Academic Programs

Accounting
  A.A.S. Degree

Accounting: CPA Education Compliance
  Certificates of Proficiency

Administrative Support
  Certificate of Proficiency

Advanced Manufacturing Technology
  A.A.S. Degree
  Certificate of Proficiency

Advertising + Graphic Design
  A.A.S. Degree in Visual Arts

Airline Transport Pilot (ATP)
  Certificate of Achievement

3-D Animation
  Certificate of Proficiency

Architecture
  A.S. Degree

Audio Production
  A.A.S. Degree in Radio/TV

Automotive Technology
  A.A.S. Degree

Aviation Flight Technology
  A.A.S. Degree
  concentration: Airline Transport Pilot (ATP)
  Certificate of Proficiency

Aviation Management
  A.S. Degree

Biology
  A.S. Degree in Liberal Arts and Sciences
  concentration:
  Pre-Medicine, Pre-Veterinarian, Pre-Dentistry

Building Construction Technology
  Certificate of Proficiency

Business Administration
  A.S. Degree
  concentrations: Global Business, Sports Management

Business Studies
  A.A.S. Degree in Business Management
  concentrations: Business Systems, Entrepreneurship,
  Management*, Software Professional

Catering Management
  Certificate of Proficiency

Chemistry
  A.S. Degree in Liberal Arts and Sciences

Civil Engineering Technology
  A.A.S. Degree

Commercial Photography
  Certificate of Achievement

Communication
  A.A. Degree in Liberal Arts and Sciences

Communication: New Media
  A.S. Degree in Liberal Arts and Sciences

Communication: Speech and Theatre
  A.A. Degree in Liberal Arts and Sciences

Computer Information Systems
  A.S. Degree

Computer Networking and Technology
  A.A.S. Degree in Information Technology
  Certificate of Proficiency

Computer Science
  A.S. Degree in Liberal Arts and Sciences
  Certificate of Proficiency

Computer Support Specialist
  Certificate of Achievement

Criminal Justice
  A.S. Degree - Corrections option*
  A.S. Degree - Law Enforcement option

Culinary Arts
  A.A.S. Degree
  concentrations: Culinary Arts, Pastry Arts

Culinology / Food Science
  A.S. Degree

Cybersecurity
  A.A.S. Degree in Information Technology

Dance
  A.A. Degree in Liberal Arts and Sciences
  A.F.A. Degree in Performing Arts
  Certificate of Achievement

Database Administration
  Certificate of Proficiency

A.A. — Associate in Arts Degree
A.A.S. — Associate in Applied Science Degree
A.F.A. — Associate in Fine Arts Degree
A.S. — Associate in Science Degree

* Degrees for **Business Studies - management**,
  Criminal Justice - corrections, and **Liberal Arts**
  may be achieved entirely online as well as by traditional
  classroom instruction.

[1] offered with Camden County College

[2] offered with Mercer County Technical Schools

[3] A.S. degree awarded by MCCC; Diploma awarded
  by St. Francis Medical Center School of Nursing

[4] A.S. degree awarded through a cooperative program
  with the School of Health Professions at Rutgers,
  The State University of New Jersey

[5] A.A.S. degree awarded through a cooperative
  program with Brookdale Community College

Special Programs/Options

Developmental Studies

English as a Second Language (ESL)

Other Non-Degree Choices

(details at www.mccc.edu/catalog/catalog_general)

Numbers at the Top of Each Program Page
linking at www.mccc.edu/catalog/catalog_programs

Program **ACCTG.AAS** ← **MCCC code that identifies a student's chosen major**

CIP 520302 ← **external code for State reporting purposes**

Database Concepts and Skills Associate
  Certificate of Achievement
Digital Film
  A.A.S. Degree
Digital Media Arts
  A.A.S. Degree in Visual Arts
  concentrations: 3-D Animation, Web Design, Multimedia
**Early Childhood Education /
Special Education Assistant**
  A.A.S. Degree in Human Services
Education (K-12)
  A.A. Degree in Liberal Arts and Sciences
Electronics Engineering Technology
  A.A.S. Degree
  Certificate of Proficiency
Engineering Science
  A.S. Degree
  Transfer Certificate
Entertainment Technology
  A.A.S. Degree
  concentrations: Technical Theatre, Music Technology
Entrepreneurial Management
  Certificate of Achievement
Exercise Science
  A.S. Degree
Fashion/Apparel Design
  A.A.S. Degree in Visual Arts
Fashion Merchandising
  A.A.S. Degree in Business Management
Fire Science Technology
  A.A.S. Degree
Funeral Service
  A.A.S. Degree
  Certificate of Proficiency
Funeral Service Preparatory
  A.A.S. Degree in Business Management
Game Design
  A.A.S. Degree
Game Programming
  A.A.S. Degree
Health Information Technology[1]
  A.A.S. Degree
Health Science
  A.A.S. Degree
  concentration: Radiography
Heating, Refrigeration and Air Conditioning[2]
  A.A.S. Degree
  Certificate of Proficiency
Hotel, Restaurant and Institution Management
  A.A.S. Degree
Illustration
  A.A.S. Degree in Visual Arts
IT System Analyst Associate
  Certificate of Achievement
Liberal Arts
  A.A. Degree in Liberal Arts and Sciences*
  concentration: Global Studies
Mathematics
  A.S. Degree in Liberal Arts and Sciences
Medical Laboratory Technology
  A.A.S. Degree
Medical Office Assistant
  Certificate of Proficiency

Microcomputer Applications
  Certificate of Proficiency
Mobile and Web Computing
  Certificate of Proficiency
Music
  A.S. Degree in Liberal Arts and Sciences
Nursing
  A.S. Degree
Nursing (Cooperative)[3]
  A.S. Degree in Liberal Arts and Sciences
Occupational Therapy Assistant[4]
  A.S. Degree
Oracle SQL Programming and Database Design Specialist
  Certificate of Achievement
Ornamental Horticulture
  A.A.S. Degree
  concentrations: Ornamental Horticulture,
  Landscape Design, Floral Design
  Certificate of Proficiency
Paralegal
  A.A.S. Degree
  Certificate of Proficiency
Photography
  A.F.A. Degree in Visual Arts
  Certificate of Proficiency
Physical Therapist Assistant
  A.A.S. Degree
Physics
  A.S. Degree in Liberal Arts and Sciences
Plant Science
  A.S. Degree
Professional Acting
  Certificate of Achievement
Professional Baking
  Certificate of Proficiency
Professional Cooking
  Certificate of Proficiency
Public Health
  A.S. Degree
Radiography
  A.A.S. Degree
Respiratory Care[5]
  A.A.S. Degree
Security Systems Technology
  A.A.S. Degree
Small Business Management
  Certificate of Proficiency
Sustainability
  A.S. Degree
Technical Studies
  A.A.S. Degree
Television
  A.A.S. Degree in Radio/TV
Theatre
  A.A. Degree in Liberal Arts and Sciences
  A.F.A. Degree in Performing Arts
Visual Arts
  A.F.A. Degree
  concentrations: Art History, Ceramics/Sculpture, Fine Arts
Web Design
  Certificate of Proficiency
Web Development
  Certificate of Achievement

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

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The field of accounting is dynamic, exciting, growing and currently in need of paraprofessionals. The **Accounting** program seeks to meet this need by preparing students for various entry-level accounting positions in governmental agencies, private and public corporations, and small business firms.

Graduates can begin their career as junior accountants, assistant auditors, bookkeepers, or accounting clerks. Recent graduates have obtained positions with the State of New Jersey, The Clark Group, The Mercadien Group, Bell Atlantic, Congoleum Corporation, the City of Trenton, Educational Testing Service, and AGFA Division of Miles.

Courses offered include income taxation, not-for-profit accounting, auditing, and cost accounting.

PROGRAM OUTCOMES

- Perform all the steps of the accounting cycle for sole proprietorships, partnerships, and corporations;
- Compute and record financial transactions that are unique to governmental and not-for-profit institutions such as hospitals, colleges, and universities;
- Analyze financial statements, prepare managerial reports, and suggest appropriate actions to alleviate or eliminate problems;
- Implement an effective system of internal control;
- Utilize the computer to record accounting information and perform spreadsheet analysis;
- Research printed and electronic resources, evaluate the quality of the information, and report findings orally and/or in written reports.

Students may study full-time or part-time. Most courses are offered both day and evening; advanced accounting courses may be offered only at night.

For students who already possess a qualified baccalaureate or higher degree and are considering sitting for the CPA (Certified Public Accountant) Examination, see the CPA Education Compliance certificates on the following page.

Admission to the program requires a high school diploma or its equivalent.

SEE ALSO:
Accounting: CPA Education Compliance certificate programs

DEGREE CURRICULUM

2021-2022 Academic Year

ACCTG.AAS

CIP 520302

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
BUS 101	Introduction to Business (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CSB 100	College Success and Wellness for Business (2/0) • Some exemptions apply. Consult academic advisor for details.	2	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
IST 101	Computer Concepts with Applications (2/2)	3	
MAT 140	Applied College Algebra (4/0)	4	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
SECOND SEMESTER			
ACC 111	Principles of Financial Accounting (4/0)	4	

BUS 107	Business Law I (3/0)	3	
CIS 105	Excel Basics (1/0)	1	
ENG 112	English Composition II with Speech (3/0)	3	
— —	General Education elective	3	

- Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

ACC 112	Principles of Managerial Accounting (4/0)	4	
ACC 201	Intermediate Accounting I (3/1)	3	
ACC 207	Computerized Accounting (2/2)	3	
ECO 103	Basic Economics (3/0)	3	
	OR		
ECO 111	Macroeconomics (3/0)	3	
	OR		

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting

ECO 112	Microeconomics (3/0)	
— —	General Education elective	3

- Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

FOURTH SEMESTER

ACC 202	Intermediate Accounting II (3/1)	3
ACC 204	Auditing (3/1)	3
ACC 214	Accounting for Non-Profit Organizations (3/0)	3
ACC 215	Cost Accounting (3/1)	3
CIS 175	PC Applications: Spreadsheets (2/2)	3
		60

NOTE: Electives should be selected in consultation with an academic advisor. Students must earn a minimum grade of C in all accounting (ACC) courses to graduate.

Accounting:
CPA Education Compliance
Certificates of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

CPA Education Compliance certificates offered through Mercer County Community College are suitable for those students seeking to satisfy the educational requirements established by the New Jersey State Board of Accountancy in order to be eligible to take the CPA Examination. These are not "review" or "prep" courses for the examination.

To be licensed as a Certified Public Accountant in New Jersey, an applicant must have a baccalaureate or higher degree and obtain at least 150 semester hours from an accredited college or university. These credits can be obtained within or beyond a degree program. In addition, an applicant must obtain at least one year of full-time experience in the areas of auditing or accounting, working under a CPA whose active license is from New Jersey or a state having requirements substantially equivalent to those of New Jersey.

To take the CPA Examination, an applicant must possess:

- a baccalaureate or higher degree from an accredited college or university in any field of study;
- at least 24 semester hours in accounting and 24 semester hours in business courses other than accounting;
- a minimum of 120 semester hours.

Enrollment in these certificate programs alone or concurrently is permitted, depending on individual student requirements. Admission to either requires a baccalaureate or higher degree as specified, including course credits for English (equivalent to ENG 101 or higher) and mathematics (equivalent to MAT 140 or higher), and approval of the program coordinator.

SEE ALSO:
Accounting degree program

CERTIFICATE CURRICULUM

2021-2022 Academic Year
CPA.ACC26.CERT
CIP 520303

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Accounting 26		
Code	**Course (lecture/lab hours)**	**Credits**
ACC 111	Principles of Financial Accounting (4/0)	4
ACC 112	Principles of Managerial Accounting (4/0)	4
ACC 201	Intermediate Accounting I (3/1)	3
ACC 202	Intermediate Accounting II (3/1)	3
ACC 203	Federal Income Taxation (3/0)	3
ACC 204	Auditing (3/1)	3
ACC 207	Computerized Accounting (2/2)	
	OR	3
ACC 214	Accounting for Non-Profit Organizations (3/0)	
ACC 215	Cost Accounting (3/1)	3
		26

NOTE: In order to meet the regulatory minimum 24 credit requirement for accounting courses, it is necessary to take 26 credits of accounting at Mercer County Community College.

CERTIFICATE CURRICULUM

2021-2022 Academic Year

CPA.BUS24.CERT
CIP 520303

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

	Business 24	
Code	**Course (lecture/lab hours)**	**Credits**
BUS 101	Introduction to Business (3/0)	3
BUS 107	Business Law I (3/0)	3
BUS 205	Business Statistics I (3/0)	3
BUS 206	Business Statistics II (3/0)	3
BUS 209	Business Communications (3/0)	3
BUS 210	Principles of Management (3/0)	3
BUS 230	Global Environment of Business (3/0)	3
BUS 296	International Business Practice Firm (1/5)	
	OR	3
MKT 101	Principles of Marketing (3/0)	
		24

Administrative Support
Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Administrative Support** certificate program is designed for students who wish to develop entry-level skills in a short time or for those already employed who wish to upgrade their skills. The acquired skills enable successful graduates of the program to attain one of many possible office support positions in business.

PROGRAM OUTCOMES

- Use a range of computer software programs as tools to complete common business projects;
- Produce documents that are formatted according to standard business practices;
- Perform a variety of general office functions;
- Apply correct grammar, punctuation, and word usage principles in producing documents;
- Compose routine business correspondence;
- Understand the importance of interpersonal skills.

The program may be pursued part- or full-time. Admission requires a high school diploma or its equivalent with one year of mathematics. Students may receive credit for previous training in the skills area by applying for credit-by-examination, credit-by-experience, and/or credit-by-articulation. Contact the program coordinator for additional information.

NOTE: Computer application courses are mapped to Microsoft certification exams.

SEE ALSO:
Microcomputer Applications certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

ADM.SUP.CERT
CIP 520401

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ACC 106	Office Accounting I (3/0)	
	OR	3-4
ACC 111	Principles of Financial Accounting (4/0)	
BUS 105	Business Writing (3/0)	3
ENG 101	English Composition I (3/0)	3
IST 101	Computer Concepts with Applications (2/2) May be substituted with another Technology general education elective if student shows competency in keyboarding and/or Microsoft Office applications.	3
OST 111	Computer Keyboarding with Word Processing Applications (2/2)	3
BUS 101	Introduction to Business (3/0)	3
BUS 209	Business Communications (3/0)	3
CIS 173	PC Applications: Database (2/2)	3
CIS 175	PC Applications: Spreadsheets (2/2)	3
IST 140	The Internet and Computer Technology (2/2)	3
OST 219	Word Processing Concepts and Applications (2/2)	3
		33-34

NOTE: Students must earn a minimum grade of C in all BUS, CIS, IST, and OST courses.

Advanced Manufacturing Technology
Associate in Applied Science Degree (A.A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Advanced Manufacturing Technology (AMT)** A.A.S. degree program is designed to prepare students to move into the workforce in the modern manufacturing environment, and/or to transfer to an institution that offers a bachelor's degree in such studies as mechatronics, advanced manufacturing technology, or mechanical engineering technology.

With American manufacturers becoming increasingly dependent upon the use of high-tech equipment that involves multiple, integrated systems, it is crucial to recruit and employ individuals who know how to operate, troubleshoot, and maintain it. Skills learned in this program include operation of a manual lathe, manual milling machine, as well as computer numerically controlled (CNC) machines and programmable logic controllers (PLCs).

