system. Prerequisite: EN 060. Lecture (45.00)

**CJ 209: Criminalistics (3.00 cr)**

A descriptive presentation of forensic science practices, focusing on how enforcement practitioners examine crime scenes to identify, collect and preserve physical evidence. Prerequisite: EN 060. Lecture (45.00)

**CJ 211: Institutional Treatment of the Offender (3.00 cr)**

A survey of the historical and contemporary treatment of convicted offenders in various types of correctional institutions. Prerequisite: EN 060. Lecture (45.00)

**CJ 212: Principles of Correctional Operations (3.00 cr)**

An introduction to the practices and policies governing correctional systems and an analysis of the theory and practice of correctional programs. Prerequisite: EN 060. Lecture (45.00)

**CJ 213: Criminal Psychopathology (3.00 cr)**

An application of contemporary theories of and treatments for criminal psychopathological behavior. Prerequisite: PY 101. Lecture (45.00)

**CJ 214: Correctional Counseling & Interviewing (3.00 cr)**

An overview of the theories and interviewing methods used for counseling in a variety of correctional settings. Prerequisite: PY 101. Lecture (45.00)

**CJ 215: Criminal Justice Field Work (3.00 cr)**

This course provides the student with a 90 hour, non-paid internship in a range of agencies related to law enforcement. Prerequisite: CJ 207, PA 101, CJ 104 CJ 115, CJ 102 - Co-Requisites: PY 209, CS 241. Fieldwork (90.00)

**CJ 216: Crime Analysis & Mapping (3.00 cr)**

Overview of and hands-on experience in determining the significant features of crime pattern analysis including mapping and the interpretation of data. Prerequisite: EN 060. Lecture (45.00)

**CJ 218: Victimology (3.00 cr)**

A study of victimization, including the relationships between victims and offenders, the interactions between victims and the criminal justice system, and the connections between victims and other societal groups and institutions. Prerequisite: EN 060. Lecture (45.00)

**MATHEMATICS****MA 004: Module 4 Completion (1.00 cr)**

This course emphasizes adding, subtracting, multiplying, dividing real numbers; the introduction to solving equations with one variable; and graphing and solving basic inequalities with interpreting them in interval notation. This course cannot be used for graduation credit. Prerequisite: modules 1a-3b of MA-091 and permission of the Developmental Mathematics Coordinator. Lab (30.00)

**MA 009: Module 9 Completion (1.00 cr)**

This course emphasizes radical expressions; radical equations; and quadratic equations. This course cannot be used for graduation credit. Prerequisite: modules 5a-8b of MA 094 and permission of the Developmental Mathematics Coordinator. Lab (30.00)

**MA 091: Mathematics and Beginning Algebra (3.00 cr)**

This course emphasizes solving adding, subtracting, multiplying, and dividing whole numbers and decimals; basic geometry with area and perimeter of squares, rectangles, triangles; area and perimeter of circles. Multiplying and dividing fractions and mixed numbers; adding and subtracting fractions and mixed numbers with common and uncommon denominators. Ratios, proportions, percents, and simple interest; adding, subtracting, multiplying, dividing real numbers; the introduction to solving equations with one variable; and graphing and solving basic inequalities with interpreting them in interval notation. This course cannot be used for graduation credit. Lab (90.00)

**MA 094: Fundamentals of Algebra (3.00 cr)**

This course emphasizes adding, subtracting, multiplying, and dividing real numbers, polynomials, rational expressions, and radical expressions; solving first degree equations, simple inequalities, literal equations, quadratic equations, rational equations, systems of equations, and radical equations; factoring polynomials; graphing linear equations and systems of equations. This course cannot be used for graduation credit. Prerequisite: MA 091 or appropriate score on placement test. Lab (90.00)

**MA 109: "M" Principles of Mathematics (3.00 cr)**

A problem-solving approach will be used to explore set theory, logic, probability, statistics, mathematical systems, consumer math, and geometric concepts. This course is designed for the non-math/science major. Prerequisite: MA 091. Lecture (45.00)

**MA 110: "M" College Algebra (3.00 cr)**

Topics include polynomial, rational, other algebraic functions; complex number system; exponential and logarithmic functions; and properties and graphs of functions. This course is designed for students who may continue in math, science, technology or business related fields. Prerequisite: MA 094. Lecture (45.00)

**MA 111: Discrete Mathematics (4.00 cr)**

Discrete Mathematics is designed to meet the needs not only of students majoring in computer science but of wider audience, especially students in mathematics and science. The course provides tools for formal reasoning as well as providing an early look at the

connections between mathematics and computer science and the applications they generate. Topics include counting rules, propositional and first-order logic, set theory, functions (with an emphasis on recursive functions), basic equivalence relations, algorithms, proofs, graphs and trees. An introduction to Boolean algebra and switching circuits is included. Prerequisite: MA 110 or permission of instructor. Lecture (60.00)

**MA 115: "M" Mathematical Structures & Algorithms (3.00 cr)**

A problem-solving approach will be used to explore fundamental concepts of various numeration systems; operations on natural numbers, whole numbers, and integers; number theory; fraction models and operations; the real number system; patterns and functions. This course is appropriate for early childhood and elementary education majors. Prerequisite: MA 091. Lecture (45.00)

**MA 120: "M" College Trigonometry (3.00 cr)**

A continuation of MA 110. Topics include angular measure, trigonometric functions, identities and equations, curve sketching, inverse trigonometric functions, applications on right triangles, oblique triangles, vectors, complex numbers, polar coordinates, and conic sections. This course is designed for students who may continue in math, science, technology or business related fields. Prerequisite: MA 110. Lecture (45.00)

**MA 121: "M" Precalculus Mathematics (4.00 cr)**

Topics include polynomial, rational, exponential, logarithmic and trigonometric functions, the complex number system, and conic sections. Precalculus is designed to prepare students for Calculus I. MA 121 is equivalent to the combined MA 110 and MA 120 courses. Prerequisite MA 094 or appropriate score on placement test. Lecture (60.00)

**MA 122: Business Calculus (4.00 cr)**

An introduction to the basic concepts of differential and integral calculus for the business and social sciences. Emphasis is placed on practical applications of limits, derivatives and integrals with business applications highlighted. This course also provides experience with and information about the significance and specific uses of calculus in today's world. This course is not intended for students in mathematical and physical sciences, engineering, or computer science. It is not equivalent to MA-130 and will not transfer as Calculus I.. Prerequisite Placement into Pre-Calculus MA 121 via a CLM score of 60 or greater, or successful completion of College Algebra MA 110 with a "C" or higher.. Lecture (60.00)

**MA 125: Calculus Fundamentals I (3.00 cr)**

Intended for students who are not in Science or Engineering. An introduction to differential and integral calculus of a single variable. Prerequisite Successful completion of Trigonometry MA 120 with a "C" or higher. Lecture (60.00)

**MA 130: "M" Calculus I (4.00 cr)**

This is a rigorous calculus course, designed to prepare students for further study in the sciences, engineering, and mathematics. Topics include limits, the derivative, differentiation techniques, linearization, optimization

methods, Newton's Method, anti-differentiation, Riemann Sums, the definite and indefinite integral, the area under a curve, and a variety of applications for the above. Important theorems include the Fundamental Theorem of Calculus, the Mean Value Theorem, Rolle's Theorem, and the Intermediate Value Theorem. Prerequisite: MA 120 or MA 121. Lecture (60.00)

**MA 140: "M" Calculus II (4.00 cr)**

A rigorous continuation of MA130. Topics include a further development of exponential and logarithmic functions, inverse trigonometric functions, hyperbolic and inverse hyperbolic functions; integration techniques for a variety of integrals; indeterminate limits, L'Hopital's rule and improper integrals; infinite sequence and series, alternate representations of functions using polar and parametric coordinates, calculus using polar and parametric coordinates, conic sections. Theory is augmented by applications from a variety of disciplines. Prerequisite: MA 130. Lecture (60.00)

**MA 205: "M" Statistics I (3.00 cr)**

An introduction to statistical reasoning covering description of sample data, probability, sampling, special distributions, estimation, confidence intervals, hypothesis testing, correlation and regression. Prerequisite: MA 091. Lecture (45.00)

**MA 206: "M" Statistics II (3.00 cr)**

Provides additional statistical research tools and techniques. Topics include testing the difference between means, variances, and proportions; f-test; chi-squared test; ANOVA; linear and multiple regression; correlation; and nonparametric tests. Statistical tests will be presented in the context of basic research techniques. Prerequisite: MA 205. Lecture (45.00)

**MA 207: Linear Algebra Lab for Engineers (1.00 cr.)**

This is a linear algebra lab designed to prepare engineering students for their Differential Equations course. Topics include vector operations, matrix row operations, matrix operations, determinants, vector spaces and subspaces, eigenvalues and eigenvectors, diagonalization and spectral decomposition, various applications, and numerical methods. Students will be introduced to new concepts in a lecture format and will then experiment with those concepts in a lab setting using mathematical software. Prerequisite: MA 140. Lecture (15.00) Lab (15.00)

**MA 208: Linear Algebra (4.00 cr)**

Stresses the interplay between computational techniques, abstract concepts, and applications. Topics include linear systems, matrices, determinants, vectors, vector spaces, eigenvalues, inner products, diagonalization, and transformations. Some finite and numerical computer science topics are also addressed. Prerequisite: MA 140. MA 210 is recommended. Lecture (60.00)