The AMT degree program prepares students for apprentice/entry-level positions in manufacturing facilities and machine shops locally as well as nearly anywhere in the country. Typical tasks include setting up and operating equipment such as engine or turret lathes, milling machines, and power presses. More advanced tasks may involve operating CNC manufacturing equipment as well as PLCs or robots for assembly lines.

AMT graduates are attractive to employers who implement team-oriented design, production, quality, and maintenance systems within the manufacturing environment. Students in this program are also eligible for NIMS (National Institute of Metalworking Skills) certifications.

PROGRAM OUTCOMES

- Pursue NIMS certification;
- Read blueprints and schematics;
- Use instruments such as micrometers, calipers, and scales;
- Set up and operate a milling machine;
- Set up and operate a lathe;
- Set up and operate CNC machines;
- Maintain a safe and organized work space;
- Make certain mathematical calculations related to shop work;
- Populate and repair printed circuit boards.

Admission to the program requires a high school diploma or its equivalent with one year of algebra or applied mathematics.

SEE ALSO:

[Advanced Manufacturing Technology](#) certificate program

DEGREE CURRICULUM

2021-2022 Academic Year

MANUF.TECH.AMT.AAS
CIP 143601

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
AMT 101	Machine Shop Techniques I (2/3)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
DRA 190	Introduction to Computer-Aided Drafting (1/2)	2	
ENG 101	English Composition I (3/0)	3	
MAT 115	Algebra and Trigonometry I (3/0)	3	
— —	General Education elective	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning. ✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

AMT 102	Machine Shop Analysis Methods (3/0)	3
AMT 103	Blueprint Reading Basics (1/2)	2
CIV 106	Mechanics (3/0)	3
EET 130	Fundamentals of Electronics (2/2)	3
MAT 125	Elementary Statistics I (3/0)	3

SUMMER SESSION

AMT 110	Machine Shop Techniques II (2/3)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

AMT 122	Metrology and Quality Control (3/0)	3
AMT 220	Material and Manufacturing Process (3/0)	3
AMT 231	Introduction to Computer Numerical Controlled (CNC) Machines (2/3)	3
EET 140	Electronic Construction (1/3)	2
ENG 112	English Composition II with Speech (3/0)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting

involved in activities and clubs.

✔ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✔ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

AMT 232	Advanced Computer Numerical Controlled (CNC) Machines (2/3)	3
AMT 291	Advanced Manufacturing Internship (1/6)	3
DRA 218	3-D Modeling / 3-D Printing (2/2)	3
— —	Humanities general education elective	3
— —	General Education elective	3

- Select from ECO 103, 111, 112.

✔ Get ready to start your career! Begin the job application process.

✔ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

Advanced Manufacturing Technology

Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Advanced Manufacturing Technology** program is designed to prepare students for the modern manufacturing environment. This certificate of proficiency is attractive to employers who implement team-oriented design, production, quality, and maintenance systems within the manufacturing environment.

American manufacturers are becoming increasingly dependent upon the use of high-tech equipment that involves multiple, integrated systems. It is crucial that these companies be able to recruit and employ individuals who know how to operate, troubleshoot, and maintain it.

The certificate program prepares students for apprentice/entry-level positions in shops and manufacturing facilities not only in the local area but almost anywhere in the country. Typical tasks include setting up and operating equipment such as engine or turret lathes, milling machines, and power presses. More advanced tasks may involve operating computer-controlled manufacturing equipment (CNC) as well as programmable logic controllers (PLCs) or robots for assembly lines.

Admission to the program requires a high school diploma or its equivalent with one year of algebra or applied mathematics.

PROGRAM OUTCOMES

- Read prints and schematics;
- Use instruments such as micrometers, calipers, and scales;
- Set up and operate a milling machine;
- Set up and operate a lathe;
- Populate and repair printed circuit boards;
- Maintain a safe and organized work space;
- Make certain mathematical calculations related to shop work;
- Succeed in future courses, such as those involving PLC and CNC systems.

SEE ALSO:
Advanced Manufacturing Technology degree program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

MANUF.TECH.AMT.CERT

CIP 143601

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
AMT 101	Machine Shop Techniques I (2/3)	3
DRA 190	Introduction to Computer-Aided Drafting (1/2)	2
ENG 101	English Composition I (3/0)	3
MAT 115	Algebra and Trigonometry I (3/0)	3
— —	Science OR Technology general education elective	3
AMT 102	Machine Shop Analysis Methods (3/0)	3
AMT 103	Blueprint Reading Basics (2/0)	2
AMT 110	Machine Shop Techniques II (2/3)	3
AMT 231	Introduction to Computer Numerical Controlled (CNC) Machines (2/3)	3
AMT 232	Advanced Computer Numerical Controlled (CNC) Machines (2/3)	3
AMT 290	Advanced Manufacturing Technology Internship	2
		30

Advertising + Graphic Design

Associate in Applied Science Degree in Visual Arts (A.A.S.)

Advertising + Graphic Design, a comprehensive art program in the Visual Arts A.A.S. degree, emphasizes concept development and visual communication skills. The degree program prepares students for positions as graphic designers, art directors, design consultants, web/digital designers, prepress specialists, exhibit designers, packaging developers, and visual communicators. These positions are most often found in advertising agencies, design firms, corporate communication departments, interactive multimedia studios, and the television, film and media industries.

Students gain a thorough understanding of the discipline by preparing for advanced study in graphic design, advertising design, and web/digital design. The program parallels the first two years of education at a majority of undergraduate universities and art colleges, with an emphasis on career training for gainful employment.

The general principles studied and practiced in these courses are the foundation of creative thinking and successful solutions for graphic design, illustration, and advertising art direction communication problems. The design course sequence emphasizes the development of creative thinking, problem solving, and forms of visual communication.

Most coursework takes place in a studio using regularly upgraded professional-quality hardware and software. Applying Macintosh as well as PC platforms, the equipment used at MCCC is the same as that most commonly used by agencies, studios, and corporate art departments.

The program may be pursued on a full-time or part-time basis. Some courses may only be offered during the day.

PROGRAM OUTCOMES

- Apply computer applications to design principles;
- Visualize and practice professional typography;
- Design and present professional-quality work;
- Create professional-quality logos, newsletters, posters, brochures, websites, publications, and advertisements;
- Create web pages that use design principles that communicate effectively;
- Develop and present creative ideas in both written and oral formats;
- Develop a professional portfolio to serve in the pursuit of further education or employment.

SEE ALSO:
Illustration degree program

DEGREE CURRICULUM
2021-2022 Academic Year
ADV.GRA.AAS
CIP 500402

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ART 102	Basic Drawing (1/4)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ART 105	Two-Dimensional Design (1/4)	3	
DMA 115	Vector Drawing (1/4)	3	
DMA 144	Internet Tools and Techniques (1/4)	3	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

ADV 101	Advertising Design I (1/4)	3
ADV 110	Typography I: Basics of Graphic Design (1/4)	3
ART 122	History of Art II (3/0)	3
DMA 110	Digital Imaging (1/4)	3
DMA 145	Web Design I (1/4)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

ADV 210	Publication Design (1/4)	3
CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
DMA 250	Digital Portfolio Seminar (1/4)	3
ENG 102	English Composition II (3/0)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

<u>MAT</u> —	Mathematics elective	3	

- MAT 120 or 125 recommended. Select in consultation with an academic advisor.

FOURTH SEMESTER

<u>ADV 201</u>	Advertising Design II (1/4)	3	
<u>ART 106</u>	Three-Dimensional Design (1/4)	3	
<u>PHO 103</u>	Digital Photography I (2/3)	3	
<u>ART</u> —	Art History elective	3	

- Select from ART 121, 124, 125, PHO 110.

— —	Professional elective	3	

- Select from ADV 220, 230; ART 104; CMN 146; DMA 135, 210, 245.

✓ Get ready to start your career! Begin the job application process.

✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

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NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

NOTE: Students must earn a minimum grade of C in ADV 101, 201, 210; ART 105; DMA 145 to graduate.

Airline Transport Pilot (ATP)

Certificate of Achievement

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Airline Transport Pilot (ATP)** certificate program completes the educational and flight training requirements for commercial/instrument rated helicopter pilots to obtain their Airline Transport Pilot Certificate and be eligible for employment with a regional airline as a professional pilot.

The program is intended to provide students with an educational experience that encourages integration of the theoretical and technical aspects of aviation and the airline industry; to provide a transition from helicopter to multi-engine fixed wing aircraft; and to foster an atmosphere of education as a lifelong process that is necessary in the ever-changing aviation industry.

PROGRAM OUTCOMES

- Obtain the appropriate ground and flight certificates;
- Eligibility for a position with a regional airline to begin their ATP training.

Along with proof of citizenship or Transportation Security Administration approval, admission to this certificate program requires the student to possess a commercial/instrument helicopter rating, 60 credits of college-level courses at an accredited institution, or equivalent employment experience.

Before flight training begins, an aviation medical will be required. Contact the aviation program coordinator for details. Flight fees are required.

SEE ALSO:
Aviation Flight Technology degree program
Aviation Flight Technology: Airline Transport Pilot (ATP)degree program
Aviation Flight Technology: CFI certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

AVI.ATP.CRT

CIP 490102

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ENG 101	English Composition I (3/0)	3
	• Students possessing a bachelor's degree should take ENG 112.	
MAT 115	Algebra and Trigonometry I (3/0)	3
AVI 102	Aviation Transportation (3/0)	3
AVI 216	Flight V (1/3)	4
AVI 250	Airline Transport Pilot (ATP) Prep I (2/6)	6
AVI 251	Airline Transport Pilot (ATP) Prep II (1/3)	3
AVI 217	Flight VI (Multi-Engine Training) (1/1)	1
		23

3-D Animation

Certificate of Proficiency

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **3-D Animation** Certificate prepares students for positions as 3-D production artists, animators, and modelers. Typical employers include animation studios; advertising agencies; design firms; television, film and video effects houses; and other branches of the entertainment industry.

PROGRAM OUTCOMES

- Explain the pre-production process, including character design and storyboarding;
- Visualize and animate story ideas;
- Apply animation and storytelling principles to specific animation projects;
- Apply design principles to create 3-D computer animations that communicate effectively;
- Apply professional 3-D modeling and animation software applications;
- Solve design problems, which contain change over time, 3-D models, camera positions, lighting, and textures;
- Create a professional portfolio to serve in the pursuit of further education or employment.

SEE ALSO:

Digital Media Arts degree program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

ANIMTN.CERT
CIP 500402

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ENG 101	English Composition I (3/0)	3
ART 102	Basic Drawing (1/4)	3
ART 104	Life Drawing (1/4)	3
ART 125	Topics in Contemporary Art (3/0)	3
DMA 105	Introduction to Computer Art (1/4)	3
DMA 120	3-D Modeling I (1/4)	3
DMA 135	Digital Narrative (1/4)	3
DMA 220	3-D Modeling II (1/4)	
	OR	3
DMA 224	Rigging for Animation and Games (1/4)	
DMA 225	Computer Animation I (1/4)	3
DMA 226	Computer Animation II (1/4)	3
DMA 250	Digital Portfolio Seminar (1/4)	3

2021-2022 Academic Year

Architecture
Associate in Science Degree (A.S.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Architecture** transfer program parallels the first two years of education at a majority of undergraduate schools of architecture. It offers a balance of academic and design courses.

The academic courses provide students with a broad base of general knowledge which widens their outlook and increases their ability to evaluate issues and make enlightened decisions. The design courses emphasize the development of skills in architectural conceptualization and design decision-making. They include both traditional methods of architectural graphics and model building as well as use of the computer as a three-dimensional design study tool.

Together, the academic courses and design courses form the foundation needed for advancement in architectural education and, later, in professional practice. Students have the opportunity to enrich their education through participation in field trips and a variety of architecture-related extracurricular activities.

Since architecture programs vary among senior colleges and admission is highly competitive, faculty assistance is readily available to students preparing design portfolios and investigating potential transfer institutions. The architecture faculty are registered architects.

PROGRAM OUTCOMES

- Use analytical skills to determine the major elements of a work of architecture and/or an architectural design project;
- Comprehend and apply the various stages of the creative thought process to produce an architectural design;
- Understand and apply the basic principles of sustainable design;
- Use two- and three-dimensional visual communication skills (freehand, traditional, and computer-generated drawings and physical models) to convey a complete architectural idea;
- Demonstrate knowledge of the important buildings and stages in the history of architecture and the social and technological factors that influenced them;
- Critically evaluate the built environment – its relationship to the natural world and the reciprocal sociological and psychological influences on man;
- Demonstrate knowledge of architectural materials and structural systems and their appropriate applications in building construction.

Admission to the Architecture program requires a high school diploma or its equivalent with at least one year of science (biology, chemistry, or physics) and two years of algebra. Courses in the visual arts are highly recommended.

DEGREE CURRICULUM

2021-2022 Academic Year
ARCH.AS
CIP 049999

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ARC 102	Graphic Communication for Architecture (1/4)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ARC 105	Architectural Basic Design I (1/4)	3	
ART 122	History of Art II (3/0)	3	
ENG 101	English Composition I (3/0)	3	
CMN 112	Public Speaking (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

ARC 104	Computers in Architecture (1/4)	3
ARC 123	Architecture Basic Design II (1/8)	5
ENG 102	English Composition II (3/0)	3
MAT 146	Pre-Calculus (4/0)	4

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

ARC 122	History of Architecture to 1860 (3/0)	3
ARC 227	Architecture Design I (1/8)	5
PHY 101	College Physics I (3/3)	4
— —	Social Science general education elective	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

ARC 124	History and Theory of Modern Architecture (3/0)	3
ARC 228	Architecture Design II (1/8)	5
PHY 102	College Physics II (3/3)	4
— —	General Education elective	3

- Select course from the following general education categories: Humanities, Historical Perspective, Diversity and Global Perspective.

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

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NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

Audio Production

Associate in Applied Science Degree in Radio/TV (A.A.S.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Audio Production** program targets a wide range of technical skills. Students begin with traditional radio production, then rapidly accelerate into advanced audio production. Individuals in this program will become proficient in audio applications that are the standard in the industries of radio, audio, and music production.

Theoretical instruction combines with hands-on, real-world lab projects that get students working with audio mixers, microphones, and digital audio workstations from the very beginning. Recording, sequencing, and editing audio help active students build a portfolio of work to demonstrate a level of expertise reached using tools of the profession.

Audio Production is a career-oriented program designed to allow graduates to seek employment following graduation or transfer to four-year institutions. Graduates can enter the workforce as an audio producer, radio producer, DJ, audio editor, live sound technician, audio engineer, sound recorder, or other entry-level position in the radio, live sound, or recording industries.

Mercer graduates have transferred to a number of colleges and universities in New Jersey and other states, including The College of New Jersey, Montclair University, Monmouth University, Rowan University, William Paterson State College, and Emerson College.

Admission to the program requires a high school diploma or its equivalent.

PROGRAM OUTCOMES

- Operate radio studio equipment including broadcast consoles, analog and digital recording devices, digital media players, and computerized music playback systems;
- Record vocal and instrumental performances in a multi-track environment;
- Perform digital editing and multi-track sequencing on digital audio workstations;
- Write, edit, and produce commercial and news copy;
- Produce and announce voiceovers for video sequences, radio news, and commercial projects;
- Write, produce, and post a podcast;
- Identify different advertising and marketing models utilized in social media;
- Interpret audience data using analytics;
- Work cooperatively with colleagues to achieve multiple goals including successful multi-track recording sessions;
- Achieve entry-level professional competence for a position in recording, sound reinforcement, or radio broadcasting.