**MA 210: Calculus III (4.00 cr)**

A rigorous continuation of MA140. Topics include a review of infinite series, conic sections, parametric equations, polar coordinate system and equations, vector valued functions, functions of several values, partial and directional derivatives, and multiple integration. Theory is augmented by applications from a variety of disciplines. Prerequisite: MA 140. Lecture (60.00)

**MA 220: Differential Equations (4.00 cr)**

Topics include first order linear equations with constant and variable coefficients, solutions by infinite series, Laplace transforms and numerical methods. Other topics include existence and uniqueness theorems, phase plane and equilibrium points as well as modeling real world problems by using differential equations. Prerequisite: MA 210. Lecture (60.00)

## MUSIC

**MU 101: "H" Music Appreciation (3.00 cr.)**

This one semester course surveys the literature, historical period, elements and forms of music with emphasis on listening and the relationship of music to general cultural development. Through lecture, demonstration, group and class discussions and vocabulary, the lives and work of composers will be considered and placed in the historical context of the times in which they lived. Prerequisite: EN 050. Lecture (45.00)

**MU 102: Fundamentals of Music (3.00 cr.)**

Course consists of a study of harmony, rhythm, music notation, and musical terminology, including learning the staff, notes, intervals, scales, modes, chords, keys and signatures. Learn to develop a basic understanding of music notation and basic structures in music. Lecture (45.00)

**MU 103: Music Theory I (2.00 cr.)**

This course is an introduction to the vertical and linear dimensions of tonal music. After a review of musical fundamentals, in which students will be expected to demonstrate facility and speed in naming and spelling basic tonal materials, the course will introduce traditional contrapuntal exercises, basic diatonic harmony, form, analysis, and composition. Co-Requisite: MU 112. Lecture (30.00)

**MU 104: Music Theory II (2.00 cr.)**

In this course, you will continue the study of tonal harmony and voice leading, both through written work and analysis. We will continue to focus mostly on diatonic harmony; however, we will also begin to explore techniques of modulation. In the second half of the semester we will learn about musical forms, part writing and other skills in compositional techniques. Prerequisite: MU 103. Co-Requisite: MU 113. Lecture (30.00)

**MU 106, 107, 212, 213: College Chorus I, II, III, and IV (1.00 cr.)**

The College Chorus sings many styles of choral literature from the Baroque Era to the present. This course is open to all students who enjoy singing and will enable them to better understand and appreciate the aesthetics of choral music. Studio (30.00)

**MU 108, 109, 208, 209: Concert Band I, II, III, & IV (1.00 cr.)**

Reasonable proficiency on an instrument, and music reading skills, are required. Wind, string, keyboard, and percussion instruments are acceptable for mixed instrumentation repertoire. Students will have to provide their own instruments and equipment. Studio (30.00)

**MU 110, 111, 210, 211: Jazz Ensemble I, II, III, IV (1.00 cr.)**

Jazz Ensemble will provide the opportunity to explore Jazz idioms through a combined listening and performance approach. The development of Jazz from its roots in African rhythm through the chronological style periods will be surveyed by correlated listening and performance literature. Music reading and an introduction to improvisation will be stressed. Studio (30.00)

**MU 112: Ear Training & Sight Singing I (2.00 cr.)**

This course is designed for students who plan to major in music. It begins with an introduction to musicianship to help students learn to read music with a particular emphasis on the basic skills of reading music at sight and the mental recognition of phrases and melodies so they can be transcribed to staff paper. The course includes singing and dictation of rhythms in simple and compound meters, scales, and diatonic melodies; study and analysis of representative music literature are also included. Prerequisite: MU 102; Co-Requisite: MU 103. Lecture (30.00)

**MU 113: Ear Training & Sight Singing II (2.00 cr.)**

This course is continuation of aural skill training with an introduction to modulating melodies and elementary harmonic dictation. This course is the second course in a sequence of two sight singing and ear training courses designed for the student who is majoring in music and is recommended to be taken in conjunction with Theory II. It is a continuation of the learning of musical skills taught in Sight Singing and Ear Training I. This course includes further sight singing and dictation of rhythms in simple and compound meters; diatonic intervals and scales; subdivision of beats in simple and compound meters; and intervals from the Dominant Seventh Chord. Prerequisite: MU 112; Co-Requisite: MU 104. Lecture (30.00)

**MU 114: "H" History of Music (3.00 cr.)**

A study of music from antiquity through the 20th century concentrating on sociocultural influences, function of music, style and performance practice from Western and Eastern European countries, Latin America and United States. Music for voices and instruments will be studied and the composers who wrote the music. Prerequisite: EN 060. Lecture (45.00)

**MU 115 "D": History of Jazz & Popular Music (3.00 cr.)**

Major styles and the major artists in 20th century Jazz. Popular song styles of the 20th century from a variety of idioms: Tin Pan Alley, Jazz, Blues, Latin, Folk, Country, Pop, Rock, Film, etc. Music literature is approached through recordings, live performance and appropriate reading. Lecture (45.00)

**MU 116, 117, 216, 217:****Small Ensemble I, II, III, & IV (1.00 cr.)**

This course is open to all students who read music and can play strings, brass, woodwinds, percussion, guitar, bass, piano, or drums. This course includes the rehearsal and performance of classical, contemporary pop and commercial styles: jazz and rock fusion, rhythm and blues, soul, folk, urban styles, country, and Latin. Performances at concerts are required. Studio (30.00)

**MU 146: Music of the Theatre (3.00 cr.)**

This course will explore the styles of the various musical theatre composers and lyricists of this century. The class will be performance oriented and will require that students learn and perform music of the era being studied. Students will be required to memorize all assigned material. Repertoire studied will include text leading into the musical numbers. In this class, students will learn and perform solos, duets, and ensembles from the musical theatre repertoire. Students will be taught vocal technique as it applies to singers. Vocalizing exercises will be recorded for practice outside of class. In the second semester, time will be devoted to audition techniques. This course is intended to strengthen the actor's confidence in performing a song, while introducing him/her to the wealth of musical theatre material available, so as to build a repertoire of suitable audition and performance material.

Prerequisite: Permission of instructor. Lecture (45.00)

**MU 150-273: Applied Music I, II, III, IV (1.00 cr.)**

Offers group or individual instruction in technique and interpretation for voice or instrument, each course requiring an increase in skill level. Studio (30.00)

**MU 180: Applied Composition (1.00 cr.)**

This course is designed for students who seek the opportunity to create original music compositions. In addition to developing compositional abilities, experiences will include the development of skills needed to analyze and evaluate music. Students will continue to explore music's relationship with other disciplines and its impact on culture, and development of ability to perform/record/present/discuss original compositions. Studio (30.00)

**MU 214: MIDI & Recording I (3.00 cr.)**

This course is an introduction to techniques using computer-based music recording and multimedia software found on the Macintosh platform, principally GarageBand, iPhoto, iMovie. This course is designed to give the aspiring student a sound pedagogical foundation in the theory and application of computer-based music and multimedia technologies. Also, this course covers foundations, practices, and creative techniques in audio recording and music production, including microphone selection and placement, mixing, mastering, signal processing, automation, and digital audio workstations. Lecture (30.00) Studio (30.00)

**NU 107: LPN Transition Course (4.00 cr.)**

Designed to differentiate the scope of practice of the RN from LPN. The conceptual framework and philosophy of the Cumberland County College Nursing Program are introduced, and exercises

applying major concepts provide a basis for the nurse in transition. Prerequisite: Acceptance into the Nursing Program. Lecture (60.00)

**NU 108: Medical Dosage & Calculations (1.00 cr.)**

Designed to enable student nurses and other health professionals to correctly calculate problems involved in medication preparation. Prerequisite: Acceptance into the Nursing Program. Lecture (15.00)

**NU 112: Introduction to Nursing****Success (1.00 cr.)**

An introductory course for the student who is entering into the nursing program. The course emphasizes study and test taking skills along with methods of stress reduction. Prerequisite: Acceptance into the Nursing Program. Lecture (15.00)

**NU 113: Concepts in Nursing Practice I (7.00 cr.)**

This course is the foundation for all remaining courses in the program. In this course students will explore the concepts encountered throughout nursing practice. Focus will be on the concepts related to health across the lifespan. Integrated throughout this course will be the foundations of the nursing knowledge, skills and attitudes for high quality, safe care. Lab will focus on health and physical assessment across the lifespan, as well as basic clinical skills. Demonstration and return demonstration, as well as simulation exercises will be employed. Clinical focus will be outpatient health environments such as adult day care, senior centers, assisted living facilities, long term care facilities and school nursing experiences. Prerequisite: Acceptance into the Nursing Program and BI 101 or BI 102 or CH 101 and EN 060 and MA 094. Lecture (45.00) Lab (45.00) Clinical (120.00)

**NU 114: Concepts in Nursing Practice II (7.00 cr.)**

Students will building upon the concepts learned in NU 110. The meaning of health for children and adults and their families when at risk for or faced with physiological and psychological alterations in their health is explored. Lab will consist of skills, physical assessment and communication skills necessary to care for humans with alterations in health. Demonstrations and simulation exercises will be employed. Students will rotate through three specialty areas to gain the knowledge, skills, and attitudes necessary to provide safe, quality nursing care to diverse clients in health care environment settings. The acute care settings will include a long term care unit, medical surgical unit, a pediatric unit, and a psychiatric unit. QSEN concepts will be integrated throughout the course. Prerequisite: NU 112, NU 113, BI 106, EN 101. Lecture (75.00) Lab (15.00) Clinical (120.00)