DEGREE CURRICULUM
2021-2022 Academic Year
COMM.AUDIO.AAS
CIP 100203

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CMN 101	Mass Media (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CMN 151	Introduction to Radio (2/2)	3	
CMN 153	Digital Audio Production I (2/2)	3	
ENG 101	English Composition I (3/0)	3	
MUS 156	History of American Pop Music (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
CMN 146	Social Media Technologies (2/2)	3
CMN 253	Digital Audio Production II (2/2)	3
DMA 144	Internet Tools and Techniques (1/4)	
	• (recommended)	
	OR	3
IST 101	Computer Concepts with Applications (2/2)	
ENG 102	English Composition II (3/0)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

CMN 161	Writing for Media (3/0)	3
CMN 250	Announcing for Media (2/2)	3
CMN 254	Live Sound Reinforcement (2/2)	3
CMN 256	Digital Audio Production III (2/2)	3
MAT 125	Elementary Statistics I (3/0)	3
	• Or consult academic advisor.	

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting

involved in activities and clubs.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

CMN 255	Sound Design for the Entertainment Industry (1/4)	3	✓ Get ready to start your career! Begin the job application process.
CMN 257	Podcasting (2/2)	3	
THR 152	Lighting Technology (2/2)		✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.
	OR	3	
CMN 142	Introduction to Field Production (2/2)		
CMN 290	Internship: Communications		
	OR	3	
CMN 286	Special Studies in Radio		
— —	Social Science or Humanities general education elective	3	
		60	

NOTE: Students must earn a minimum grade of C in all CMN courses to graduate.

Automotive Technology
Associate in Applied Science Degree (A.A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Automotive Technology** program introduces students to current automotive systems and related diagnostic and service techniques. Students learn on and about current automotive technology and its use in late model production vehicles. Learning occurs during classroom instruction and lab activities performed in the auto shop. In addition, students develop a strong work ethic and learn professionalism while fulfilling internship requirements at their sponsoring repair facility.

The A.A.S. program offers two paths of study that students may choose from: MOPAR CAP (Career Automotive Program) and Comprehensive.

MCAP students complete FIAT/Chrysler-specific course material and secure a position at a Chrysler, Dodge, Jeep, or FIAT dealership as an apprentice technician.

Students following the Comprehensive path learn theory, operation, diagnosis, and service of systems not specific to any particular vehicle manufacturer, and complete internship requirements at an approved independent, franchise or dealership repair facility.

PROGRAM OUTCOMES

- Diagnose, repair, and service current automotive technologies;
- Demonstrate desirable attitudes and work habits while working individually or with others;
- Obtain service repair information and procedures from online websites and electronic databases;
- Communicate effectively and professionally with customers and fellow technicians.

Admission to the program requires a high school diploma or its equivalent and a strong interest in a career in automotive technology. Admission is competitive, determined by basic skill levels along with a personal interview with program representatives. Academic foundations requirements should be completed before starting automotive classes.

The program may be completed in two years, beginning in the Fall semester and with Summer session attendance required each year. Instruction is organized in a concentrated two-day / three-day session format. Students attend the automotive classes Mondays and Wednesdays or Tuesdays and Thursdays, completing academic support classes in the afternoon or evening. Each session includes an internship at a dealership or approved repair facility.

The automotive classes meet at the Assunpink Campus of the Mercer County Technical Schools, across from MCCC's West Windsor campus on Old Trenton Road.

DEGREE CURRICULUM
2021-2022 Academic Year
AUTO.TECH.AAS
CIP 150803

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits
FIRST SEMESTER		
AUT 110	Introduction to Automotive Electronics (3/1)	3
AUT 111	Automotive Service Fundamentals (2/6)	5
CSW 100	College Success and Personal Wellness (2/0) Some exemptions apply. Consult academic advisor for details.	2
ENG 101	English Composition I (3/0)	3
SECOND SEMESTER		
AUT 113	Suspension, Steering and Alignment (2/4)	4
AUT 114	Automotive Electricity and Electronics (2/3)	3
MAT 140	Applied College Algebra (4/0) Or select from MAT 146 or 151.	4
SUMMER SESSION		
AUT 115	Automotive Brake Systems (2/4)	4

AUT 122	Internship in Automotive Technology I	1
AUT 212	Automotive Air Conditioning (2/2)	3
ENG 112	English Composition II with Speech (3/0)	3

THIRD SEMESTER

AUT 112	Automotive Fuel Systems (2/3)	3
AUT 123	Internship in Automotive Technology II	1
AUT 213	Engine Service (2/5)	4
PHY 111	Physical Science Concepts (2/2)	3

FOURTH SEMESTER

AUT 211	Automotive Emissions and Driveability Diagnosis (2/3)	3
AUT 221	Internship in Automotive Technology III	1
AUT 224	Manual Transmissions and Drivelines (2/3)	3
— —	Social Science or Humanities general education elective	3

SUMMER SESSION

AUT 222	Internship in Automotive Technology IV	1
AUT 225	Automatic Transmission Service (2/3)	3
IST 101	Computer Concepts with Applications (2/2)	
	OR	3
IST 102	Computer Concepts with Programming (2/2)	
— —	General Education elective Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.	3
		66

NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

Aviation Flight Technology
Associate in Applied Science Degree (A.A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Aviation Flight Technology** program is accredited by the Aviation Accreditation Board International and provides flight instruction for the Private and Commercial certificates and Instrument rating. MCCC operates flight instruction in accordance with Air Agency Certification issued to the college by the FAA.

In order to complete the program, every student must successfully pass the Federal Aviation Administration (FAA) Private, Commercial, and Instrument computer examinations and be certified as a commercial pilot with instrument rating. Ninety-seven percent of Mercer's students have passed the examinations on the first attempt. The college is an approved examining authority; FAA computer tests are conducted at the college.

PROGRAM OUTCOMES

- Obtain the appropriate ground and flight certificates;
- Fill related aviation positions requiring specific aviation knowledge with airport service operators located at numerous airports in the United States and possessions.

Most of the aviation courses are offered during the day, and certain ones may be available during the evening. Cooperative education opportunities are also available.

A career with the major airlines may require a four-year baccalaureate degree. There are direct transfer agreements with Embry-Riddle Aeronautical University, Florida Institute of Technology, Metropolitan State College, Thomas Edison State College, Southern Illinois University, Dowling College, and Central Missouri State University.

Students in the Aviation Flight Technology program receive classroom and laboratory instruction on the West Windsor Campus. Actual flight training takes place at a fixed base operation at Trenton-Mercer Airport, where the college has access to a fleet of aircraft and supervises the flight instructors.

An active advisory commission consisting of experts from the government and civilian areas of aviation recommends changes necessary to maintain a quality program.

Admission to the program requires a high school diploma with one year of algebra. High school courses in trigonometry and physics are an advantage. Proof of citizenship or

Transportation Security Administration approval is required for enrollment in the Flight program. Before flight training begins, an aviation medical will be required. Contact the Aviation program coordinator for details. Flight fees required.

Graduates of the program often return to take a flight training course toward the certified flight instructor rating.

SEE ALSO:
Airline Transport Pilot (ATP) certificate program
Aviation Flight Technology: Airline Transport Pilot (ATP) degree program
Aviation Flight Technology: CFI certificate program

DEGREE CURRICULUM
2021-2022 Academic Year
AVI.FLT.AAS
CIP 490102

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances. Students will begin each Flight course within seven days of the registered term.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture / field study hours)	Credits	To Do This Semester
FIRST SEMESTER			
AVI 112	Primary Flight (1/60)	2	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
AVI 131	Commercial Pilot I (3/0)	3	
CSW 100	College Success and Personal Wellness (2/0)	2	
	• Some exemptions apply. Consult academic advisor for details.		

ENG 101	English Composition I (3/0)	3
MAT 115	Algebra and Trigonometry I (3/0)	3

✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.

✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

AVI 101	Aerospace Development (3/0)	3
AVI 113	Flight I (1/60)	2
	• Special fee required; hours to be arranged.	
AVI 132	Commercial Pilot II (3/0)	3
CMN 112	Public Speaking (3/0)	3
MAT 116	Algebra and Trigonometry II (3/0)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

AVI 105	Aviation Weather (3/0)	3
AVI 114	Flight II (1/60)	2

- Special fee required; hours to be arranged.

PHY 101	College Physics I (3/3)	4
SOC 101	Introduction to Sociology (3/0)	3

- PSY 101 is an acceptable substitute.

FOURTH SEMESTER

AVI 203	Aircraft Components (3/0)	3
AVI 208	Aviation Seminar (1/0)	1
AVI 231	Commercial Pilot III (3/0)	3
AVI 240	Flight III (1/60)	2

- Special fee required; hours to be arranged.

— —	[General Education elective](#)	3	

- Select course from the following [general education](#) categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

FIFTH SEMESTER

[AVI 102](#)	Aviation Transportation (3/0)	3	✓ Get ready to start your career! Begin the job application process.
[AVI 215](#)	Aerodynamics (2/2)	3	
[AVI 217](#)	Flight VI (1/45)	1	✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

- Completion of AVI 241 flight training required before starting AVI 217 training.
- Special fee required; hours to be arranged.

[AVI 241](#)	Flight IV (1/60)	2	

- Special fee required; hours to be arranged.

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NOTE: Students must earn a minimum grade of C in AVI 113, 114, 131, 132, 213, 214, 215, 231, and MAT 115 to graduate.

2021 – 2022 Flight Fees

Aviation Flight Technology Associate Degree Program Flight Fee Costs

Course	Flight Hours included in Cost	Cost/Flight Fees
AVI 112	30.0	$8,208.00
AVI 113	28.5	$7,624.00
AVI 114	50	$11,264.50
AVI 213	48.8	$11,988.20
AVI 214	47.8	$ 12,812.20
AVI 217	16.8	$7,705.00

Flight Training Fees for Aviation Technology

Mercer County Community College's Aviation Flight Technology A.A.S. degree program is designed to provide full private, commercial, and instrument flight training in as little as two years. The total estimated flight training fees will vary depending upon program training coursework required towards certification and licensing and are subject to change without notice. Since these courses are skill based, additional time is often need to meet FAA certification requirements. See the chart below for hourly charges for additional time needed to complete the program.

Aviation Flight Technology students should anticipate average total flight fees of approximately $33,000 for 2021-2022 academic year. Further information on flight fees and this degree program is available from the Aviation program coordinator in the Business, Technology, and Professional Studies division office on the West Windsor campus.

Aircraft	Hourly Rate
C172S	$179.00
C172G1000	$199.00
PA-44 Seminole	$350.00
Flight /Ground Instruction	**Hourly Rate**
Single Engine Training	**$55.00**
Multi-Engine Training	**$65.00**

Aviation Flight Technology

Airline Transport Pilot (ATP) concentration
Associate in Applied Science Degree (A.A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

Students with an FAA Helicopter Commercial / Instrument Certificate should enroll in the Airline Transport Pilot (ATP) concentration.

The **Airline Transport Pilot (ATP)** concentration of the Aviation Flight Technology A.A.S. degree program completes the educational and flight training requirements for commercial/instrument rated helicopter pilots to be eligible for employment with a regional airline as a professional pilot.

MCCC operates flight instruction in accordance with Air Agency Certification issued to the college by the FAA.

PROGRAM OUTCOMES

- Obtain the appropriate ground and flight certificates;
- Eligibility for a position with a regional airline to begin their ATP training.

Along with proof of citizenship or Transportation Security Administration approval, enrollment in the flight program requires the student to possess an FAA commercial/instrument helicopter rating. Before flight training begins, an aviation medical will be required. Contact the aviation program coordinator for details.

Flight fees are required. AVI 216, 217, 250, and 251 are six-week courses; all others follow the standard semester schedule or may be taken online as applicable. Credit for prior experience will be evaluated by the program coordinator.

SEE ALSO:
Airline Transport Pilot (ATP) certificate program
Aviation Flight Technology degree program
Aviation Flight Technology: CFI certificate program

DEGREE CURRICULUM

2021-2022 Academic Year

AVI.FLT.ATP.AAS
CIP 490102

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances. Students will begin each Flight course within seven days of the registered term.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
AVI 101	Aerospace Development (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
AVI 216	Flight V (1/3)	4	
	• Special fee required. Offered in six-week terms, hours to be arranged. Flight prerequisite courses are required to be completed before starting the next flight course.		
CSW 100	College Success and Personal Wellness (2/0)	2	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
	• Some exemptions apply. Consult academic advisor for details.		
ENG 101	English Composition I (3/0)	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
MAT 115	Algebra and Trigonometry I (3/0)	3	
SECOND SEMESTER			
AVI 105	Aviation Weather (3/0)	3	

AVI 217	Flight VI (1/1)	1

- Special fee required. Offered in six-week terms, hours to be arranged. Flight prerequisite courses are required to be completed before starting the next flight course. AVI 217 and 250 may be offered in the same semester since each is not a prerequisite for the other.

CMN 112	Public Speaking (3/0)	3
ENG 102	English Composition II (3/0)	3
MAT 116	Algebra and Trigonometry II (3/0)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

AVI 203	Aircraft Components (3/0)	3
AVI 208	Aviation Seminar	1
AVI 250	Airline Transport Pilot (ATP) Prep I (2/6)	6

- Special fee required. Offered in six-week terms, hours to be arranged. Flight prerequisite courses are required to be completed before starting the next flight course. AVI 217 and 250 may be offered in the same semester since each is not a prerequisite for the other.

PHY 101	College Physics I (3/3)	4

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting

SOC 101	Introduction to Sociology (3/0)	3	involved in activities and clubs.

- PSY 101 is an acceptable substitute.

FOURTH SEMESTER

AVI 102	Aviation Transportation (3/0)	3	✓ Get ready to start your career! Begin the job application process.
AVI 215	Aerodynamics (2/2)	3	
AVI 251	Airline Transport Pilot (ATP) Prep II (1/3)	3	✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

- Special fee required. Offered in six-week terms, hours to be arranged. Flight prerequisite courses are required to be completed before starting the next flight course.

IST 101	Computer Concepts with Applications (2/2)	3	
— —	General Education elective	3	

- Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

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NOTE: Students must earn a minimum grade of C in AVI 113, 114, 131, 132, 213, 214, 215, 231, and MAT 115 to graduate.

2021-2022 Flight Fees

A.A.S. Flight Technology - Airline Transport Pilot (ATP) Concentration

Course	Flight Hours included in Cost	Flight Fee Cost
AVI 216	80.0	$21.602.00
AVI 217	16.8	$7,705.00
AVI 250	110.0	$27,368.00
AVI 251	58.5	$ 14,852.00

Flight Training Fees for Aviation Technology
Mercer County Community College's Aviation Flight Technology A.A.S. – ATP concentration is designed to provide transition training to fixed wing aircraft for commercial/instrument rated helicopter pilots, multi-engine certification, and flight time building. At the end of this program, the student will have the minimum fixed wing flight time needed to be hired by a regional airline. The flight courses are accelerated courses and are designed to be completed in 21 weeks. The total estimated flight training fees will vary depending upon program training coursework required towards certification and licensing and are subject to change without notice. Since these courses are skill based, additional time is often need to meet FAA certification requirements. See the chart below for hourly charges for additional time needed to complete the program. Further information on flight fees and this certification program is available from the Aviation Program Coordinator.