**NU 115: Introduction to Physical****Assessment (3.00 cr.)**

Provides a foundation to assist the student to develop and practice the skills used in health assessment of adults. Health history taking, physical examination skills and health promotion techniques will be studied and practiced. The student will analyze and interpret the data obtained from the history and physical examination. Prerequisite: Acceptance into the Nursing Program. Lecture (45.00)

**NU 208: Pharmacology (3.00 cr.)**

This course is an overview of Pharmacology and will include aspects of pharmacokinetic, pharmacodynamics, pharmacognosy and pharmacotherapeutics, classifications of medications, legal and ethical principles regarding clinical drug trials and the FDA approval process will be covered. A special emphasis will be placed on culture, ethnic and age related considerations. This course will provide an understanding of the role of pharmacology in health care. Prerequisite: Acceptance into the Nursing Program. Lecture (45.00)

**NU 209: Nursing Concepts in Global****Health & Diversity (1.00 cr.)**

Students will explore the concepts of diversity; community based nursing practice, and global health. The effects of the family, cultures, societies, and the environment on health will be investigated. Students will gain the knowledge, skills, and attitudes to care for culturally diverse families, and communities through field study projects in areas such as group homes, rehabilitation centers, faith-based centers (parish nursing), clinics, and inpatient and outpatient treatment centers for addictions. (Students may be able to choose from a list of available sites.) In addition students can choose to participate in community health initiatives such as health fairs, flu and immunization clinics, soup kitchens, migrant health care, and programs approved by faculty. Prerequisite: NU 112, NU 113, NU 114, EN 102 or EN 103, BI 107, PY 207. Lecture (15.00)

**NU 210: Concepts in Nursing Practice III (10.00 cr.)**

In this course, students will build upon the concepts learned in NU 111. The meaning of health for children and adults and their families when at risk for or faced with multiple or concurrent physiological and psychological alterations in their health is explored. Students will rotate through three specialty areas to gain the knowledge, skills, and attitudes necessary to provide safe, quality nursing care to diverse clients in health care environment settings. The acute care settings will include a medical surgical unit. ATI Real Life Clinical Scenarios will utilized to meet the requirements for your Maternal/Newborn and Psychiatric objectives. QSEN concepts will be integrated throughout the course. Prerequisite: NU 114, BI 107. Lecture (90.00) Clinical (180.00)

**NU 211: Concepts in Nursing****Practice IV (10.00 cr.)**

This course will incorporate all concepts previously learned with a focus on preparing the student for entry into practice. Students will also explore the meaning of health at times of disaster and at the end of life. Clinical experiences will include rotations through critical care units, emergency departments, and hospice. This course will focus on the knowledge, skills, and attitudes necessary for nursing students entering the practice environments, as well as for the care of clients in acute crisis and at the end of life. QSEN concepts will be integrated throughout the course. Prerequisite: NU 209, NU 210, BI 203, SO 201. Lecture (90.00) Clinical (180.00)

**NU 212: Concepts of Leadership in Health Care Systems (2.00 cr.)**

This seminar course will focus on the knowledge, skills and attitudes to work within the micro and macro environments of the health care system. The focus is on preparing the student for entry level leadership roles in practice. Students will explore the meaning of micro and macro health environments, and the impact they can have on the health care delivery system. A 15 hour leadership practicum in a health care system is required. QSEN concepts will be integrated throughout the course. Prerequisite: NU 210. Lecture (15.00) Practicum (15.00)

**PN 101: Foundations of Practical Nursing Practice (7.00 cr.)**

Foundations of Practical Nursing Practice include an introduction to nursing theory, legal and ethical concepts, cultural influences on health care, technical skills and clinical components. Concurrent lab and clinical experiences facilitate the application of theory to the principles of client assessment and management of care. Using the concepts of professionalism, holism, nursing process, optimal functioning and community based practice, students will provide basic care to selected adult clients who require nursing support. Prerequisite: Admission to the Practical Nursing Program, BI 101 or BI 102 or CH101. Lecture (90.00) Clinical (120.00)

**PN 102: Medical Surgical Practical Nursing (7.00 cr.)**

Medical Surgical Practical Nursing builds on PN 101 to include application of Human Biology into the concepts of pathophysiology, technical skills and clinical components. Concurrent lab and clinical experiences facilitate the application of theory to the principles of client assessment and management of care. Using the concepts of professionalism, holism, nursing process, optimal functioning and community based practice; students will provide medical surgical care to selected adult clients in long term care and acute care facilities. Prerequisite: PN 101, EN 101, BI 106. Lecture (90.00) Clinical (120.00)

**PN 103: Advanced Concepts in Practical Nursing (2.00 cr.)**

Advanced concepts in practical nursing is a capstone course that will allow the student to integrate theory, lab skills and clinical experiences in the care of the acute care medical surgical patient. Concurrent skill lab and clinical experiences facilitate the application of theory to the principles of client assessment and management of care for the acute medical surgical patient. Using the concepts of professionalism, holism, nursing process, optimal functioning and community based practice, students will provide basic care to selected acute care medical surgical clients who require nursing support. Prerequisite: PN 102, HS 115, PY 101. Lecture (60.00) Clinical (150.00)

**PN 104: Family-Centered Practical Nursing Practice (5.00 cr.)**

Family Centered Practical Nursing Practice includes theory, lab skill and clinical experiences to explore the care of women during all phases of pregnancy, and the newborn to age eight, focusing on the application

of theory to the principles of family centered nursing care. In addition, this course will explore areas where social problems impact the members within the family at all developmental stages. The learner will become aware of the causes, symptoms treatments and long term effects of stress, substance abuse and emotional crisis on the family members. Concurrent lab and clinical experiences facilitate the application of theory to the principles of client assessment and management of care. Using the concepts of professionalism, holism, nursing process, optimal functioning and community based practice, students will provide basic care to selected adult, newborn and pediatric clients who require nursing support. Prerequisite: PN 103. Lecture (60.00) Lab (60.00) Clinical (120.00)

**OFFICE ADMINISTRATION**

**OA 101: Keyboarding Skills (3.00 cr.)**

Introduces the student to all functions of the computer keyboard. Topics included are formatting letters and other documents as well as keyboarding business items with accuracy. Prerequisite: EN 060. Lecture (45.00)

**OA 102: Word Processing Skills (3.00 cr.)**

Teaches the student to use Microsoft Word installed on IBM-compatible computers. Topics included are performing the basic operations of creating and editing documents and formatting and saving relevant data. Prerequisite: EN 060. Lecture (45.00)

**OA 109: Medical Office Practice (3.00 cr.)**

Introduces the student to the inner workings of a medical office environment. Topics include conversion of medical procedures and diseases to CPT or other number codes, medical transcription, and basic medical terminology. Prerequisite: EN 060. Lecture (45.00)

**OA 110: Introduction to Health Information Management (3.00 cr.)**

Introduces the student to the development and content of medical records in healthcare settings. Topics include an overview of the healthcare delivery system, career opportunities, legal aspects and an overview of coding and reimbursement in the healthcare field. Prerequisite: OA 109. Lecture (45.00)

**OA 212: Medical Coding (3.00 cr.)**

Topics include the basic theory and constructs of medical coding in both the medical office and hospital environments and the logic and substance of medical coding. The student will develop competency in converting medical diagnostics and procedures into appropriate medical codes. Prerequisite: OA 109. Lecture (45.00)

**OA 217: Medical Office Accounting (3.00 cr.)**

Topics include maintenance of computer-based financial records, processing Medicare and insurance payment forms, depositing receipts, preparing the budget, and financial analysis in a medical office environment. Prerequisite: OA 109, HS 103. Lecture (45.00)

**OA 219: Administrative Office Management (3.00 cr.)**

Teaches the student to utilize computer technology to increase office effectiveness, implement office procedures and practices, process written and electronic communications, plan meetings as well as complete other pertinent administrative tasks. Prerequisite: HS 103, OA 109, OA 110, OA 212, OA 217 and Co-Requisite: OA 222 or OA 299. Lecture (45.00)

**OA 222: Medical Office Internship (3.00 cr.)**

Working under the direction of the course instructor and a medical office mentor, the student will gain practical experience in a medical office learning actual medical office procedures and protocols. Permission of instructor. Prerequisite: HS103, OA 109, OA 110, OA 212, OA 217. Lecture (15.00) Internship (90.00)

**OA 299: Office Administration Seminar (3.00 cr.)**

This capstone course focuses on solving problems typically found in administrative offices utilizing administrative and information technology skills acquired in previous courses. Students will diagnose administrative office problems and develop strategies to solve these problems using case studies. Prerequisite: CS 101 or CS 102; OA 101, CG 101, CG 105, OA 102 and Co-Requisites: BU 212, OA 219. Lecture (45.00)

**HORTICULTURE**

**OH 106: Plant Materials (3.00 cr.)**

Emphasizes identification and characteristics of many of the native and cultivated plants used in landscape designs. Prerequisite: EN 060. Lecture (30.00) Lab (45.00)

**OH 130: Identification of Interior Plants (3.00 cr.)**

Acquaints the student with the identification of foliage and tropical plants. Students explore the usage of foliage plants in interior design layouts and become familiar with the maintenance requirements for successful growth of these plants. Prerequisite: EN 060. Lecture (45.00)

**OH 204: Greenhouse Management (4.00 cr.)**

This course covers all the aspects of the greenhouse business including construction, heating, cooling, and ventilating modern greenhouses. Students learn how to produce and culture plants in a temperature-controlled environment and examine variables like humidity, light and nutrients. The course includes the business side of greenhouse management, including hiring, supervising employees, monitoring production, producing marketing materials and controlling inventory. Prerequisite: EN 060. Lecture (45.00) Lab (45.00)