Aircraft	Hourly Rate
C172S	$179.00
C172G1000	$199.00
PA-44 Seminole	$350.00
Flight /Ground Instruction	**Hourly Rate**
Single Engine Training	**$55.00**
Multi-Engine Training	**$65.00**

Aviation Flight Technology: CFI
Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Aviation Flight Technology: CFI** (Certified Flight Instructor) Certificate is designed to qualify graduates to become flight instructors. This position is a beginning step to becoming a professional pilot.

To succeed in a career as a pilot for a major airline, a candidate must possess a college degree. Many students who already possess an associate and/or a baccalaureate degree can qualify for these competitive positions after they attain their flight credentials and experience. Students without previous college experience can pursue this certificate and then later, if they wish, apply the credits toward the A.A.S. degree in Aviation Flight Technology.

PROGRAM OUTCOMES

- Give flight instruction for the private pilot certificate;
- Teach ground school for the private certificate;
- Demonstrate the flight characteristics of a single-engine aircraft for sales and maintenance;
- Fly power line, fish spotting, traffic patrol and parachute drops, and tow aerial banners;
- Work as flight schedulers with fixed base operators.

Proof of citizenship or Transportation Security Administration approval is required for enrollment in the Flight program. Before flight training begins, an aviation medical will be required. Contact the Aviation program coordinator for details.

All of the credits earned in this certificate except the flight instructor course apply to the A.A.S. degree in Aviation Flight Technology. Additionally, all of the certificate credits are transferable to the baccalaureate Aviation program at Thomas Edison State College.

SEE ALSO:
Airline Transport Pilot (ATP) certificate program
Aviation Flight Technology degree program
Aviation Flight Technology: Airline Transport Pilot (ATP) degree program

CERTIFICATE CURRICULUM

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ENG 101	English Composition I (3/0)	3
MAT 115	Algebra and Trigonometry I (3/0)	3
AVI 113	Flight I (1/3) Special fee required; hours to be arranged.	2
AVI 131	Commercial Pilot I (3/0)	3
AVI 105	Aviation Weather (3/0)	3
AVI 114	Flight II (1/3) Special fee required; hours to be arranged.	2
AVI 132	Commercial Pilot II (3/0)	3
AVI 215	Aerodynamics (2/2)	3
AVI 213	Flight III (1/4) Special fee required; hours to be arranged.	3
AVI 231	Commercial Pilot III (3/0)	3
AVI 214	Flight IV (1/4) Special fee required; hours to be arranged.	3
AVI 233	Flight Instructor – Airplane (3/0)	3
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Aviation Management

Associate in Science Degree (A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Aviation Management** program provides students with a background in business administration and related technical knowledge in aviation. In most cases, the graduate of this program should seek a four-year baccalaureate degree. Aviation management has evolved into a career discipline that requires a variety of skills.

PROGRAM OUTCOMES

- Utilize business information processing systems to improve management control in aviation businesses;
- Interpret financial statements and prepare budgets;
- Perform staff functions in marketing, sales, and general management with aviation-related businesses;
- Interpret and apply Federal Aviation Administration regulations and procedures to aviation-related businesses.

There are direct transfer options with Embry-Riddle Aeronautical University, Metropolitan State College, St. Francis College, Southern Illinois University, Thomas Edison State College, and Florida Institute of Technology. Although many graduates transfer to four-year colleges, graduates also enter the private sector in entry-level management positions with manufacturers, airline authorities, airport service operations, commuter air services, and corporate flight operations.

Students may study full-time or part-time. Most courses are offered during the day and evening. Admission to the program requires a high school diploma or its equivalent with two years of high school math.

DEGREE CURRICULUM

2021-2022 Academic Year

AVI.MGMT.AS
CIP 490104

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
AVI 101	Aerospace Development (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
BUS 101	Introduction to Business (3/0)	3	
CSW 100	College Success and Personal Wellness (2/0)	2	
	• Some exemptions apply. Consult academic advisor for details.		✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
ENG 101	English Composition I (3/0)	3	
PSY 101	Introduction to Psychology (3/0)	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

ACC 111	Principles of Financial Accounting (4/0)	4
AVI 102	Aviation Transportation (3/0)	3
ENG 102	English Composition II (3/0)	3
MAT 146	Pre-Calculus (4/0)	4
MKT 101	Principles of Marketing (3/0)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

ACC 112	Principles of Managerial Accounting (4/0)	4
BUS 210	Principles of Management (3/0)	3
ECO 111	Macroeconomics (3/0)	3
PHY 111	Physical Science Concepts (2/2)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

		Humanities general education elective	3

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

AVI 208	Aviation Seminar (1/0)	1
BUS 107	Business Law I (3/0)	3
CMN 111	Speech: Human Communication (3/0)	3
ECO 112	Microeconomics (3/0)	3
IST 101	Computer Concepts with Applications (2/2)	3

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

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NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

Biology
Associate in Science Degree in Liberal Arts and Sciences (A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Biology** option of the Liberal Arts and Sciences program primarily prepares graduates for transfer into the junior year of programs such as ecology, conservation, biology, microbiology, pharmacy, forestry, entomology, genetics, biotechnology, and preprofessional fields of medicine and dentistry. Biology graduates have transferred to colleges throughout Pennsylvania, New Jersey and the northeast, including Rider University, Temple University, Cornell University, Rutgers University, Stockton College, The College of New Jersey, and Rowan University.

Graduates earning a four-year degree have been employed by various research institutes and industries. Others have successfully completed medical, dental, chiropractic, pharmaceutical, physical/occupational therapy, physician's assistant, veterinary medicine, and other graduate programs.

The biology facilities include specially equipped laboratories for microbiology, genetics/molecular biology, and anatomy/physiology. Students learn a wide variety of investigative techniques, including microscopy, spectrophotometry, and gel electrophoresis. Real-life systems are studied through field trips to sites in the New Jersey Pinelands and elsewhere. A special honors sequence affords eligible students the opportunity to participate in a research project under the supervision of faculty at nearby Rider University, Monmouth University, or Princeton University as well as other research institutions.

PROGRAM OUTCOMES

- Demonstrate an understanding of the fundamental principles, concepts, and terminology of biology;
- Explain the structures and fundamental processes of life at molecular, cellular, and organismal levels;
- View the living world with greater understanding, insight, and appreciation as it relates to the field of biology and contemporary problems and issues;
- Demonstrate the ability to apply the scientific method of inquiry to gather and use information for the purposes of critical thinking, information analysis, and problem solving;
- Exhibit proficiency in the laboratory and in the field by using standard equipment and measurement and observation techniques that allow one to gather, analyze, and interpret qualitative data.

Most courses may be completed through part-time study in the evening. Course selection and program of study must be approved by an academic advisor.

Admission to the Biology option requires a high school diploma or equivalent with at least one year of science (biology, chemistry, or physics) and two years of academic mathematics. Successful completion of the Biology option results in the award of the Associate in Science degree in Liberal Arts and Sciences.

SEE ALSO:

[Plant Science](#) degree program

The Biology degree with a **Pre-Medicine, Pre-Veterinarian, Pre-Dentistry** concentration primarily prepares graduates for transfer into the junior year of programs such as pre-medicine, pre-veterinarian, pre-dentistry, physician assisting, biotechnology, microbiology, molecular biology, genetic or biochemical engineering, pharmacy and physical therapy.

Students follow the standard Biology curriculum (above), with course substitutions as follows, for a total of 60 credits.

DEGREE CURRICULUM
2021-2022 Academic Year
BIO.AS
CIP 240101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
BIO 101	General Biology I (3/3)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CHE 101	General Chemistry I (3/3)	4	
CSW 100	College Success and Personal Wellness (2/0)	2	

- Some exemptions apply. Consult academic advisor for details.

ENG 101	English Composition I (3/0)	3
MAT 146	Pre-Calculus (4/0)	4

SECOND SEMESTER

BIO 102	General Biology II (3/3)	4
CHE 102	General Chemistry II (3/3)	4
CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
ENG 102	English Composition II (3/0)	3

THIRD SEMESTER

BIO	—	Biology elective	4

- Select from BIO 201, 202, 203, 204, 206, 208.

—	—	Technical elective	4

- Select from any 200-level Biology (BIO) or Chemistry (CHE) course; COS 101, 102; MAT 151, 152, 201, 252; PHY 101, 102, 115, 215.

—	—	Humanities general education elective	3
—	—	Social Science general education elective	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

BIO	—	Biology elective	4

- Select from BIO 201, 202, 203, 204, 206, 208.

—	—	Technical elective	4

- Select from any 200-level Biology (BIO) or Chemistry (CHE) course; COS 101, 102; MAT 151, 152, 201, 252; PHY 101, 102, 115, 215.

—	—	Technical elective	4

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

	• Select from any 200-level Biology (BIO) or Chemistry (CHE) course; COS 101, 102; MAT 151, 152, 201, 252; PHY 101, 102, 115, 215.			
—	—	Social Science or Humanities general education elective	3	
			60	

NOTE: Biology majors must earn a minimum grade of C in all BIO courses, including those applied as Technical electives.

DEGREE CURRICULUM

2020-2021 Academic Year

BIO.AS
CIP 240101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (Foundations courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
BIO 101	General Biology I (3/3)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CHE 101	General Chemistry I (3/3)	4	
ENG 101	English Composition I (3/0)	3	
MAT 151	Calculus I for the Mathematical and Physical Sciences (4/0)	4	

SECOND SEMESTER

BIO 102	General Biology II (3/3)	4
CHE 102	General Chemistry II (3/3)	4
ENG 102	English Composition II (3/0)	3
MAT 152	Calculus II for the Mathematical and Physical Sciences (4/0)	4

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

BIO 201	Microbiology (3/3)	4
CHE 201	Organic Chemistry I (3/4)	5
CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
— —	Social Science general education elective	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

BIO 208	Genetics (3/3)	4
CHE 202	Organic Chemistry II (3/4)	5
— —	Humanities general education elective	3
— —	Social Science or Humanities general education elective	3

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

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NOTE: Biology majors must earn a minimum grade of C in all BIO courses.

Building Construction Technology

Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The certificate program in **Building Construction Technology** is an opportunity for those working in the varied fields of construction, or construction documentation, to update their knowledge and skills in building construction operations, management, or construction office administration.

Students may study full-time or part-time. Admission to the program requires a high school diploma or its equivalent with one year of algebra.

PROGRAM OUTCOMES

- Understand drafting and design standards used in the building construction industry;
- Demonstrate knowledge of materials and methods of construction;
- Identify established surveying procedures to layout projects in accordance with construction document drawings and site information.

CERTIFICATE CURRICULUM

2021-2022 Academic Year
BLDG.CONSTR.CERT
CIP 150101

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
FIRST SEMESTER (Fall)		
CIV 104	Applied Mechanics (3/0)	3
DRA 217	Structural Steel Design and Drafting (2/3)	3
ENG 101	English Composition I (3/0)	3
MAT 115	Algebra and Trigonometry I (3/0)	3

- Students who do not place at this mathematics level must meet with their program advisor to develop an academic plan.

Code	Course (lecture/lab hours)	Credits
SECOND SEMESTER (Spring)		
CIV 101	Surveying I (2/3)	3
CIV 228	Reinforced Concrete Design (2/3)	3
CIV 237	Mechanics of Materials Fundamentals (3/3)	4
DRA 190	Introduction to Computer-Aided Drafting (1/2)	2
THIRD SEMESTER (Summer)		
BCT 232	Construction Estimating (3/0)	3
BCT 234	Construction Contracts and Specifications (3/0)	3
		30

Business Administration

Associate in Science Degree (A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Business Administration** program is designed for the student who plans to earn a business-related baccalaureate degree at a four-year college or university. Eighty percent of graduates successfully transfer to four-year colleges. Direct transfer options accommodate transfer to many in-state and out-of-state institutions.

Graduates of the program demonstrate competencies in introductory courses in accounting, business law, economics, and statistics as well as other business-related courses consistent with acceptance into junior status at a four-year college.

Graduates have transferred to colleges and universities nationwide, including Rutgers University, Rider University, The College of New Jersey, Drexel University, Temple University, and New York University. The Rutgers Business School has an additional articulation agreement for MCCC Honors students.

PROGRAM OUTCOMES

- Formulate an analytical and quantitative approach to problem solving;
- Demonstrate an understanding of the role of U.S. business in a globalized society;
- Acquire effective business communication skills, including computer literacy;
- Develop the foundation necessary to continue studies in fields such as economics, finance, accounting, management, marketing, and human resources;
- Use the economic way of thinking in everyday life.

Students may study full-time or part-time. Business Administration students who cannot attend on weekdays can complete their degree requirements with evening, weekend, and MercerOnline classes offered with Mercer's Flexible Learning option.

Many core courses required for the Business Administration degree are offered on weekends, most in an accelerated eight-week format. Students can accelerate their degree completion by taking two eight-week courses instead of one 14-week course during a semester. Students attending weekend classes on an accelerated basis along with night and distance learning courses could potentially finish their Business Administration degree within the same time frame as a full-time traditional student.

Admission to the Business Administration program requires a high school diploma or its equivalent. A strong background in mathematics is very helpful.

Students interested in pursuing a Supply Chain Management or Finance major at Rider University upon graduation from MCCC should consider the Rider/MCCC Dual Admissions program and consult their academic advisor or transfer counselor upon beginning the Business Administration program for requirements unique to Rider.

SEE ALSO:

Business Studies degree program

DEGREE CURRICULUM
2021-2022 Academic Year
BUS.ADM.AS
CIP 520201

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CSB 100	College Success and Wellness for Business (2/0)	2	✓ Meet with your faculty advisor to complete an academic plan, including a path for mathematics requirements. See MAT 146 footnote.
	• Some exemptions apply. Consult academic advisor for details.		
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
BUS 107	Business Law I (3/0)	3	
IST 101	Computer Concepts with Applications (2/2)		
	OR	3	✓ Contact professors with questions and use their
	• Select in consultation with an academic advisor and your intended transfer institution, which may require IST 102.		

IST 102	Computer Concepts with Programming (2/2)		
— —	Humanities general education elective	3	

SECOND SEMESTER

MAT 146	Pre-Calculus (4/0)	4	

- Students who are not college-ready in mathematics should meet with an advisor to develop an academic plan no later than the first semester. Math classes in preparation for MAT 146 should be taken as soon as possible.

ACC 111	Principles of Financial Accounting (4/0)	4	
CMN 111	Speech: Human Communication (3/0)		
	OR	3	
CMN 112	Public Speaking (3/0)		
ENG 102	English Composition II (3/0)	3	
— —	Lab Science general education elective	3	

- BIO 114 not acceptable. Select in consultation with an academic advisor and your intended transfer institution.

✓ Apply for financial aid by May 1.

✓ Keep in contact with each professor and your faculty advisor.

✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Develop team and leadership skills by getting involved in activities and clubs.

THIRD SEMESTER

ACC 112	Principles of Managerial Accounting (4/0)	4
BUS 205	Business Statistics I (3/0)	3
BUS 210	Principles of Management (3/0)	3

- BUS 218, 244, or MKT 101 are acceptable substitutes.

ECO 111	Macroeconomics (3/0)	3
MAT 151	Calculus I for the Mathematical and Physical Sciences (4/0)	4

- Consult your intended transfer institution to determine if MAT 149 is an acceptable substitute.

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

✓ Consider transfer institutions and ask professors for recommendations.

✓ Stay involved in activities and clubs.

FOURTH SEMESTER

BUS 206	Business Statistics II (3/0)	3
BUS 230	Global Environment of Business (3/0)	3
ECO 112	Microeconomics (3/0)	3
— —	General Education elective	3

- Select course from the following general education categories: Social Science (excluding ECO 103), Humanities, Historical Perspective, Diversity and Global Perspective.

✓ Keep in contact with each professor and your faculty advisor.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

✓ Apply to desired transfer institutions.

✓ Stay involved in activities and clubs.

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NOTE: Rutgers Business School - New Brunswick requires IST 102 and MAT 151.

Business Administration students who would like to pursue future studies in international business should consider the Business Administration concentration in **Global Business** (BUS.ADM.GLB.AS). This option enables students to tailor their general education electives toward international topics.

Since completion of this curriculum demonstrates commitment to an international business specialization, students pursuing this concentration have an advantage when applying to a four-year international business program. A.S. degree coursework emphasizing the issues of a globalized world provides students with the necessary foundation to pursue further studies in international business at a four-year institution.

DEGREE CURRICULUM
2021-2022 Academic Year
BUS.ADM.GLB.AS
CIP 520201

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CSB 100	College Success and Wellness for Business (2/0) • Some exemptions apply. Consult academic advisor for details.	2	✓ Meet with your faculty advisor to complete an academic plan, including a path for mathematics requirements. See MAT 146 footnote. ✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
CMN 111	Speech: Human Communication (3/0)		
	OR	3	
CMN 112	Public Speaking (3/0)		
ENG 101	English Composition I (3/0)	3	

		Historical Perspective or Humanities general education elective	3
		• Select from ENG 203, 204, 214; HIS 101, 102, 112, 113, 218; REL 102.	
		World Language general education elective	3
		• It is highly recommended that both electives be in the same language.	

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

BUS 230	Global Environment of Business (3/0)	3
ENG 102	English Composition II (3/0)	3
MAT 146	Pre-Calculus (4/0)	4
	Lab Science general education elective	3
	World Language general education elective	3

• It is highly recommended that both electives be in the same language.

✓ Apply for financial aid by May 1.

✓ Keep in contact with each professor and your faculty advisor.

✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Develop team and leadership skills by getting involved in activities and clubs.

THIRD SEMESTER

ACC 111	Principles of Financial Accounting (4/0)	4
BUS 205	Business Statistics I (3/0)	3
ECO 111	Macroeconomics (3/0)	3
IST 101	Computer Concepts with Applications (2/2)	
	OR	3
IST 102	Computer Concepts with Programming (2/2)	
MAT 151	Calculus I for the Mathematical and Physical Sciences (4/0)	
	OR	4
MAT 149	Calculus (4/0)	

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

✓ Consider transfer institutions and ask professors for recommendations.

✓ Stay involved in activities and clubs.

FOURTH SEMESTER

ACC 112	Principles of Managerial Accounting (4/0)	4
BUS 206	Business Statistics II (3/0)	3
ECO 112	Microeconomics (3/0)	3
— —	Historical Perspective or Humanities general education elective	3
	• Select from ENG 203, 204, 214; HIS 101, 102, 112, 113, 218; REL 102.	

✓ Keep in contact with each professor and your faculty advisor.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

✓ Apply to desired transfer institutions.

✓ Stay involved in activities and clubs.

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NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

Students intending to pursue their bachelor's degree in sports management should consider Business Administration with a concentration in **Sports Management** (BUS.ADM.SPRTS.AS), completing a degree program that includes courses in accounting, management, marketing, economics, and computer applications.

PROGRAM OUTCOMES

- Demonstrate critical thinking and problem-solving skills;
- Demonstrate knowledge of technology and its use in sports management;
- Demonstrate a concern for the societal issues involved in sports management;
- Demonstrate knowledge of management, legal issues, and sports marketing.

DEGREE CURRICULUM
2021-2022 Academic Year
BUS.ADM.SPRTS.AS
CIP 520201

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CMN 111	Speech: Human Communication (3/0)		✓ Meet with your faculty advisor to complete an academic plan, including a path for mathematics requirements. See MAT 146 footnote.
	OR	3	
CMN 112	Public Speaking (3/0)		
CSB 100	College Success and Wellness for Business (2/0)	2	✓ Use your online tools: Check your MercerMail daily, utilize features of Office
	• Some exemptions apply. Consult academic advisor for details.		

[ENG 101](#)	English Composition I (3/0)	3
[IST 101](#)	Computer Concepts with Applications (2/2)	
	OR	3
[IST 102](#)	Computer Concepts with Programming (2/2)	
— —	[Diversity and Global Perspective or Humanities general education elective](#)	3

SECOND SEMESTER

[ACC 111](#)	Principles of Financial Accounting (4/0)	4
[BUS 210](#)	Principles of Management (3/0)	3
[ENG 102](#)	English Composition II (3/0)	3
[MAT 146](#)	Pre-Calculus (4/0)	4
[PSY 101](#)	Introduction to Psychology (3/0)	3

365, and get to know [Student Planning](#).

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Take advantage of [Learning Centers](#) or [Online Tutoring](#) to support your studies and assignments.

✓ Apply for [financial aid](#) by May 1.

✓ Keep in contact with each professor and your faculty advisor.

✓ Take advantage of [Learning Centers](#) or [Online Tutoring](#) to support your studies and assignments.

✓ Apply for Continuing Student scholarships at [www.mccc.edu/m-scholarships](#).

✓ Begin attending college transfer events and visit campuses. Be sure to visit the [Transfer Services](#) and [Career Services](#) offices to get to know how the transfer process works and to explore career options.

✓ Develop team and leadership skills by getting

involved in activities and clubs.

THIRD SEMESTER

ACC 112	Principles of Managerial Accounting (4/0)	4	
BUS 102	Introduction to Sports Management (3/0)	3	
CIS 105	Excel Basics (1/0)	1	
ECO 111	Macroeconomics (3/0)	3	
— —	Lab Science general education elective	3	

- Select from the course categories of BIO, CHE, or PHY.

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

✓ Consider transfer institutions and ask professors for recommendations.

✓ Stay involved in activities and clubs.

FOURTH SEMESTER

BUS 205	Business Statistics I (3/0)	3	
ECO 112	Microeconomics (3/0)	3	
MKT 106	Introduction to Sports Marketing (3/0)		
	OR	3	
MKT 101	Principles of Marketing (3/0)		
SOC 101	Introduction to Sociology (3/0)	3	
— —	Humanities general education elective	3	

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✓ Keep in contact with each professor and your faculty advisor.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

✓ Apply to desired transfer institutions.

✓ Stay involved in activities and clubs.

NOTE: Upon beginning this program, students planning to transfer to the Rutgers University Sports Management program should consult their academic advisor or transfer counselor for requirements unique to Rutgers.

Business Studies

Associate in Applied Science Degree in Business Management (A.A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

Business Studies, a career and non-transferable degree program, provides opportunities for students to prepare for a wide variety of careers in business.

Students have the option of pursuing a general degree in Business Studies or selecting one of four concentrations, each comprised of 15 credits and designed to prepare students for specialty areas: Business Systems, Entrepreneurship, Management, Software Professional. Students should contact the program coordinator for advisement.

PROGRAM OUTCOMES

- Use effective verbal and written communication in conducting business;
- Analyze/resolve problems common to entry-level business positions;
- Apply management skills in a variety of business functions;
- Comprehend how the global economy and international events affect domestic and international business decisions;
- Understand basic accounting statements and their role in managing a business;
- Identify unethical behavior in a business setting and formulate appropriate action;
- Understand, analyze, and discuss current economic events and problems;
- Acquire computer literacy and exposure to hardware, software, networking, databases, and ethical issues;
- Apply financial concepts and tools to achieve personal goals.

Students may study full-time or part-time. Admission to the Business Studies program requires a high school diploma.

Business Studies students interested in pursuing bachelor's degree studies in labor or management should consider the Rutgers School of Labor and Management program on the MCCC campus.

SEE ALSO:
Business Administration degree program
Small Business Management certificate program

Concentrations

The **Business Systems** concentration (BUS.STUD.SYST.AAS) prepares students for positions as help desk specialists, general office managers, or PC systems administrators in small to mid-sized firms. Students focus their degree based on individual professional needs, building upon the competencies gained from the general Business Studies program.

The **Entrepreneurship** concentration (BUS.STUD.ENTR.AAS) prepares students to own a small business. Students interested in forming their own enterprise, taking on a franchise, or purchasing an existing small business would benefit from this concentration, building upon the competencies gained from the general Business Studies program.

The **Management** concentration (BUS.STUD.MGMT.AAS) prepares students for positions as general office managers, retail sales managers, or supervisors in mid- to large-sized firms. Students focus their degree based on individual professional needs, building upon the competencies gained from the general Business Studies program.

The **Software Professional** concentration (BUS.STUD.SFTW.AAS) prepares students for entry-level positions as general office managers, administrative professionals, executive assistants, office support staff, or supervisors in small to mid-sized firms. Students focus their degree based on individual professional needs, building upon the competencies gained from the general Business Studies program.

DEGREE CURRICULUM
2021-2022 Academic Year
BUS.STUD.AAS
BUS.STUD.SYST.AAS
BUS.STUD.ENTR.AAS
BUS.STUD.MGMT.AAS
BUS.STUD.SFTW.AAS
CIP 520101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
BUS 101	Introduction to Business (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CIS 105	Excel Basics (1/0)	1	
CMN 111	Speech: Human Communication (3/0)		
	OR	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
CMN 112	Public Speaking (3/0)		
CSB 100	College Success and Wellness for Business (2/0)	2	
	• For Business Studies majors taking classes exclusively online, CSW 100 is an acceptable substitute. Some exemptions apply. Consult academic advisor for details.		✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
ENG 101	English Composition I (3/0)	3	
MAT 125	Elementary Statistics I (3/0)	3	
SECOND SEMESTER			
ACC 106	Office Accounting I (3/0)	3	✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.
BUS 209	Business Communications (3/0)	3	
BUS 210	Principles of Management (3/0)	3	✓ Apply for financial aid by May 1.
BUS 230	Global Environment of Business (3/0)	3	
— —	General Education elective	3	✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.
	• Select course from the following general education categories: Social Science, Humanities, Diversity and Global Perspective.		

THIRD SEMESTER

BUS 109	Personal Finance (3/0)	3
ECO 103	Basic Economics (3/0)	3
ENG 102	English Composition II (3/0)	3
IST 101	Computer Concepts with Applications (2/2)	
	OR	3
IST 140	The Internet and Computer Technology (2/2)	
— —	General Education elective	3

- Select course from the following general education categories: Social Science, Humanities, Diversity and Global Perspective.

FOURTH SEMESTER

Code	Course	Credits	
— —	**Concentration/Business electives**	3	✓ Get ready to start your career! Begin the job application process.
— —	• If pursuing a **general degree in Business Studies**, choose four business electives from the options below.	3	
— —	• If pursuing a **Business Studies concentration**, select three electives from either the Business Systems, Entrepreneurship, Management, or Software Professional concentrations (lower on page) and one of the following courses for a total of four electives.	3	✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.
— —	ACC 207; BUS 105, 107, 202, 225, 239, 240; CIS 112, 173, 175, 182; IST 140; MKT 101, 230; NET 102, 103, 104; OST 219	3	
BUS 225	Employee Motivation and Leadership (3/0)		
	OR	3	
	• Capstone course, to be taken as final course in the curriculum.		
BUS 239	Entrepreneurship (3/0)		
		60	

Code	Course (lecture/lab hours)	Credits
Business Systems CONCENTRATION electives		
CIS 173	PC Applications: Database (2/2)	3
CIS 175	PC Applications: Spreadsheets (2/2)	3
NET 102	Introduction to PC Hardware and Software (2/3)	3
NET 103	IT Essentials (2/3)	3
NET 104	Fundamentals of Computer Networks (2/2)	3

Entrepreneurship CONCENTRATION electives

ACC 207	Computerized Accounting (2/2)	3
BUS 107	Business Law (3/0)	3
BUS 202	Consumer Orientation (3/0)	3
BUS 239	Entrepreneurship (3/0)	3
MKT 101	Principles of Marketing (3/0)	3

Management CONCENTRATION electives

BUS 107	Business Law (3/0)	3
BUS 202	Consumer Orientation (3/0)	3
BUS 225	Employee Motivation and Leadership (3/0)	3
BUS 240	Human Resource Management (3/0)	3
MKT 101	Principles of Marketing (3/0)	3
MKT 230	Principles of Retailing (3/0)	3

Software Professional CONCENTRATION electives

CIS 173	PC Applications: Database (2/2)	3
CIS 175	PC Applications: Spreadsheets (2/2)	3
CIS 182	PC Applications: Presentations (2/2)	3
IST 140	The Internet and Computer Technology (2/2)	3
OST 219	Word Processing Concepts and Applications (2/2)	3

Catering Management

Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Catering Management** Certificate of Proficiency prepares individuals to operate their own catering/ banquet business and to work effectively in the profession. Graduates have skills to coordinate the various culinary, artistic and business activities required to be successful in the catering industry. The program enables students to create successful menus for their customers, together with the ability to purchase and price supplies and services profitably.

Admission to the program requires a high school diploma or its equivalent.

PROGRAM OUTCOMES

- Demonstrate a wide variety of culinary skills;
- Develop cost-effective, customer-accepted menus;
- Plan and organize a catered activity;
- Apply safe and sanitary practices in preparing and serving culinary creations;
- Assess the needs of and have the ability to purchase food and non-food supplies for the catering operation;
- Practice legal and financial management aspects of catering;
- Create high-quality food products with artistic designs;
- Prepare a feasibility study and business plan;
- Demonstrate management and organizational skills.

SEE ALSO:

Small Business Management certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year
CATER.MGMT.CERT
CIP 120504

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ACC 111	Principles of Financial Accounting (4/0)	4
HOS 100	Hospitality Success Skills (1/0)	1
HOS 101	Food Preparation I (1/4)	3
HOS 111	Culinary Math (1/0)	1
HOS 118	Sanitation and Safety in Food Service Operations (2/0)	2
HOS 203	Hospitality Purchasing (3/0)	3
HOS 267	Event Planning (3/0)	3
BUS 239	Entrepreneurship (3/0)	3
ENG 101	English Composition I (3/0)	3
HOS 102	Food Preparation II (1/4)	3
HOS 115	Food and Culture (2/2)	3
HOS 210	Applied Kitchen Skills – Cafe (1/4)	3
HOS 287	Hotel/Restaurant Management Internship	1

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Chemistry

Associate in Science Degree in Liberal Arts and Sciences (A.S.)

The **Chemistry** option of the Liberal Arts and Sciences program prepares students for transfer into baccalaureate programs leading to careers in fields such as pharmaceuticals, industrial chemistry, chemical engineering, chemical sales and service, environmental technology, food science, medicine, and education.

Chemistry graduates have transferred to institutions throughout the region, including Rutgers University, Rider University, The College of New Jersey, Temple University, Rowan University, and more. Graduates earning a four-year degree have secured employment in local laboratories including those of Bristol-Myers Squibb, Johnson & Johnson, New Jersey State Police, Medical Diagnostics Laboratory (MDL), Genesis Biotechnology Group (GBG), and elsewhere.

Students routinely use electronic balances; IR, UV, visible and NMR spectrophotometers; pH meters; GC; calorimeters; lasers; and other electronic devices in the laboratory. Computer applications for data collection and analysis are introduced in the General Chemistry sequence. Other software packages assist students with the mastery of concepts and problem-solving skills.