**PHILOSOPHY**

**PH 101: "H" Introduction to Philosophy (3.00 cr.)**

Offers a general introduction to the nature of philosophical thinking and an examination of philosophical problems arising from the issues of contemporary life with particular attention given to the ways by which the outstanding philosophers have dealt with the same problem. Prerequisite: EN 060. Lecture (45.00)

**PH 102: "H" Introduction to Ethics (3.00 cr)**

Offers a general intro to the study of ethics by exploring various moral theories and the ways in which those theories are justified. In addition, the student will examine some of the ethical problems confronting contemporary society. Prerequisite: EN 060. Lecture (45.00)

**POLITICAL SCIENCE****PS 201: "S" American Federal Government (3.00 cr.)**

A study of the basic principles of government at the national level: the Constitution, the structure and function of the various branches of government, political parties, interest groups, civil liberties, civil rights, and responsibilities of citizenship. Prerequisite: EN 060. Lecture (45.00)

**PS 203: "S" State and Local Government (3.00 cr.)**

The purpose of this course is to acquaint the student with the basic principles and functions of government at the state and local level with special attention to New Jersey's state, county, and local government structure and function. The course will examine Federalism, political parties and elections, and the three branches of government in the context of New Jersey politics. Students will be encouraged to develop a critical and analytical approach to political issues and public policy. Prerequisite: EN 060. Lecture (45.00)

**PSYCHOLOGY****PY 101: "S" General Psychology (3.00 cr.)**

An introduction to the study of behavior including the principles of learning, thinking, and perceiving; emotion, motivation and personality development; and the biological basis of behavior. Prerequisite: EN 060. Lecture (45.00)

**PY 102: "S" Child Psychology (3.00 cr.)**

A survey of the psychological and social development of the child with emphasis placed upon the formation of attitudes, group processes and structure, and the relationship of the developing individual to sociocultural systems. Prerequisite: PY 101. Lecture (45.00)

**PY 115: Child Development & Learning (3.00 cr.)**

An overview of child development from birth through age eight. Examines the work of major theorists and the relationship between development, learning, and educating young children. Prerequisite: EN 060. Lecture (45.00)

**PY 202: Understanding Addictive Behavior (3.00 cr.)**

This course inspects the causes, symptoms, and effects of addictive behavior. Students will examine the history, social and environmental contexts, and treatment of addictive behavior. Topics include classification and action of psychoactive drugs, the neurochemistry of chemical dependence and process/behavioral addictions, and their effects on the mental, physical, and spiritual domains of individuals and families. Prerequisite: PY 101. Lecture (45.00)

**PY 204: Psychology of Adolescence (3.00 cr.)**

This course is designed to increase student understanding of the psychology of adolescence and emerging adulthood, its methods, theories and research. The course will explore the psychological principles and phenomena associated with adolescence with a focus on a cultural approach. Psychological inquiry will be emphasized with the goal of increasing student perception of the world around us, insight into one's own and other's behavior and its origins, and an ongoing appreciation of the complexities of the human mind and behavior, with particular attention on the developmental issues and implications faced through adolescence. Prerequisite: PY 101.

**PY 205: Psychopharmacology (3.00 cr.)**

This course is an overview of pharmacology in relationship to addictions and their effect on the human body. Alcohol and drugs of abuse and addiction and how they affect behavior will be examined. Specific topics to be discussed include the classification of medications; legal and ethical principles regarding clinical drug trials and the FDA approval process; legalities of drug trafficking; acute and chronic effects; reversible and irreversible consequences functional disorders of the nervous system; neurobehavioral dysfunctions and other multi-sided aspects of addiction. A special emphasis will be placed on culture, ethnic and age related considerations. This course will provide an understanding of the role of pharmacology in the counseling field. Prerequisite: PY 202. Lecture (45.00)

**PY 207: "S" Human Growth & Development (3.00 cr.)**

A study of the major milestones in human development from infancy through the aging process as these stages are defined in our society. Prerequisite: PY 101. Lecture (45.00)

**PY 209: Abnormal Psychology (3.00 cr.)**

An examination of the nature, causes, classification, diagnosis, and treatment of abnormal behavior. Prerequisite: PY 101. Lecture (45.00)

**PY 213: Educational Psychology (3.00 cr.)**

The course applies the principles of psychology to the teaching and learning process. A variety of theories of development and pedagogical practices which influence the emotional intellectual, Physical and social advances that occur during childhood will be explored. This will be an interactive, student-centered, problem solving class with emphasis on investigative reading, discussion and relevant field and life experiences\* as both a teacher and a learner. Current issues in education such as student diversity, authentic assessment, the role of research, principles of behavior and cognition information processing lesson construction and motivational strategies will be carefully examined. \*Forty (40) hours of classroom observation is required. Prerequisite: PY 101 and ED 101. Lecture (45.00)

**PY 214: Human Exceptionality (3.00 cr.)**

This course explore human differences and the ways that individuals can differ substantially from the norm in terms of their physical, intellectual or behavioral performances. Prerequisite: PY 101. Lecture (45.00)

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

An examination of the relationships between government and business, and contemporary theories of leadership practices and principles. Prerequisite: EN 060. Lecture (45.00)

**PA 200: Public Budgeting & Grant Writing (3.00 cr.)**

This course provides an introduction to the fundamentals of various types of budgeting and grant writing techniques. Prerequisite: PA 101. Lecture (45.00)

**PA 219: Planning and Administration of Municipal Services (3.00 cr.)**

This course analyzes the evolution of the local government system including the differences between city, township and municipalities. Students will examine the organization of municipal government, with its council, committees and staff, and the associated issues with particular attention to those that are paid versus elected. Prerequisite: PA 101. Lecture (45.00)

**PA 220: Rural and Urban Community Development (3.00 cr.)**

This course provides the student with an overview of community-based development principles and concepts. Local economy and economic development and role of local government in the local economy will be analyzed. Prerequisite: PA 101. Lecture (45.00)

**PA 221: Leadership in Public Administration (3.00 cr.)**

This course provides the student with an overview of what constitutes a leadership vision and how to construct one. Students learn how to frame and define a problem; and evaluate Organization, Leadership and Motivational Theories. Prerequisite: PA 101. Lecture (45.00)

**PA 222: Public Administration Capstone Experience (3.00 cr.)**

This course provides the student with the opportunity to create a solution to a current public problem. Students will identify and evaluate the impact of their proposed solution on societal, group and individual values; reflect on barriers that will hinder acceptance of their solution; upon completion of their project, students will present their project to the appropriate audience. Prerequisite: PA 101; PA 219; PA 220; PA 221. Lecture (45.00)

**PUBLIC RELATIONS****PR 105: Introduction to Public Relations (3.00 cr)**

Students will learn that public relations is the values-driven and strategic management of relationships with groups of people that can influence an organization's success. The course examines how organizations can ethically and systematically build productive, mutually beneficial relationships with such groups. Prerequisite: CO 101. Lecture (45.00)

**PR 106: Special Events Planning & Management (3.00 cr)**

The purpose of this course is for students to acquire an in-depth knowledge about the specialized field of "event management" and to become familiar with management techniques and strategies required for successful planning, promotion, implementation, and evaluation of special events. Prerequisite: PR 105. Lecture (45.00)

**RADIOGRAPHY**

**RT 100: Radiography Theory & Clinical Remediation (2.00 cr)**

Provides individualized classroom and laboratory instruction. The course is available to students who have been unable to successfully complete Radiography Program course Co-Requisites. Lecture (15.00) Lab (45.00)

**RT 101: Introduction to Radiologic Science (3.00 cr)**

Students are oriented to the organization of hospitals and are introduced to the role of the radiographer within the organizational structure. The course includes an introduction to medical terminology, film processing, professional ethics, legal responsibilities and radiography professionalism. Prerequisite: Acceptance into the Radiography Program. Lecture (30.00) Lab (45.00)

**RT 102: Radiographic Procedures (3.00 cr)**

Using lectures and audiovisuals, basic radiographic positioning, anatomy, and terminology used for procedures of the chest, abdomen, and extremities are presented. Laboratory sessions are used for demonstration and for student participation in the simulation of procedures. Prerequisite: Acceptance into the Radiography Program. Lecture (30.00) Lab (45.00)

**RT 103: Clinical Practicum & Film Evaluation I (2.00 cr)**

Students are assigned to the Radiology Department of a clinical education center for practical application of the information presented in the co-requisite courses. Prerequisite: Acceptance into the Radiography Program. Clinical (240.00)

**RT 104: Radiographic Exposure I (2.00 cr)**

Introduces the student radiographer to the principles of x-ray production and the evolution of medical imaging. Emphasis will be placed on the primary factors needed to produce a radiograph and their effect on image quality. Prerequisite: Acceptance into the Radiography Program. Lecture (30.00)

**RT 106: Radiographic Exposure II (2.00 cr)**

This course will concentrate on the equipment in use within a Radiology Department and its relationship to the photographic and geometric properties of an image. Prerequisite: RT 101, RT 102, RT 103, RT 104, BI 106. Lecture (30.00)

**RT 107: Radiographic Procedures II (3.00 cr)**

Basic radiographic positioning, anatomy, and terminology used for procedures of the vertebral column, bony thorax, urinary and digestive system are presented. This course also focuses on contrast media and its use in radiography of the body systems. Prerequisite: RT 101, RT 102, RT 103, RT 104, BI 106. Lecture (30.00) Lab (45.00)

**RT 110: Clinical Practicum & Film Evaluation II (2.00 cr)**

Students are assigned to the Radiology department of a clinical education center for practical application of the information presented in the co-requisite courses. The goal of RT 110 is to actively participate in the radiography of all procedures for which the student has successfully completed a simulated laboratory competency and to establish competency within the clinical situation for a cumulative minimum of 10 procedures. Prerequisite: RT 101, RT 102, RT 103, RT 104, BI 106. Clinical (240.00)

**RT 111: Clinical Practicum & Film Evaluation III (2.00 cr)**

Students are assigned to the Radiology Department of a clinical education center for practical application of the information presented in the prerequisite courses. The goal of Clinical Practicum 111 is to actively participate in the radiography of all procedures for which the student has successfully completed a simulated laboratory competency and to establish competency within the clinical situation for a cumulative minimum of 17 procedures. Students will be assigned to one-week room rotations in general, fluoro, O.R. & portables. Prerequisite: RT 106, RT 107, RT 110, RT 121, BI 107. Clinical (240.00)

**RT 121: Radiation Protection & Biology (3.00 cr)**

This course provides an overview of the principles of the interaction of Radiation with living systems. Factors affecting biological response are discussed as well as the responsibilities of the radiographer for patient, personnel and public safety. Radiation Health and safety requirements are incorporated. Upon completion of the course, the student will understand the concept of and demonstrate the ALARA principle in clinical activity. Prerequisite: RT 101, RT 102, RT 103, RT 104, BI 106. Lecture (45.00)

**RT 200: Clinical Practicum & Image Evaluation IV (3.00 cr)**

Students are assigned to the Radiology Department of a clinical education center for practical experience. Prerequisite: RT 106, RT 107, RT 110, RT 111, RT 121, BI 107. Clinical (360.00)

**RT 201: Radiographic Procedures III (3.00 cr)**

The course content will focus on the projections and positioning used for radiography of the cranium. Laboratory sessions are designed to demonstrate the basic positions and technical factors for procedures as they are described in lectures and audiovisuals. Prerequisite: RT 106, RT 107, RT 110, RT 111, RT 121, BI 107. Lecture (37.50) Lab (37.50)

**RT 202: Clinical Practicum & Film Evaluation V (3.00 cr)**

Students are assigned to the Radiology Department of a clinical education center for practical experience. Prerequisite: RT 106, RT 107, RT 110, RT 111, RT 121, BI 107. Clinical (360.00)

**RT 205: Radiographic Procedures IV (3.00 cr)**

Using lecture, radiographs, and audiovisuals, the basic procedures and equipment used for pediatric patients, mammography, vascular, and neurological imaging are presented. Students are introduced to the imaging and therapeutic modalities of computerized tomography, nuclear medicine, ultrasound, radiation therapy, and magnetic resonance. Prerequisite: RT 201, RT 202, RT 220. Lecture (45.00)

**RT 206: Clinical Practicum & Film Evaluation VI (3.00 cr)**

Students are assigned to the Radiology Department of a clinical education center for practical application of the information presented in the prerequisite and co-requisite courses. Students will observe and assist in angiographic and interventional procedures under direct supervision of a qualified radiographer. Prerequisite: RT 201, RT 202, RT 220. Clinical (360.00)

**RT 220: Equipment Operation & Maintenance I (2.00 cr)**

This course will provide the student with a review of atomic structure and an understanding of electricity as it applies to radiographic equipment and the production of x-rays. The interactions between x-ray and matter and the relationship between x-radiation, the patient and image formation will be stressed. Upon successful completion of this course, the student will be able to discuss the production of x-rays and determine techniques available to reduce radiation exposure and enhance image formation. Prerequisite: RT 106, RT 107, RT 110, RT 111, RT 121, BI 107. Lecture (30.00)

**RT 221: Equipment Operation & Maintenance II (2.00 cr)**

The content of this course is designed to establish a knowledge base in Radiographic, Fluoroscopic, Mobile, Tomographic and Electronic imaging equipment. The content will also provide a basic knowledge of Quality Control. Upon completion, the student will be able to understand the difference in performance and testing of imaging equipment. Prerequisite: RT 201, RT 202, RT 220. Lecture (30.00)

**REAL ESTATE**

**RE 101: Real Estate Salesperson (5.00 cr)**

Designed to provide the student with the necessary information to sit for the New Jersey Real Estate Salesperson licensure exam. Topics include property rights, contracts, leases, deeds and title transfer, mortgages, settlement procedures, appraising, and administrative regulations. This course will satisfy the state requirements for coursework in real estate. Prerequisite: High school diploma or equivalent and no past criminal history. These are requirements by the State of New Jersey. Lecture (75.00)

## RELIGION

### RL 101: "H" Perspectives on Religion (3.00 cr.)

This course explains the functions of religion and describes the fundamental nature of diverse religious systems. Specific topics considered include sacredness, symbolization, myth, evil and salvation. Prerequisite: EN 101. Lecture (45.00)

### RL 102: "H/D" World Religions (3.00 cr.)

This course presents an introduction to the major religions of the world. Utilizing both a descriptive and interpretative approach, the origin and historical development of each religion is examined with attention given to the beliefs, and practices and social structures. The survey includes Hinduism, Buddhism, Daoism, Confucianism, Judaism, Christianity and Islam. Prerequisite: EN 101. Lecture (45.00)

### RL 103: "H/D" Introduction to Asian Religions (3.00 cr.)

This course presents an introduction to the major Asian religious, philosophical, and cultural traditions with emphasis on the cultural roots of each religious tradition, the analysis of its principal teachings and practices, and the major cultural expressions. The survey includes Hinduism, Buddhism, Confucianism, Daoism and Shinto. Prerequisite: EN 101. Lecture (45.00)

## SCIENCE

### BI 101: "B" General Biology I (4.00 cr.)

An integrated course with laboratory exercises closely correlated to the lectures dealing with atomic basis of life and biomolecules; cell structure and function; cell metabolism; movement of materials across the membranes; photosynthesis, fermentation and respiration; cell division; Mendelian genetics; molecular basis of genetics; control of gene expression. Prerequisite: EN 060, MA 091. Lecture (45.00) Lab (45.00)

### BI 102: "B" General Biology II (4.00 cr.)

An integrated course with laboratory exercises closely correlated to the lectures dealing with natural selection, evolution and plants and animals. Prerequisite: BI 101. Lecture (45.00) Lab (45.00)

### BI 108: "B" Human Biology (4.00 cr.)

Human Biology Introduces students to the anatomy and physiology of the human body. The course provides a basic overview of the normal structure and function of body systems and their interrelations. In the laboratory sessions, students will gain hands-on experience in human anatomy and physiology. Laboratory sessions will provide students with a basic overview of the normal structure and function of the body systems. This course is not intended for science majors. The course will not serve as a prerequisite for Anatomy and Physiology and is not a substitute for Anatomy and Physiology. Prerequisite: EN 060. Lecture (45.00) Lab (45.00)

### BI 106: "B" Anatomy & Physiology I (4.00 cr.)

An integrated course with laboratory exercises closely correlated to lectures dealing with topics such as the concepts of homeostasis, and the chemical level, cellular level, and tissue level of the body, as well as

the skeletal system, muscular system and nervous system of the body.

Prerequisite: EN 060, MA 094 and one of the following: BI 101, 102 or CH 101. Students who have successfully completed College Preparatory, Honors or Advanced Placement Biology or Chemistry in high school with a grade of "C" or better (as documented on an official high school transcript) and are within three years of high school graduation when attempting to register for BI 106 Anatomy and Physiology I may request to waive the prerequisite for BI 106. Lecture (45.00) Lab (45.00)

### BI 107: "B" Anatomy & Physiology II (4.00 cr.)

An integrated course with laboratory exercises closely correlated to lectures dealing with the endocrine system, cardiovascular system, lymphatic system, respiratory system, digestive system, reproductive system, and urinary system. Prerequisite: BI 106. Lecture (45.00) Lab (45.00)

### BI 117: "B" Introduction to Biology (3.00 cr.)

Offers the non-science major to selected topics in chemistry, cells, genetics, evolution and diversity and ecology. Among the topics discussed will be the role of chemistry in biology; cellular functions; the role of DNA and genes in patterns of inheritance; the evolution and diversity of plants, fungi and animals; and communities and ecosystems. Prerequisite: EN 060, MA 091. Lecture (45.00) Lab (45.00)

### BI 122: "B" Environmental Science (4.00 cr.)

An integrated course with laboratory exercises closely correlated to the lectures dealing with the fundamental concepts of environmental science. Topics discussed include biogeochemical cycles, energy cycles and the effects of chemical and radioactive substances on the air, water and land masses of the earth. Laboratory activities will focus on quantification and assessment of environmental parameters in local aquatic and terrestrial ecosystems. Prerequisite: EN 060, MA 094. Lecture (45.00) Lab (45.00)

### BI 201: Genetics (4.00 cr.)

Offers a study of the principles of transmission and molecular genetics, with emphasis on human genetics. Prerequisite: MA 094 and BI 101 or CH 101. Lecture (45.00) Lab (45.00)

### BI 203: "B" Microbiology (4.00 cr.)

An integrated course with laboratory exercises closely correlated to the lectures covering the characteristics of microorganisms in nature and disease. Standard laboratory techniques in pure culture study, disinfection, and sterilization will be utilized. Prerequisite: BI 101 or BI 106 or CH 101. Lecture (45.00) Lab (45.00)