Second-year courses introduce specialized instrumentation for chromatographic separations and spectroscopic identification of compounds using gas chromatographs and infrared spectrophotometer. MCCC and Rider University are principal partners in a National Science Foundation project to give Mercer students Internet access to Rider's 300Mz FT-NMR for spectral analyses. An honors sequence allows students to conduct research under the supervision of Rider University or Princeton University faculty as well as at other research institutions.

PROGRAM OUTCOMES

- Demonstrate an understanding of the fundamental principles, concepts, and terminology of chemistry;
- Develop a working knowledge of chemical principles and methods including problem solving, analytical reasoning, and laboratory skills;
- Utilize critical thinking, qualitative, and quantitative reasoning skills to organize, evaluate, and interpret data, expressing the results in a clearly written laboratory report or oral presentation;
- Conduct literature searches and communicate findings orally and in writing;

- Plan, execute, and interpret an experiment according to the Scientific Method using proper scientific and laboratory safety procedures and maintaining an accurate and complete laboratory notebook.

Part-time evening study is encouraged for those who are currently employed. Course selection and program of study must be approved by an academic advisor.

Admission to the Chemistry option requires a high school diploma or equivalent with at least one year of science (biology, chemistry, or physics) and two years of academic mathematics. Students who complete the Chemistry option earn the Associate in Science degree in Liberal Arts and Sciences.

DEGREE CURRICULUM
2021-2022 Academic Year
CHEM.AS
CIP 240101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ENG 101	English Composition I (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CHE 101	General Chemistry I (3/3)	4	
CMN 111	Speech: Human Communication (3/0)		
	OR	3	
CMN 112	Public Speaking (3/0)		✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
— —	Technical elective	4	

	• Select from any 200-level Biology (BIO), Chemistry (CHE), or Physics (PHY) course; BIO 101, 102; COS 101, 102; PHY 101, 102, 115.		✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

ENG 102	English Composition II (3/0)	3	✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.
CHE 102	General Chemistry II (3/3)	4	
— —	Technical elective	4	✓ Apply for financial aid by May 1.
	• Select from any 200-level Biology (BIO), Chemistry (CHE), or Physics (PHY) course; BIO 101, 102; COS 101, 102; PHY 101, 102, 115.		✓ Contact professors with questions and use their office hours to develop a connection.
— —	Humanities general education elective	3	✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

CHE 201	Organic Chemistry I (3/4)	5	✓ Keep in contact with each professor and your faculty advisor. Make sure
MAT 151	Calculus I for the Mathematical and Physical Sciences	4	

—	—	Technical elective	4

- Select from any 200-level Biology (BIO), Chemistry (CHE), or Physics (PHY) course; BIO 101, 102; COS 101, 102; PHY 101, 102, 115.

—	—	Social Science general education elective	3

you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

CHE 202		Organic Chemistry II (3/4)	5
MAT	—	Mathematics elective	4

- Select from MAT 152, 201, 208, 251, 252.

—	—	Technical elective	4

- Select from any 200-level Biology (BIO), Chemistry (CHE), or Physics (PHY) course; BIO 101, 102; COS 101, 102; PHY 101, 102, 115.

—	—	Social Science or Humanities general education elective	3
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✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

NOTE: Chemistry majors must earn a minimum grade of C in all CHE courses.

Civil Engineering Technology

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

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Civil Engineering Technology** program prepares students for employment in field and office positions with architects, engineers, and government agencies as engineering aides; construction, highway or materials technicians; transit operators; or estimators.

PROGRAM OUTCOMES

- Assist engineers in the preparation of designs for highways and for steel and concrete buildings and bridges;
- Function as a first-line supervisor at a construction site;
- Inspect highways during construction to ensure compliance with applicable specifications;
- Perform route/construction surveys using survey equipment and methods;
- Serve as a laboratory technician in the testing and analysis of various construction materials;
- Serve as a salesperson/technician in supplying construction materials;
- Prepare various construction and civil engineering drawings, both manually and with a computer-based drafting system.

MCCC is located near the central offices of many New Jersey governmental agencies. Graduates have found employment in county, state, and municipal departments of engineering and with many local civil engineering consultants. Cooperative education opportunities may be available.

Admission requires a high school diploma or its equivalent with one year of algebra. Students may study full-time or part-time, but some required courses may be offered only during evening hours.

Graduates wishing to pursue studies leading to a bachelor's degree can transfer into the junior year at many institutions. Temple University, New Jersey Institute of Technology (NJIT), Pennsylvania State University, and Fairleigh Dickinson University are among the institutions accepting Mercer graduates.

SEE ALSO:
Engineering Science degree program
Engineering Science certificate program

DEGREE CURRICULUM

2021-2022 Academic Year
ENGR.CIV.AAS
CIP 150201

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CIV 105	Introduction to Engineering (1/0)	1	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
DRA 190	Introduction to Computer-Aided Drafting (1/2)	2	
ENG 101	English Composition I (3/0)	3	
MAT 146	Pre-Calculus (4/0)	4	
— —	Science elective	4	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.

- This requirement may be satisfied with PHY 111 plus one other Science general education elective. Students planning to earn a bachelor's degree should take PHY 101 and 102 to satisfy the requirement.

✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

CIV 101	Surveying I (2/3)	3
CIV 106	Mechanics (3/0)	3
ENG 112	English Composition II With Speech (3/0)	3
MAT 151	Calculus I for the Mathematical and Physical Sciences (4/0)	4
— —	Science elective	4

- This requirement may be satisfied with PHY 111 plus one other Science general education elective. Students planning to earn a bachelor's degree should take PHY 101 and 102 to satisfy the requirement.

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

CIV 223	Fluid Mechanics (3/3)	4
CIV 227	Structural Steel Design (2/3)	3
CIV 229	Mechanics of Materials (3/3)	4
— —	Social Science or Humanities general education elective	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting

FOURTH SEMESTER

CIV 102	Surveying II (2/3)	3
CIV 216	Highway Engineering (2/2)	3
CIV 228	Reinforced Concrete Design (2/3)	3
IST 102	Computer Concepts with Programming (2/2)	
	OR	3
IST 109	Introduction to Programming (2/2)	
— —	General Education elective	3

- Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

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✔ Get ready to start your career! Begin the job application process.

✔ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

Commercial Photography

Certificate of Achievement

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Commercial Photography** micro-credential program is designed for those seeking to expand their skills in photography for personal growth, employment advancement, or to start their own portrait and product photography studio, or editorial and event photography business.

PROGRAM OUTCOMES

- Demonstrate proficiency with digital cameras;
- Implement effective strategies for image retouching using Adobe software;
- Integrate different techniques and approaches for editorial, portrait, product, and event photography;
- Develop a business model for your entity, including contracts, usage rights, and billing.

Successful completion of credits from this Certificate of Achievement can be applied toward the Photography degree or Certificate of Proficiency programs.

Admission to the program requires readiness for college-level English and Math and approval from the program coordinator. Students may receive credit for previous training in a skills area by applying for credit by examination, credit by experience, and/or transfer credit as evaluated and approved by the program coordinator.

SEE ALSO:
Photography degree program
Photography Certificate of Proficiency program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

PHOTO.CRT
CIP 500101

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
DMA 110	Digital Imaging I (1/4)	3
PHO 103	Digital Photography I (2/3)	3
PHO 202	Studio Photography (1/4)	3
PHO 203	Photography II (1/4)	3
PHO 251	Documentary Photography (1/4)	3
		15

Communication

Associate in Arts Degree in Liberal Arts and Sciences (A.A.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Communication** program prepares students to transfer into a baccalaureate degree program. Designed to explore both theory and the development of practical skills, the core curriculum includes courses in oral communication, mass media, and media ethics as well as media production courses that introduce students to the creation process for audio and visual messages.

Students then choose electives that will further their interest of study. Choices to explore career paths in writing and communication processes are offered as well as courses in technical production.

PROGRAM OUTCOMES

- Analyze, evaluate, and critique the organizational design and delivery of all forms of communication;
- Create, develop, and synthesize messages that successfully deliver oral, electronic, and written communication to diverse multi-cultural audiences;
- Demonstrate effective techniques to manage communication anxiety and enhance message delivery through oral performance;
- Identify the nature and unique characteristics of intrapersonal, interpersonal, intercultural, group, organizational, and mass communication;
- Analyze, evaluate, and discuss the issues and ethical situations created by mediated messages.

Colleges and universities that students have transferred to include New York University, Rider University, The College of New Jersey, Fairleigh Dickinson University, Montclair State University, The University of Maryland, Rowan University, William Paterson University, Rutgers University, Temple University, and Syracuse University.

SEE ALSO:
Communication: New Media degree program
Communication: Speech and Theatre degree program

DEGREE CURRICULUM

2021-2022 Academic Year
COMM.GEN.AA
CIP 240101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CMN 101	Mass Media (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CMN 141	Introduction to Studio Production (2/2)		
	OR	3	
CMN 151	Introduction to Radio (2/2)		
DMA 144	Internet Tools and Techniques (1/4)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
	• If course unavailable, select any Technology general education elective.		
ENG 101	English Composition I (3/0)	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
— —	Humanities general education elective	3	

SECOND SEMESTER

CMN 102	Media Issues and Ethics (3/0)	3
CMN 111	Speech: Human Communication (3/0)	
	OR Unselected course may not be applied as a Communication (CMN) elective.	3
CMN 112	Public Speaking (3/0)	
ENG 102	English Composition II (3/0)	3
MAT 125	Elementary Statistics I (3/0)	3
— —	Social Science general education elective	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

CMN 214	Issues in Intercultural Communication in the U.S. (3/0)	
	OR	3
CMN 215	Communication and Gender (3/0)	
CMN —	Communication elective Select from **writing electives** CMN 144, 161, ENG 131; **career-focused electives** CMN 122, 125, ENG 131; **media and production**	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

electives CMN 107, 141, 142, 146, 151, 153, 250; **general communication electives** CMN 201, 211, 214, 215.

ENG —	Humanities: Literature general education elective	3
HIS —	Historical Perspective general education elective	3
— —	Lab Science general education elective	3

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

CMN —	Communication elective Select from **writing electives CMN 144, 161, ENG 131; career-focused electives CMN 122, 125, ENG 131; media and production electives** CMN 107, 141, 142, 146, 151, 153, 250; **general communication electives** CMN 201, 211, 214, 215.	3
HIS —	Historical Perspective general education elective	3
MAT —	Mathematics elective Select any college-level MAT course. Students should consult the mathematics requirements of their intended transfer institution.	
	OR	3
— —	Science general education elective	
— —	Humanities: Aesthetic Appreciation general education elective	3
— —	Social Science general education elective	3

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✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

NOTE: Students must earn a minimum grade of C in all ENG and CMN courses to graduate.

Communication: New Media

Associate in Science Degree in Liberal Arts and Sciences (A.S.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **New Media** program prepares students for the rapidly developing field that combines traditional media such as photography, film, music, and spoken and written word with the interactive power of computer and communications technology.

Students who have traditionally pursued courses of study in journalism, public relations, advertising, and communications will find that this program substantially prepares them to enter the work force or transfer to communications programs at four-year universities. Coursework emphasizes the convergence of audio/video, graphic design, photography, and writing.

PROGRAM OUTCOMES

- Analyze and break down elements of story across multiple platforms;
- Write clear and concise stories that are suitable for multiple platforms;
- Demonstrate technical proficiency with various video and DSLR cameras;
- Demonstrate technical proficiency in a variety of multimedia software;
- Analyze, evaluate, critique, and create all forms of communication;
- Articulate and analyze complex ethical questions related to the development of new media;
- Perform a series of thinking tasks including speculation, analysis, synthesis, and abstract reasoning;
- Create a portfolio of convergence media projects suitable for securing employment in a new media workplace.

Graduates wishing to pursue studies leading to a bachelor's degree can transfer into the junior year at many institutions. Rider University, Temple University, Rutgers, and Pennsylvania State University are among the institutions that have accepted Mercer graduates.

The program may be pursued part-time or full-time. Some courses are offered during the afternoon and early evening. Students are required to attend some day classes in order to complete the program. Admission requires a high school diploma or its equivalent.

SEE ALSO:
Communication degree program

DEGREE CURRICULUM

2021-2022 Academic Year

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CMN 101	Mass Media (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CMN 111	Speech: Human Communication (3/0)		
	OR	3	
CMN 112	Public Speaking (3/0)		
CMN 142	Introduction to Field Production (2/2)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
ENG 101	English Composition I (3/0)	3	
PHO 103	Digital Photography I (2/3)	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

ADV 101	Advertising Design I (1/4)	3
CMN 102	Media Issues and Ethics (3/0)	3
CMN 146	Social Media Technologies (2/2)	3
ENG 131	Journalism I (3/0)	3
MAT 120	Mathematics for Liberal Arts (3/0)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

CMN 147	Introduction to Story (2/2)	3
CMN 153	Digital Audio Production I (2/2)	3
ENG 102	English Composition II (3/0)	3
HIS —	Historical Perspective general education elective	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

— —	Lab Science general education elective	3	✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

CMN 214	Issues in Intercultural Communication in the U.S. (3/0)		✓ Apply for financial aid by May 1.
	OR	3	
CMN 215	Communication and Gender (3/0)		✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.
DMA 145	Web Design I (1/4)	3	
— —	Humanities general education elective	3	✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.
— —	Science OR Technology general education elective	3	
— —	Social Science general education elective	3	

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Communication: Speech and Theatre

Associate in Arts Degree in Liberal Arts and Sciences (A.A.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Communication: Speech and Theatre** option of the Liberal Arts and Sciences program prepares students to transfer as juniors into bachelor of arts programs in theatre, speech, and communication. The major offers students a creative edge in the marketable field of communication by exposing them to creative training in the performing arts.

Students planning careers in communications should choose elective subjects which best meet their educational needs. All students should determine the requirements of the institution to which they wish to transfer.

PROGRAM OUTCOMES

- Independently interpret dramatic literature for performance;
- Use a variety of acting, movement, and vocal techniques to craft a performance;
- Conduct research in preparation for performing a role or a prepared or extemporaneous speech;
- Work collaboratively with administrative, artistic, and production staff;
- Create successful auditions and/or interviews by preparing materials and exhibiting professional conduct;
- Develop communicative competencies in physical presentation, vocal variety techniques, and anxiety management skills to deliver prepared or extemporaneous speeches;
- Develop effective interpersonal and intrapersonal communication skills.

Successful graduates of the Communication: Speech and Theatre option customarily transfer to four-year institutions such as Temple University, Rider University, The College of New Jersey, and Rutgers University, among others.

The program may be pursued part- or full-time. Theatre courses are offered during the afternoon and early evening. Students are required to attend some day classes in order to complete the program. Admission requires a high school diploma or its equivalent.

SEE ALSO:
Communication degree program
Theatre degree programs

DEGREE CURRICULUM

2021-2022 Academic Year
COMM.SPCH.THR.AA
CIP 240101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ENG 101	English Composition I (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
MAT 125	Elementary Statistics I (3/0)	3	
THR 101	Introduction to Theatre (3/0)	3	
THR 104	Fundamentals of Acting (2/2)	3	
— —	Social Science general education elective	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
	• ANT 101 and PSY 101 recommended.		✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
SECOND SEMESTER			
ENG 102	English Composition II (3/0)	3	

THR 105	Acting II: Principles of Characterization (2/2)	3
THR 210	Theatre History: Classical to Elizabethan (3/0)	3
HIS —	Historical Perspective general education elective	3

- HIS 112 and 113 recommended.