### BI 208: Introduction to Infectious Disease (3.00 cr.)

This introductory course will include a discussion of the bacteria, parasites, viruses and other agents causing infectious diseases; the role of the health professional in infectious disease control; a study of the incidence, distribution, and control of disease in populations and the emergence and reemergence of infectious diseases. Prerequisite: MA 094, EN 060. Lecture (45.00)

### BI 210: Basic Pathology-Mechanics of Disease (3.00 cr.)

Focuses on the molecular, cellular and tissue alterations which contribute to disease processes. Students will become familiar with the processes involved in cell injury and repair, inflammation and healing. Tumor behavior, hemodynamic derangements and disorders of selected organ systems will be discussed. Prerequisite: BI 107. Lecture (45.00)

### BI 215: Ecology (4.00 cr.)

An integrated course with laboratory exercises closely correlated to the lectures dealing with the relationships between organisms and their environments. Population dynamics, nutrient cycling, community and ecosystem structure, evolution, natural selection, and current environmental issues will be covered. Prerequisite: BI 101 or BI 122. Lecture (45.00) Lab (45.00)

### BI 216: Biomechanics (3.00 cr.)

The objective of this course is to introduce students to concepts of mechanics as they apply to human movement, particularly those pertaining to exercise and sport. A qualitative approach will be used to analyze the anatomical and mechanical principles that apply to the body involved in physical activity. Prerequisite: BI 106. Lecture (45.00)

### CH 101: "B" General Chemistry I (4.00 cr.)

Offers fundamental principles of chemistry, including the mole concept and stoichiometry, nomenclature, atomic and molecular structure, periodicity, chemical bonding, states of matter, kinetic theory, and solution theory. The laboratory offers experiments in qualitative and quantitative analysis and synthesis. Prerequisite: EN 060, MA 094. Lecture (45.00) Lab (45.00)

### CH 102: "B" General Chemistry II (4.00 cr.)

A continuation of 101 with emphasis on thermochemistry and thermodynamics, chemical equilibrium, acid/base theory, electrochemistry, kinetics, and organic chemistry. The laboratory offers experiments illustrative of the above topics. Prerequisite: CH 101. Lecture (45.00) Lab (45.00)

### CH 201: Organic Chemistry I (4.00 cr.)

Offers fundamental principles of organic chemistry including the reactions, structure, properties, nomenclature and stereochemistry of the alkanes, alkylhalides, alkenes, alkynes, alcohols, and ethers. The laboratory offers practice in the synthesis, analysis, separation and purification of organic compounds as well as the use to the college's NMR and FT-IR spectrometers. Prerequisite: CH 102. Lecture (45.00) Lab (45.00)

### CH 202: Organic Chemistry II (4.00 cr.)

A continuation of Chemistry 201 with emphasis on the aromatics, aldehydes, ketones, esters, carboxylic acids, and amines. The laboratory will include experiments illustrative of the above topics along with continued NMR and IR work using the college's instruments. Prerequisite: CH 201. Lecture (45.00) Lab (45.00)

### GL 101: "B" Physical Geology (4.00 cr.)

Covers the nature and origin of the land and water features of the earth, including studies available

concerning the oceans and their floors, with a view to providing an understanding of why our land looks as it does and the conflicts between natural change and man's use of the land and seas. Field trips may be a part of this course. Prerequisite: EN 060, MA 091. Lecture (45.00) Lab (45.00)

**GL 102: "B" Historical Geology (4.00 cr.)**

Covers the prehistoric development of the earth and living things, examines the relationships between land and sea positions and the subsequent development of life forms using physical geology concepts and the study of fossil forms, of plants and animals. Field trips may be a part of this course. Prerequisite: EN 060, MA 091. Lecture (45.00) Lab (45.00)

**PI 104: Energy, the Environment & Society (3.00 cr.)**

This course provides an overview of the ways modern society utilizes and converts energy in its quest for technological and economic advancement. The course covers important topics such as energy (fundamental units, concepts, history of development and current problems) and its impact on the global environment. An overview of the current unsustainable (coal, oil, natural gas, nuclear) as well as sustainable technologies (solar, wind, wave, biomass, geothermal, tidal, hydropower) is provided. In addition, the student is made aware of the important role energy conversion and utilization by industrialized and industrializing countries presently plays in global climate change. The course forms the foundation for student knowledge of energy and its relationship to economic prosperity. Lecture (45.00)

**PI 110: "B" Principles of Science I (3.00 cr.)**

Introduces the non-science major to selected topics in geology, astronomy, physics and chemistry. Among the topics discussed will be atoms, molecules, chemical change, the solar system, the planet earth, igneous rocks, sedimentary rocks and metamorphic rocks. Prerequisite: EN 060, MA 091. Lecture (45.00) Lab (45.00)

**PI 110(L): "B" Principles of Science I Lab (1.00 cr.)**

Principles of Science Laboratory supports PI 106, the 3 credit lecture section of Principles of Science. The laboratory section will provide experiments in selected topics in geology, astronomy, physics and chemistry to support the lecture section. Prerequisite or Co-Requsite: PI 106. Lab (45.00)

**PI 115: "B" Astronomy (4.00 cr.)**

An introductory course in astronomy for non-science majors. The basic concepts in astronomy will be presented with emphasis on the solar system. Universal law of gravitation will be discussed as it pertains to the formation and evolution of stars and other astronomical structures. Asteroids, Comets, pulsars, Neutron Stars, and black holes are among the topics of discussion. Students will be exposed to some basic techniques used to gather and analyze experimental astronomical data. Activities will include measurement of angular position of Polaris and change in angle of ecliptic, and observation and interpretation of the phases of the moon. Prerequisite: MA 091. Lecture (45.00) Lab (30.00)

**PI 123: "B" Fundamentals of Physics I (4.00 cr.)**

This course is an algebra based physics course with lab. Fundamentals of Physics provides exposure to the laws of mechanics, heat, thermodynamics, waves and oscillation. The course, in addition to PI-124, satisfies physics requirements for many disciplines in science including but not limited to pre-medicine and physical therapy. Prerequisite: MA 094. Lecture (45.00) Lab (45.00)

**PI 124: "B" Fundamentals of Physics II (4.00 cr.)**

This is an algebra based Physics course. Fundamentals of Physics II provides the students exposure to the laws of electricity, magnetism, geometrical and wave optics, power generation and consumption as well as electrostatics. The course, in addition to PI-123, satisfies the physics requirements for many disciplines in science including but not limited to pre-medicine, physical therapy and biomedical research. PI 123 does not have to be taken before this course. Prerequisite: MA 094. Lecture (45.00) Lab (45.00)

**PI 141: "B" General Physics I (4.00 cr.)**

This course provides exposure to the physical laws of nature necessary to further specialize in any field of science, engineering or technology. Calculus based, the course covers the general areas of mechanics, wave motions, sound and heat. Prerequisite: MA 130. Lecture (45.00) Lab (45.00)

**PI 142: "B" General Physics II (4.00 cr.)**

A continuation of General Physics I, this calculus based course includes the study of the following areas: Thermodynamics, light and optics, electricity and magnetism. Prerequisite: PI 141. Lecture (45.00) Lab (45.00)

## SOCIOLOGY

**CA 101: Introduction to Child Advocacy (3.00 cr)**

This course provides the students with information and insight into the following: Various attitudes and perspectives about children, their needs and rights, as well as their places in the family and in society; the nature and structure of advocacy in general and for children in particular; the areas in which concerns about children play out, including education, medical care, the judicial system, the social service and foster care systems. Prerequisite: EN 060. Lecture (45.00)

**CA 102: The Ecological Systems and the Developing Child (3.00 cr)**

This course will provide the students with an understanding of major issues in the normal development from infancy through adolescence, with a particular focus on areas that are most germane to current child advocacy efforts in child protection, juvenile justice, and custody determination. Lecture (45.00)

**CA 103: Cultural Competencies in Child Welfare (3.00 cr)**

This course will identify the three components of cultural competency that will have been identified in the child welfare field: value base, knowledge, and skills. This course will focus on enabling students to examine the values that are necessary for a culturally competent understanding and response to child

welfare, specifically accepting the existence of biases and developing a commitment to a strength-based model that relies on respect and working towards empowerment as a goal for intervention. Culture is defined broadly and the course will expose students to a range of belief systems common in different groups concerning child rearing and child maltreatment. Lecture (45.00)

**CA 104: Children and Justice (3.00 cr)**

This course will provide students with an understanding of how law relates to child welfare(45.00)

**CA 105: Child Advocacy Fieldwork (3.00 cr)**

This course will provide the students with an understanding of child advocacy in practice. Students are assigned to various local social service agencies. A pre-assigned person at the local agency directs and monitors the student's activities. 90 hours of field work are required Prerequisite: CA 101 Lecture (45.00)

**SO 201: "S" Introductory Sociology (3.00 cr)**

An introduction to the study of society, including social groups, social institutions, and social change. Prerequisite: EN 060. Lecture (45.00)

**SO 202: Contemporary Social Problems (3.00 cr)**

The identification and analysis of major societal problems such as population growth and urbanization, crime and delinquency, and social conflict. Prerequisite: SO 201. Lecture (45.00)

**SO 207: "D" Social Minorities & Intergroup Relations (3.00 cr)**

A study of prejudice, discrimination, and the relations between and within different cultural and racial groups in the United States. Prerequisite: SO 201. Lecture (45.00)

**SO 212: Social Psychological Counseling Techniques (3.00 cr)**

This course is designed to introduce students to techniques as well as methods of recording commonly used in agency practice. In addition, an overview of normal and abnormal growth and development will be stressed with practical application from clients in field experiences case materials drawn from the Council of Social Work Education materials, including case work, group work, and community organization methods. Prerequisite: SO 201. Lecture (45.00)

**SO 215: Death & Dying (3.00 cr)**

A sociological and psychological exploration of issues surrounding death and bereavement such as grief, funerals, euthanasia, suicide and the dying patient. Prerequisite: SO 201. Lecture (45.00)

**SO 216: Sociology of the Family (3.00 cr)**

An examination of the family as a social institution in U.S. society. Topics include the family's historical development and changing structure, child rearing practices, and marriage and divorce. Prerequisite: SO 201. Lecture (45.00)

**SO 217: Human Behavior in the Social Environment I (3.00 cr)**

An introduction to biological and social science concepts of human development and social functioning necessary for the practice of social work. Prerequisite: SO 201. Lecture (45.00)

**SO 219: Human Behavior in the Social Environment II** (3.00 cr)  
An examination of the manner in which macro systems in the social environment affect human behavior, with a focus on populations at risk and community empowerment. Prerequisite: SO 217. Lecture (45.00)

**SO 220: Introduction to Social Work & Social Welfare** (3.00 cr)  
An introduction to the social work profession and social welfare system. The student will explore the social welfare system, past and present, to understand the social worker's role and function. Prerequisite: SO 201 and SO 217. Lecture (45.00)

**SO 221: Social Service Field Work I** (3.00 cr)  
Field Work I is designed to give the student a veridical understanding of social work practice. Students are assigned to various local social service agencies\*. \*90 hours of field experience is required. Prerequisite: SO 201, SO202. Fieldwork (90.00)

**SO 222: Social Service Field Work II** (3.00 cr)  
Field Work II is a continuation of Field Work I and is designed to build upon the skills learned from Field Work I. Students will complete their Portfolio that began in Field Work I as a capstone project. Students are assigned to various local social service agencies\*. \*90 hours of field work experience required. Prerequisite: SO 221. Fieldwork (90.00)

**SO 223: Alcohol & Drug Field Work** (3.00 cr)  
Fieldwork I is designed to give the student a veridical understanding of alcohol and drug practice. Students volunteer at various local drug and alcohol agencies\*. The focus is on addiction as a disease as well as environmental contributions to the addiction. The effects on the individual and family will be covered in addition to other support systems for those affected by addictions. A LCADC (License Certified Alcohol and Drug Counselor) at the agency directs and monitors the students' activities 90 hours during the semester. \*90 hours of field experience required. Prerequisite: SO 201, PY 202, PY 205. Fieldwork (90.00)

## SPEECH

**SP 203: "C" Effective Speech** (3.00 cr.)  
This course covers the organization and oral presentation of ideas, along with voice control and personal poise. Stress is given to eye contact and the ability to prepare and deliver brief speeches for special occasions when preparation time is limited. Prerequisite: EN 101. Lecture (45.00)

## THEATRE

**TH 101: "H" Theatre Appreciation** (3.00 cr.)  
This course is designed to introduce the student to the origin, history, and various styles of dramatic art, including different cultural types of theatre. Stress is given to a greater appreciation for theatre production when all the elements involved are presented in detail. Prerequisite: EN 050. Lecture (45.00)

**TH 104: Voice For The Actor I** (3.00 cr.)  
This course focuses on the techniques of effective voice and speech production and development of the student's vocal technique and awareness of the vocal process through exercises in relaxation, body alignment, and support of tone and placement of sound. Emphasis on freeing the vocal apparatus of tension, extending pitch range and developing greater responsiveness to language values will be explored throughout this course. Lecture (30.00) Studio (30.00)

**TH 105: Movement For The Actor I** (3.00 cr.)  
A basic movement course designed to illustrate and show the beginning techniques, styles and study of movement for the stage performer, in particular the actor and vocalist. This course is also recommended for directors and choreographers who desire an extended study in acquiring techniques for working with the stage performer. Lecture (30.00) Studio (30.00)

**TH 111: Production & Performance I** (1.00 cr.)  
This course is a practical application of materials studied in a variety of theatre classes and provides a hands on experience in all facets of theatrical production. Students receive academic credit through TH 111 for performance, technical production, and arts management work on Theatre Mainstage and Acting Class productions i.e., scene night, and other activities as designated by the Department of Theatre faculty and staff. TH 111 may be repeated to a maximum of 4 credit hours. Theatre majors only. Practicum (45.00)

**TH 120: Acting I** (3.00 cr.)  
This class outlines and demonstrates the foundation and technique of an actor. The perspective of interpretation and analysis of exploring scene analysis, character analysis and role scoring is dissected throughout the semester to illustrate audition techniques and creating roles with skill and confidence. Students will make use of theatre games and exercises as building blocks to monologues and scene work. Students will discuss with the people who design, direct and write for theatre. Lecture (30.00) Studio (30.00)

**TH 123: Directing** (3.00 cr.)  
This course is designed to illustrate directing techniques. Structured in a workshop format, the intent of the Directing I class is to examine the principles, procedures, and practices of stage direction. Beginning with a nonverbal approach to composition and movement study, and progressing to more formal text work, the various exercises culminate in the direction of a five to ten minute play for public performance. Lecture (30.00) Studio (30.00)

**TH 128: Acting for Television** (3.00 cr.)  
This course offers instruction and practice in the basics of acting for the camera and will assist students in making the transition from the theatre to the screen. It will introduce students to on-camera performance in various genres and will address the technical requirements of TV and Film acting such as playing to the camera, shooting out-of-sequence, blocking and commercial placement. The course includes on camera work, character development, audition techniques, commercial techniques and script analysis Lecture

(30.00) Studio (30.00)

**TH 150: Stagecraft** (3.00 cr.)  
This course is designed to introduce the student to the technical aspects of theatre production. The course will explore traditional and modern scenic construction techniques, as well as hands on use of basic woodworking, lighting, and audio equipment. Classes consist of lectures and lab demonstrations. Prerequisite: Permission of Director required. Lecture (30.00) Studio (30.00)

**TH 170: Fundamentals of Stage Lighting** (3.00 cr.)  
A basic course that introduces students to the qualities and properties of light and how light is used in a theatrical setting. Hands on work includes simple design and hanging techniques as well as the use of colors and patterns. Lecture (30.00) Studio (30.00)

**TH 201: "H" Theatre History** (3.00 cr.)  
This course is designed to compare and contrast an understanding and familiarity with the theories and practices of theatre from its origins to the 1700s with its primary emphasis in the European tradition. Lecture (45.00)

**TH 204: Singing For The Actor I** (3.00 cr.)  
This class is for the student who is interested in learning the art of vocal performance. It is strongly recommended for those interested in musical theater or performance. Class instruction focuses on the fundamentals of correct breathing, tone production and diction. This course demonstrates singing/ acting techniques through practical application and repertoire study. Students will interpret material to bring a song to performance level. Prerequisite: Permission of Director required. Lecture (30.00) Studio (30.00)

**TH 205: Movement For The Actor II** (3.00 cr.)  
A basic movement course designed to illustrate and show the beginning techniques, styles and study of movement for the stage performer, in particular the actor and vocalist. This course is also recommended for directors and choreographers who desire an extended study in acquiring techniques for working with the stage performer. Prerequisite: TH 105. Lecture (30.00) Studio (30.00)

**TH 206: Theatre Dance** (3.00 cr.)  
A basic movement course designed to introduce and explore the beginning techniques, styles and study of movement for the stage performer, in particular the actor and vocalist. This course is also recommended for directors and choreographers who desire supplementary study in acquiring techniques for working with the stage performer. This course will also incorporate a study in the various dance forms that make up musical theater. Prerequisite: Permission of Director required. Lecture (30.00) Studio (30.00)

**TH 207: Stage Makeup** (3.00 cr.)  
Students classify the basic principles and skills of theatrical make-up design and application. This course provides an introduction to research, design, and execution of makeup, including materials, application of straight, character, age and special effects makeup. Lecture (30.00) Studio (30.00)

**TH 208: Children's Theatre (3.00 cr.)**

This course is an introduction to the basic principles and techniques of producing theatre for young audiences. Emphasis is given to script evaluation and development, as well as the challenges associated with acting and directing for young audiences and working with child performers. Lecture (30.00) Studio (30.00)

**TH 209: Singing For The Actor II (3.00 cr.)**

This course is a continuation of vocal and performance techniques required to meet the demands of singing for the theatre. A practical course, students will work on musicality through sight singing, singing harmonies, breathing techniques as well as learning how to analyze a song as dramatic form and "sell it" in audition or performance. Students will leave class prepared with three audition pieces for musical theatre. Students will interpret assigned material, determining a process to bring a song to performance level, and illustrate the musical theatre canon through sight-singing, work-shops, and performing. Prerequisite: TH 204 and permission of the Director. Lecture (30.00) Studio (30.00)

**TH 212: Production & Performance II (1.00 cr.)**

This course is a practical application of materials studied in a variety of theatre classes and provides a hands on experience in all facets of theatrical production. Students receive academic credit through TH 212 for performance, technical production, and arts management work on Theatre Mainstage and Acting Class productions i.e., scene night, and other activities as designated by the Department of Theatre faculty and staff. Prerequisite: TH 111. Practicum (45.00)

**TH 213: Production & Performance III (1.00 cr.)**

This course is a practical application of materials studied in a variety of theatre classes and provides a hands on experience in all facets of theatrical production. Students receive academic credit through TH 213 for performance, technical production, and arts management work on Theatre Mainstage and Acting Class productions i.e., scene night, and other activities as designated by the Department of Theatre faculty and staff. Prerequisite: TH 212. Practicum (45.00)