MAT —	Mathematics elective	3

- Select MAT 120 or 126 in consultation with an academic advisor.

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

CMN 101	Mass Media (3/0)	3
CMN 112	Public Speaking (3/0)	3
THR 212	Central Voices in World Drama (3/0)	3
HIS —	Historical Perspective general education elective	3

- HIS 112 and 113 recommended.

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

— —	Social Science general education elective	3	✓ Develop team and leadership skills by getting involved in activities and clubs.
	• ANT 101 and PSY 101 recommended.		

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

CMN 141	Introduction to TV Production (2/2)		✓ Apply for financial aid by May 1.
	OR	3	✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.
CMN 151	Introduction to Radio (2/2)		
DAN 101	Introduction to Dance and Culture (3/0)	3	
THR 217	Theatre Production (1/5)	3	✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.
— —	Lab Science general education elective	3	
	• Select from among the course categories of BIO (excluding BIO 114 and 115), CHE, or PHY.		
— —	Technology general education elective	3	
	• DMA 144 recommended.		
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NOTE: Students who forego the courses recommended above should select all other electives in consultation with an academic advisor in order to assure maximum transfer of credits.

Computer Information Systems

Associate in Science Degree in Information Systems (A.S.)
Certificate of Proficiency: Database Administration

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The associate degree in **Computer Information Systems**, based on guidelines from the Association for Computing Machinery, prepares students for transfer to business- or technically-oriented four-year degree programs at the junior level.

Careers for graduates from related four-year degree programs include business application programmer, business process specialist, database administrator, information systems analyst, network engineer, and system sales associate.

PROGRAM OUTCOMES

- Transfer to a four-year college as a junior;
- Explain, interpret, and develop computer information policies and procedures;
- Create, edit, and use printed and online technical documentation and literature;
- Understand business organizations and practices, and the role of information technology in organizations;
- Develop, describe, understand, and apply network protocols and technology;
- Determine the feasibility of a computer information system, estimate its cost, and manage its implementation;
- Design, program, implement, and document a computer application or website to install and implement computer systems;
- Work effectively individually and in workgroups to install and implement information systems;
- Communicate in written documents and in oral presentations in technical or business settings.

Admission requires a high school diploma or equivalent, two years of high school algebra, geometry, and computer literacy. Applicants must demonstrate competency in English composition, reading and mathematics as determined by placement testing. Students who are required to complete foundations courses must plan their curriculum with an academic advisor.

Mercer County Community College has articulation agreements for Information Systems graduates to transfer to Drexel University, Fairleigh Dickinson University, and NJIT. Other institutions that students have successfully transferred to include Rider University, Penn State, The University of Maryland, and The University of Delaware.

The Database Administration certificate of proficiency teaches the skills to manage and maintain database management systems (DBMS) software and advanced functionalities of Microsoft Excel to support administrative decision-making, including mainstream products

such as Oracle and Microsoft SQL Server. Students who demonstrate solid academic performance will be encouraged to complete the MCDBA core examination and Oracle certification exams.

SEE ALSO:
[Computer Networking and Technology](#) degree program
[Computer Science](#) degree program
[Computer Science](#) certificate program
[Computer Support Specialist](#) certificate program
[Cybersecurity](#) degree program
[Database Concepts and Skills Associate](#) certificate program
[IT System Analyst Associate](#) certificate program
[Mobile and Web Computing](#) certificate program
[Oracle SQL Programming and Database Design Specialist](#) certificate program
[Web Development](#) certificate program

DEGREE CURRICULUM
2021-2022 Academic Year
INFO.SYS.AS
CIP 110201

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ENG 101	English Composition I (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
MAT 151	Calculus I for the Mathematical and Physical Sciences • Or consult academic advisor if lower course level more appropriate.	4	
NET 102	Introduction to PC Hardware and Software (2/3)	3	
IST —	Computer Concepts requirement (2/2)	3	✓ Use your online tools: Check

- Select from IST 101 or 102.

— —	Humanities general education elective		3

SECOND SEMESTER

CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
ENG 102	English Composition II (3/0)	3
IST 110	Introduction to Python (2/2)	3
NET 104	Fundamentals of Computer Networks (2/2)	3
— —	Programming elective	3

- Select from IST 107, 109, or (with IST 109 prerequisite) 123. Consult academic advisor for COS 101 or IST 108 substitution.

THIRD SEMESTER

COS 102	Computer Science I (3/2)	4
ECO 111	Macroeconomics (3/0)	3
IST 256	Systems Analysis (2/2)	3
PHY 115	University Physics I (3/3)	4

- Consult academic advisor for PHY 101 substitution.

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

BUS 230	Global Environment of Business (3/0)	3
IST 251	Management of Computer Technology (2/2)	3
IST 253	Database Concepts (2/2)	
	OR	3
CIS 173	PC Applications: Database (2/2)	
— —	IST or NET elective (2/2)	3
— —	Social Science general education elective	3

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

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CERTIFICATE CURRICULUM
2021-2022 Academic Year
INFO.TECH.DB.CERT
CIP 521201

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ENG 101	English Composition I (3/0)	3
IST 109	Introduction to Programming (2/2)	3
IST 222	PL/SQL Programming (2/2)	3
IST 250	Decision Support Using MS Excel (3/2)	4
IST 253	Database Concepts (2/2)	3
IST 260	SQL Server Database Design (3/2)	4
IST 261	SQL Server System Administration (3/2)	4
IST 262	Oracle SQL (3/2)	4
	• Must be taken in sequence.	
IST 263	Database Administration I (3/2)	4
	• Must be taken in sequence.	
IST 264	Database Administration II (3/2)	4
	• Must be taken in sequence.	

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Computer Networking and Technology

Associate in Applied Science Degree in Information Technology (A.A.S.)
Certificate of Proficiency: Network Engineering Technology

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Computer Networking and Technology** associate degree and associated Network Engineering Technology certificate of proficiency, based on guidelines from the Association for Computing Machinery, prepare students for jobs that support computing in a networked environment. These include entry-level positions as PC technicians, network administrators, help desk specialists, technical support specialists, and customer service representatives. The A.A.S. degree may also prepare students for transfer to career-oriented B.S. degree programs in IT administration, network engineering, and computer system support.

PROGRAM OUTCOMES

- Pass industry certifications, including A+, NET+, Linux+, and Security+; Microsoft's MCTS, MCITP, MCSA, and MCSE; and Cisco's CCNA.
- Understand, configure, and install hardware and software, including Internet user software;
- Understand, describe, and apply network protocols and standards;
- Explain computing practices and procedures found in most organizations;
- Use printed and online technical documentation;
- Describe how the Internet works;
- Work effectively individually and in workgroups to install and implement information technology;
- Demonstrate written and oral communication skills.

Admission requires a high school diploma or its equivalent, one year of high school algebra, and computer literacy. Applicants must demonstrate competency in English composition, reading, and mathematics, as determined by placement testing. Students who are required to complete foundations courses must plan their curriculum with an academic advisor.

The A.A.S. in Computer Networking and Technology was not developed as a transfer curriculum; however, students have successfully transferred to, and completed bachelor's degrees at, several technically-oriented institutions including NJIT, Fairleigh Dickinson University, DeVry University, Drexel University, and Peirce College.

The Network Engineering Technology certificate of proficiency is intended to provide the technical material covered in the A.A.S. degree. Certificate coursework may be applied toward the A.A.S. degree.

SEE ALSO:

Computer Information Systems degree program
Computer Science degree program
Computer Science certificate program
Cybersecurity degree program
Database Administration certificate program
Mobile and Web Computing certificate program

DEGREE CURRICULUM

2021-2022 Academic Year
INFO.TECH.AAS
CIP 110201

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ENG 101	English Composition I (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.

✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.

✓ Take advantage of Learning Centers or Online |
NET 102	Introduction to PC Hardware and Software (2/3)	3	
NET 104	Fundamentals of Computer Networks (2/2)	3	
NET 120	Windows Desktop OS Administration (2/2)	3	
IST —	Computer Concepts requirement (2/2)	3	
	• Select from IST 101, 102, or in consultation with an academic advisor.		

SECOND SEMESTER

ENG 102	English Composition II (3/0)	3
MAT 125	Elementary Statistics I (3/0)	3
NET 103	IT Essentials (2/3)	3
NET 122	Windows Server OS Administration (2/2)	3
NET 130	Routing and Switching Essentials (2/2)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

ECO 111	Macroeconomics (3/0)	3
	• May be substituted with another Social Science general education elective.	
NET 124	Windows Network Infrastructure Administration (2/2)	3
NET 212	Introduction to Linux (2/2)	3
NET 230	Scaling Networks (2/2)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

NET 244	Network Defense and Countermeasures (2/2)	3	✓ Develop team and leadership skills by getting involved in activities and clubs.
			✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.
			✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

BUS 230	Global Environment of Business (3/0)	3	✓ Get ready to start your career! Begin the job application process.
	• May be substituted with another Diversity and Global Perspective general education elective.		✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.
NET 126	Windows Directory Service Administration (2/2)	3	
NET 239	Connecting Networks (2/2)	3	
NET 240	Network Security (2/2)	3	
— —	Social Science or Humanities general education elective	3	
		60	

NOTE: One or more NET courses may be substituted with acceptable IST, CIS, COS, EET or SST courses, in consultation with an academic advisor.

CERTIFICATE CURRICULUM

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ENG 101	English Composition I (3/0)	3
NET 102	Introduction to PC Hardware and Software (2/3)	3
NET 103	IT Essentials (2/3)	3
NET 104	Fundamentals of Computer Networks (2/2)	3
NET 120	Windows Desktop OS Administration (2/2)	3
NET 122	Windows Server OS Administration (2/2)	3
NET 124	Windows Network Infrastructure Administration (2/2)	3
NET 130	Routing and Switching Essentials (2/2)	3
NET 230	Scaling Networks (2/2)	3
NET 244	Network Defense and Countermeasures (2/2)	3
NET —	Program elective Select from NET 126, 212, 239, 240.	3
— —	General Education elective Select in consultation with an academic advisor. Students intending to apply certificate coursework toward the A.A.S. degree should select from Social Science, Humanities, or Diversity and Global Perspective general education categories, or MAT 125.	3
		36

NOTE: One or more NET courses may be substituted with acceptable IST, CIS, COS, EET or SST courses, in consultation with an academic advisor.

Computer Science

Associate in Science Degree in Liberal Arts and Sciences (A.S.)
Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Computer Science** programs serve two distinct groups of students. The Associate in Science degree option prepares graduates for transfer as juniors to colleges and universities offering baccalaureate majors in computer science, information systems, and related fields. Mercer has dual admission and articulation agreements with Rutgers University, The College of New Jersey, and New Jersey Institute of Technology (NJIT).

The Certificate of Proficiency program is designed for students who have previously completed degrees in mathematics, science, or engineering. Certificate students gain marketable programming skills which complement their previous academic study. In addition, the Certificate program satisfies many Computer Science master's degree "bridge" requirements.

PROGRAM OUTCOMES

- Apply the fundamental concepts and techniques of computation, algorithms, and software design to a specific problem in a variety of applied fields;
- Provide detailed specifications, analyze the problem, and design a solution that functions as desired, has satisfactory performance, is reliable and maintainable, and meets desired criteria;
- Apply a firm understanding in areas of mathematics and science;
- Discuss the societal implications of computer software.

Admission to the A.S. option requires a high school diploma or equivalent with four years of college-prep mathematics. One or more years of high school science is recommended. While acceptance may be granted for students not prepared to begin the mathematics sequence of courses at the calculus level, these students should begin the mathematics sequence at the level determined by placement test results.

A student must earn a grade of C or higher in core courses to progress in the program. Computer science, mathematics and lab science courses are considered to be curriculum core courses.

SEE ALSO:

Computer Information Systems degree program
Database Administration certificate program
Mobile and Web Computing certificate program

DEGREE CURRICULUM

2021-2022 Academic Year

CMPTR.SCI.AS
CIP 240101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
COS 101	Introduction to Computer Science (3/2)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
	• May be substituted with 4-credit IST course. Consult academic advisor.		
CSW 100	College Success and Personal Wellness (2/0)	2	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
	• Some exemptions apply. Consult academic advisor for details.		
ENG 101	English Composition I (3/0)	3	
MAT 151	Calculus I for the Mathematical and Physical Sciences (4/0)	4	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

COS 102	Computer Science I – Algorithms and Programming (3/2)	4
ENG 102	English Composition II (3/0)	3
MAT 152	Calculus II for the Mathematical and Physical Sciences (4/0)	4
	• May be substituted with 4-credit IST course. Consult academic advisor.	
— —	Humanities general education elective	3
— —	Social Science general education elective	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

COS 231	Fundamentals of Computer Architecture (3/2)	4
— —	Lab Science elective	4
	• Choose from PHY 101 and 102; PHY 115 and 215; BIO 101 and 102; CHE 101 and 102.	

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

— —	Program elective	4	

- In consultation with academic advisor, select from MAT 201, 208, or 4-credit IST course.

— —	Social Science or Humanities general education elective	3	

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

COS 204	Discrete Mathematical Structures (4/0)	4	
COS 210	Computer Science II – Data Structures (3/2)	4	
— —	Lab Science elective	4	

- Choose from PHY 101 and 102; PHY 115 and 215; BIO 101 and 102; CHE 101 and 102.

— —	General Education elective	3	

- Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective, Written and Oral Communication.

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

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CERTIFICATE CURRICULUM

2021-2022 Academic Year

CMPTR.SCI.CERT

CIP 110101

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ENG 101	English Composition I (3/0)	3
MAT 151	Calculus I (4/0)	4
MAT 152	Calculus II (4/0)	4
COS 101	Introduction to Computer Science (3/2)	4
COS 102	Computer Science I – Algorithms and Programming (3/2)	4
COS 210	Computer Science II – Data Structures (3/2)	4
COS 231	Fundamentals of Computer Architecture (3/2)	4
— —	Program elective	3-4

- In consultation with an academic advisor, select from the course categories of COS, DMA, IST, or MAT.

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Computer Support Specialist
Certificate of Achievement

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Computer Support Specialist** micro-credential provides an introduction to entry-level information technology positions.

Support specialists are the front line go-to individuals for providing initial technical assistance and support related to computer systems, hardware, and software. They are responsible for answering queries and addressing system and user issues in a timely and professional manner.

PROGRAM OUTCOMES

- Identify system modules and recognize by site and definitions;
- Identify IRQ, DMAs, and I/O addresses and procedures for altering those settings;
- Describe computer nomenclature with respect to personal computer HW and SW.

Successful completion of credits from this Certificate of Achievement can be applied toward the Computer Networking and Technology degree program.

Admission to the program requires readiness for college-level English and Math and approval from the program coordinator. Students may receive credit for previous training in a skills area by applying for credit by examination, credit by experience, and/or transfer credit as evaluated and approved by the program coordinator.