**TH 214: Production & Performance IV (1.00 cr.)**

This course is a practical application of materials studied in a variety of theatre classes and provides a hands on experience in all facets of theatrical production. Students receive academic credit through TH 214 for performance, technical production, and arts management work on Theatre Mainstage and Acting Class productions i.e., scene night, and other activities as designated by the Department of Theatre faculty and staff. Prerequisite: TH 213. Practicum (45.00)

**TH 220: Acting II (3.00 cr.)**

Acting II focuses on the continuation and practice of acting with an emphasis on practical experience in problems of creating characterization and scene preparation through textual analysis. Vocal and physical skills are further developed through a performance driven course of study where students are exposed to a range of techniques and styles explicated by primary acting theorist/practitioners. Prerequisite: TH 120. Lecture (30.00) Studio (30.00)

**TH 221: Acting III (3.00 cr.)**

Acting III is a continuation and extension of first-year work, with particular emphasis on characterization, text analysis, and advanced scene study. Acting techniques are applied to more complex dramatic forms, including genres in which language and characterization are particularly demanding. Theatre periods and style skills are developed which may include some or all of the following: Greek, Restoration and 19th Century playwrights. Prerequisite: TH 220. Lecture (30.00) Studio (30.00)

**TH 222: Acting IV (3.00 cr.)**

Acting IV is a continuation and extension of the work in Acting III, with particular emphasis on characterization, text analysis, and techniques of various stylistic demands. Development of theatre periods and style continue to be explored to include Ionesco, Beckett and Theatre of The Absurd. Career development is also discussed. Prerequisite: TH 22. Lecture (30.00) Studio (30.00)

**TH 230: Readers Theatre (3.00 cr.)**

Students will combine acting, interpretation and rhetoric as they analyze and perform poetry, prose and dramatic literature and present public performances. Through the process of reading, studying, investing, rehearsing and performing literary and non literary works, the student will learn to pay particular attention to the voice embodied in a given text and the cultural and social context within which that voice speaks. 3 hrs./wk. plus rehearsals. This course is typically taught in the spring semester. Lecture (30.00) Studio (30.00)

**TH 250: Advanced Independent Study Projects (3.00 cr.)**

Students, in consultation with a faculty advisor, individually design and plan a course of study or research. Course work includes a reflective component, evaluation, and completion of an agreed-upon product. Syllabus and credit hours will be determined and contracted by the student with the Director of Theatre. Prerequisite: Permission of Director required. Lecture (45.00)

# Campus Buildings

## 1. Administration Building

- Alumni/Foundation
- Board Room
- Communications & Marketing
- Finance & Administrative Services
- Human Resources
- Planning, Research & Institutional Effectiveness
- President
- Vice President, Academic & Student Services

## 2. Academic Building

- Classrooms
- Business, Education, Social Sciences and Technology Division
- GED/ESL
- Mathematics Offices
- STEM/Health Division
- Wellness Center

## 3. Computer Classroom, Labs

- Computer Labs 1-4

## 4. Academic Support Labs

- ASLM (Math)

## 5. Luciano Conference Center

- Banquet Room
- Conference Center Offices
- Executive Board Room
- Forum Room
- Meeting Rooms

## 6. Guaracini Arts Center

- Art Gallery
- Box Office
- Classrooms
- Arts, Humanities & Developmental Studies Division
- Luciano Theatre
- S1-S3 Music Studio

## 7. University Center

- Classrooms
- Executive Director, University Center
- University Partners' Offices

## 8. Library

- Group Rooms
- Holocaust Collection
- Information Commons
- Technology Training Center

## 9. Network Operations Center

## 10. Student & Enrollment Services Center - Information

- Admissions & Registration
- Advisement, Transfer & Career Services
- Bookstore
- Bursar
- Center for Academic & Student Success (CASS)
- Cumberland Café
- Educational Opportunity Fund (EOF)
- Financial Aid
- Got Food? (Food Pantry)
- Information Center
- Information Desk
- Safety & Security
- Student Activities
- Student Senate
- Student Support Services

## 11. Dr. Charles Cunningham Building

- Athletic Office
- Fitness Center
- Gymnasium
- Locker Rooms

## 12. Navone Healthcare

- Computer Lab
- Education Center
- Healthcare Offices
- Nursing Offices
- Radiography Offices
- Simulation Labs
- Wheaton Building

## 13. Alampi Science Building

- Agriculture
- CAD & Engineering
- Horticulture
- Science Laboratories
- Science Offices

## 14. Central Plant -Shipping & Receiving

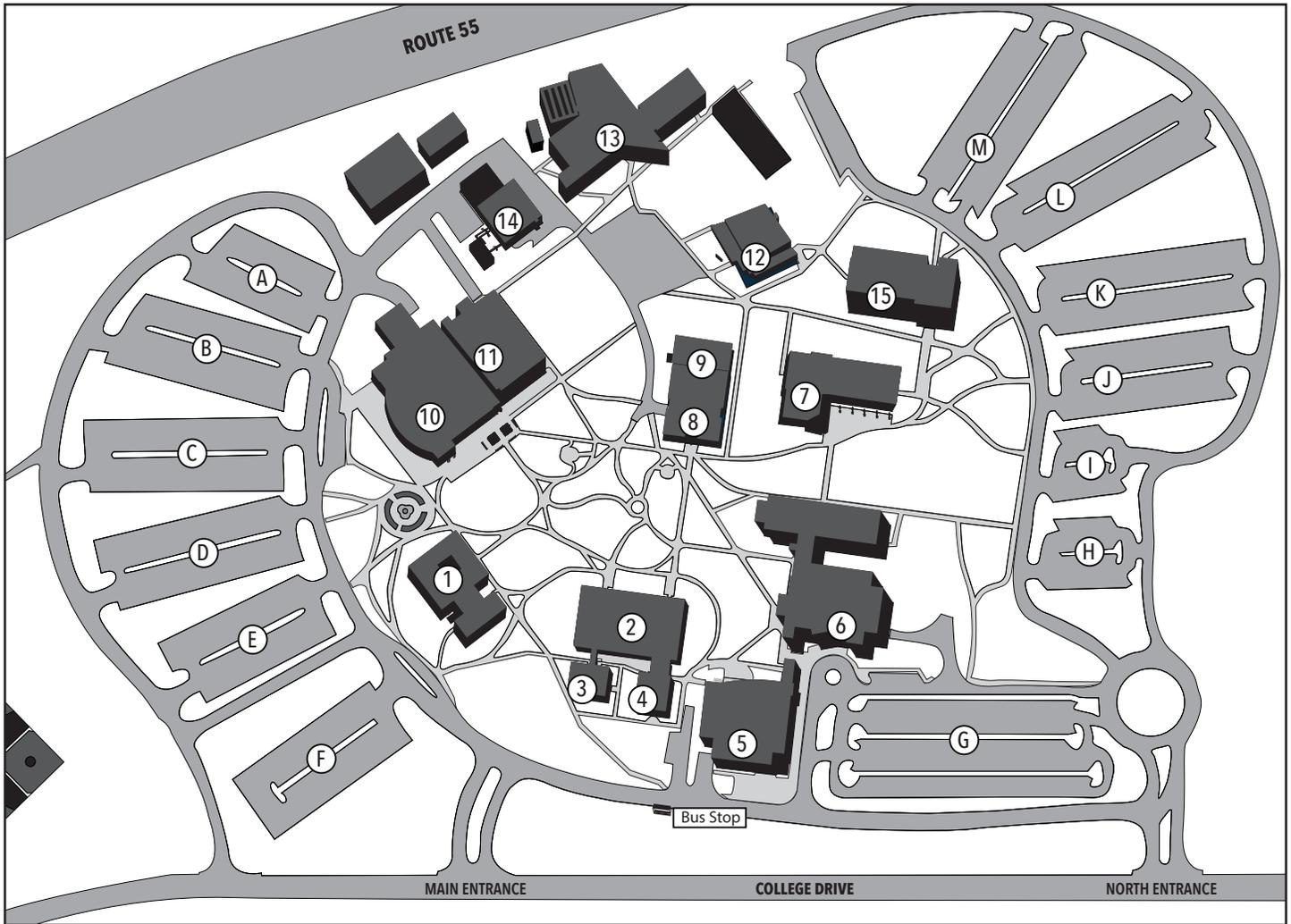
## 15. Center for Workforce & Economic Development

### Parking Lots

A, B, C, D, E, F, G, H, I, J, K, L, M

### Off-Campus Sites

- Arts & Innovation Center  
321 N. High St., Millville
- Paula J. Ring Education Center  
10 Buck Street, Millville



- 1. Administrative Building
- 2. Academic Building
- 3. Computer Classroom, Labs
- 4. Academic Support Labs
- 5. Luciano Conference Center
- 6. Guaracini Arts Center
- 7. University Center
- 8. Library
- 9. Network Operations Center

- 10. Student & Enrollment Services Center- Information
- 11. Dr. Charles Cunningham Building (Gymnasium)
- 12. Navone Healthcare
- 13. Alampi Science Building
- 14. Central Plant - Shipping and Receiving
- 15. Center for Workforce & Economic Development

**Parking Lots**

A,B,C,D,E,F,G,H,I,J,K,L,M

**Off-Campus Sites**

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321 N. High St., Millville, NJ

Paula J. Ring Education Center  
10 Buck St., Millville, NJ

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