SEE ALSO:
Computer Information Systems degree program
Computer Networking and Technology degree program
Computer Science degree program
Computer Science certificate program
Cybersecurity degree program
Database Administration certificate program
Database Concepts and Skills Associate certificate program
IT System Analyst Associate certificate program
Mobile and Web Computing certificate program
Oracle SQL Programming and Database Design Specialist certificate program
Web Development certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

COMP.SUPP.CRT
CIP 521299

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
NET 102	Introduction to PC Hardware and Software (2/3)	3
NET 103	IT Essentials (2/3)	3
NET 104	Fundamentals of Computer Networks (2/2)	3
NET 120	Windows Desktop OS Administration (2/2)	3
NET 122	Windows Server OS Administration (2/2)	3
		15

Criminal Justice

Corrections option
Associate in Science Degree (A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The Corrections option of the **Criminal Justice** program addresses the professional and educational needs of students interested in careers in corrections and of personnel already employed in the field who desire to increase their proficiency or to improve their professional career opportunities.

PROGRAM OUTCOMES

- Discuss the history and philosophy of the components of the criminal justice system;
- Discuss the role of the corrections officer in contemporary America;
- Compare and contrast historically the philosophies of rehabilitation and punishment;
- Describe both traditional and new practices being employed in correctional institutions.

Although some of the coursework is presented in the daytime, the complete option requires some evening attendance. Corrections may be pursued either full-time or part-time. During the sophomore year, cooperative education is available for students interested in the real-world application of corrections and criminal justice theory to the correctional system.

Admission to the Corrections option requires a high school diploma or equivalent and English competency as demonstrated by placement testing. Graduates of the State and County Basic Training Course of the New Jersey Correctional Staff Training Academy may receive nine credits of advanced standing in the Corrections option.

Applicants should be aware that institutions, agencies, and offices of the criminal justice system establish mental, physical, and character requirements. Persons interested in this option are advised to gain an awareness of the specific requirements for their desired work setting.

Graduates of this option have secured positions with county, state and federal correctional agencies, as well as probation and parole departments. Graduates have also gone on to pursue careers in social welfare, criminology, and law.

Students have transferred to such four-year institutions as The College of New Jersey, Temple University, John Jay College of Criminal Justice, and Rutgers University. To enable transfer to baccalaureate institutions without loss of credit and with full junior status, transfer

agreements have been secured with John Jay College of Criminal Justice, Fairleigh Dickinson University, New Jersey City University and Richard Stockton College of New Jersey. Students interested in these opportunities should contact a Criminal Justice program advisor early in their coursework.

SEE ALSO:

Criminal Justice - Law Enforcement option

DEGREE CURRICULUM

2021-2022 Academic Year

CRIM.CORR.AS
CIP 430107

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CRJ 101	Introduction to the Criminal Justice System (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CRJ 103	Introduction to Corrections (3/0)	3	
CSW 100	College Success and Personal Wellness (2/0) • Some exemptions apply. Consult academic advisor for details.	2	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily,

SOC 101	Introduction to Sociology (3/0)	
	OR	3
SOC 107	Social Problems (3/0)	

utilize features of Office 365, and get to know Student Planning.

✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

CRJ 105	Criminology (3/0)	3
ENG 102	English Composition II (3/0)	3
HIS 101	History of Western Civilization to 1648 (3/0)	
	OR	3
HIS 102	History of Western Civilization Since 1648 (3/0)	
MAT 120	Mathematics for Liberal Arts (3/0)	
	OR	3
MAT 125	Elementary Statistics I (3/0)	
PSY 101	Introduction to Psychology (3/0)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
CRJ 212	Juvenile Justice (3/0)	3
LEG 256	Career Development for Law and Justice Professionals (1/0)	1
SOC 209	Racial, Ethnic and Minority Groups (3/0)	3
HIS —	Historical Perspective general education elective	3
— —	Elective	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

CRJ 211	Community Corrections (3/0)	3
IST 101	Computer Concepts with Applications (2/2)	3
POL —	Political Science general education elective	3
— —	Lab Science elective	3
	• Select from BIO 113, CHE 106, PHY 111.	
— —	Elective	3

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

Criminal Justice

Law Enforcement option
Associate in Science Degree (A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The Law Enforcement option of the **Criminal Justice** program caters to the professional and educational needs of students interested in careers in law enforcement and of current law enforcement personnel who desire to increase their proficiency or to improve their professional career opportunities.

PROGRAM OUTCOMES

- 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;
- Describe the fundamental concepts and principles of management and administration employed in various police agencies;
- Discuss the roles of various criminal justice professionals.

Although some of the coursework is presented during the day, the complete option requires some evening attendance. The option may be pursued either full-time or part-time. During the sophomore year, cooperative education is available for students interested in the realistic application of law enforcement and criminal justice theory to the criminal justice system.

Admission to Law Enforcement requires a high school diploma or equivalent and English competency as demonstrated by placement testing. Graduates of the Basic Course for Police Officers may receive 12 credits of advanced standing in the Law Enforcement option.

Applicants should be aware that institutions, agencies, and offices of the criminal justice system establish mental, physical, and character requirements. Persons interested in this option are advised to gain an awareness of the specific requirements for their desired work setting.

Graduates of this option have secured positions with city, county, state, and federal law enforcement agencies as well as private security organizations. Graduates have also gone on to pursue careers in law, criminology, and social welfare.

Students have transferred to various baccalaureate institutions such as The College of New Jersey, Temple University, John Jay College of Criminal Justice, and Rutgers University. Transfer agreements with John Jay College of Criminal Justice, Fairleigh Dickinson University, New Jersey City University, and Richard Stockton College of New Jersey help graduates transfer to those institutions with little or no loss of credit and with full junior status. Students interested in transferring should contact a Criminal Justice program advisor early in their coursework.

SEE ALSO:

 Criminal Justice - Corrections option

DEGREE CURRICULUM
2021-2022 Academic Year
CRIM.LAW.AS
CIP 430107

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CRJ 101	Introduction to the Criminal Justice System (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CSW 100	College Success and Personal Wellness (2/0)	2	
	• Some exemptions apply. Consult academic advisor for details.		
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check
HIS 101	History of Western Civilization to 1648 (3/0)		your MercerMail daily,

	OR	3
HIS 102	History of Western Civilization Since 1648 (3/0)	
SOC 101	Introduction to Sociology (3/0)	
	OR	3
SOC 107	Social Problems (3/0)	

SECOND SEMESTER

CRJ 102	Police in the Community (3/0)	3
CRJ 105	Criminology (3/0)	3
ENG 102	English Composition II (3/0)	3
MAT 120	Mathematics for Liberal Arts (3/0)	
	OR	3
MAT 125	Elementary Statistics I (3/0)	
HIS —	Historical Perspective general education elective	3

THIRD SEMESTER

CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
CRJ 202	Criminal Law (3/0)	3
IST 101	Computer Concepts with Applications (2/2)	3
LEG 256	Career Development for Law and Justice Professionals (1/0)	1
— —	Lab Science elective	3
	• Select from BIO 113, CHE 106, PHY 111.	
— —	Elective	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

CRJ 206	Police Administration (3/0)	3
PSY 101	Introduction to Psychology (3/0)	3
CRJ —	Criminal Justice elective	3
	• Select from CRJ 103, 104, 207, 211, 212.	
POL —	Political Science general education elective	3
— —	Elective	3

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

Culinary Arts

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

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Culinary Arts** program provides training for students who wish to pursue a career in the food service industry as a professional chef or pastry chef. The core curriculum is comprised of 50 credits of general education and hospitality foundation courses, while each of the two concentrations – in Culinary Arts (CULA.AAS) and Pastry Arts (CULA.PASTRY.AAS) – is comprised of 16 credits that focus on advanced courses in the specialty area selected.

Students in either concentration will demonstrate proficiency in culinary skills and techniques that include the principles and processes of cooking and baking, proper use of knives, food presentation, menu development, and food safety and sanitation.

PROGRAM OUTCOMES

- Demonstrate proficiency in a variety of professionally recognized culinary skills;
- Work in any production or food preparation station within a food service department;
- Use safe and sanitary practices within any food production department;
- Create appropriate menus and recipes;
- Purchase products needed by the food service organization;
- Design and plan buffets and food-related activities and functions;
- Demonstrate professional written and verbal communication and computational skills;
- Effectively supervise and train kitchen personnel;
- Demonstrate a working knowledge of advanced culinary and pastry techniques and methodologies.

Students who complete the Culinary Arts program will be qualified to work in a variety of food service positions and settings, including restaurants, hotels, catering facilities, corporate dining facilities, healthcare food operations, and resorts. Those who complete the Pastry Arts concentration will be qualified for positions in hotels, fine dining restaurants and clubs, as well as a variety of positions with retail and wholesale bakeries.

Graduates of this A.A.S. program also would be eligible to transfer to Fairleigh Dickinson University to pursue a Bachelor of Arts in Individualized Studies offered through the University's Petrocelli College of Continuing Studies. Students may also transfer to Johnson & Wales University, where many credits will be accepted. Other transfer opportunities are being developed.

Admission to the program requires, at minimum, a high school diploma or its equivalent.

SEE ALSO:
[Culinology / Food Science](#) degree program
[Professional Baking](#) certificate program
[Professional Cooking](#) certificate program

Culinary Arts CONCENTRATION

DEGREE CURRICULUM
2021-2022 Academic Year
CULA.AAS
CIP 120503

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ENG 101	English Composition I (3/0)	3	✔ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
HOS 100	Hospitality Success Skills (1/0)	1	
HOS 101	Food Preparation I (1/4)	3	
HOS 111	Culinary Math (1/0)	1	
HOS 118	Sanitation and Safety in Food Service Operations (2/0)	2	✔ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
HOS 185	Table Service (1/3)	2	
MAT 120	Mathematics for Liberal Arts (3/0)	3	

SECOND SEMESTER

ENG 102	English Composition II (3/0)	3
HOS 102	Food Preparation II (1/4)	3
HOS 109	Advanced Culinary Arts (1/4)	3
HOS 116	Techniques of Healthy Cooking (1/4)	3
HOS 217	Professional Baking I (1/4)	3

SUMMER or WINTER SESSION

HOS 110	Breakfast / Pantry (1/3)	2
HOS 289	Culinary / Pastry Arts Internship	1

- Typically taken during the Summer session between the program's first and second years. Alternatively, may be taken in the third or fourth semester.

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

HOS 115	Food and Culture (2/2)	3
HOS 203	Hospitality Purchasing (3/0)	3
HOS 231	Meat, Poultry and Fish Fabrication (0/2)	1

✓ Keep in contact with each professor and your faculty advisor. Make sure

HOS 235	American Regional Cuisine (1/3)	2
HOS 255	Garde Manger (1/3)	2
— —	General Education elective	3

you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

HOS 210	Applied Kitchen Skills – Cafe (1/4)	3
HOS 230	Experimental Kitchen (1/3)	2
HOS 240	Classical Cuisine / Advanced International (1/3)	2
IST 101	Computer Concepts with Applications (2/2)	3

- Or consult academic advisor.

— —	Humanities general education elective	3

✓ Get ready to start your career! Begin the job application process.

✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

DEGREE CURRICULUM

2021-2022 Academic Year
CULA.PASTRY.AAS
CIP 120503

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (Foundations courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ENG 101	English Composition I (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
HOS 101	Food Preparation I (1/4)	3	
HOS 111	Culinary Math (1/0)	1	
HOS 118	Sanitation and Safety in Food Service Operations (2/0)	2	
HOS 217	Professional Baking I (1/4)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
MAT 120	Mathematics for Liberal Arts (3/0)	3	
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

ENG 102	English Composition II (3/0)	3
HOS 100	Hospitality Success Skills (1/0)	1
HOS 102	Food Preparation II (1/4)	3
HOS 116	Techniques of Healthy Cooking (1/4)	3
HOS 218	Professional Baking II (1/4)	3
HOS 219	Professional Baking III (1/3)	2

SUMMER or WINTER SESSION

HOS 110	Breakfast / Pantry (1/3)	2
HOS 289	Culinary / Pastry Arts Internship	1

- Typically taken during the Summer session between the program's first and second years. Alternatively, may be taken in the third or fourth semester.

THIRD SEMESTER

HOS 203	Hospitality Purchasing (3/0)	3
HOS 230	Experimental Kitchen (1/3)	2
HOS 246	Artisanal Breads (1/3)	2
HOS 247	Restaurant Desserts (1/4)	3
— —	General Education elective	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting

involved in activities and clubs.

✔ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✔ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

HOS 115	Food and Culture (2/2)	3
HOS 245	Chocolates and Confections / Retail Bakeshop (1/4)	3
HOS 249	Advanced Pastry (1/3)	2
IST 101	Computer Concepts with Applications (2/2)	3
	• Or consult academic advisor.	
— —	Humanities general education elective	3

✔ Get ready to start your career! Begin the job application process.

✔ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

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Culinology / Food Science

Associate in Science Degree (A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

Students who complete the degree requirements will be eligible to transfer to Rutgers University to pursue a baccalaureate degree in Interdisciplinary **Food Science**.

Culinology™ refers to the blending of the disciplines of food science and culinary arts. The term is a trademark of the Research Chefs Association, which has approved MCCC's program (one of only a handful in the nation). By combining the knowledge of basic science with the creativity of culinary arts, students develop a skill set that will enable them to contribute to the creative development of new food products and flavors.

PROGRAM OUTCOMES

- Apply practical culinary techniques that stress creativity and innovation with respect to flavor and texture in food production;
- Create high-quality food products with artistic designs;
- Develop high-quality, consumer-driven menu items;
- Demonstrate proficiency in the culinary arts, including menu and recipe development;
- Critique menu items based upon flavor profile and objective criteria;
- Apply scientific data collection and analysis skills;
- Employ safe and sanitary practices within any food production department.

Students are encouraged to become a member of the Research Chefs Association and work toward becoming a Certified Research Chef. A career in this field can be in the research and development of food, beverage products, new tastes and flavors, and new ways to store manufactured foods.

Admission requires a high school diploma or its equivalent and completion of pre-calculus mathematics. To be admitted to the program, the applicant must demonstrate competency in English, reading, and mathematics as determined by placement testing. Individuals who do not meet these admission requirements should plan a preparatory program with a faculty advisor.

SEE ALSO:
Culinary Arts degree program
Professional Baking certificate program
Professional Cooking certificate program

DEGREE CURRICULUM

2021-2022 Academic Year
CULIN.AS
CIP 520905

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
BIO 101	General Biology I (3/3)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ENG 101	English Composition I (3/0)	3	
HOS 100	Hospitality Success Skills (1/0)	1	
HOS 101	Food Preparation I (1/4)	3	
HOS 118	Sanitation and Safety in Food Service Operations (2/0)	2	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
HOS 217	Professional Baking I (1/4)	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
SECOND SEMESTER			
BIO 102	General Biology II (3/3)	4	

ENG 102	English Composition II (3/0)	3
HOS 102	Food Preparation II (1/4)	3
HOS 109	Advanced Culinary Arts (1/4)	3
— —	Humanities general education elective	3

✓ Transitioning to college can be challenging. Meet with your Success Coachfor guidance and support.

✓ Apply for financial aidby May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Servicesand Career Servicesoffices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

CHE 101	General Chemistry I (3/3)	4
HOS 230	Experimental Kitchen (1/3)	2
HOS 235	American Regional Cuisine (1/3)	
	OR	2
HOS 240	Classical Cuisine / Advanced International (1/3)	

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

MAT 151	Calculus I (4/0)	4	✓ Develop team and leadership skills by getting involved in activities and clubs.

- Students who do not place at this mathematics level must meet with their program advisor to develop an academic plan.

— —	Social Science general education elective	3	✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

CHE 102	General Chemistry II (3/3)	4	✓ Apply for financial aid by May 1.
HOS 115	Food and Culture (2/2)	3	
HOS 218	Professional Baking II (1/4)		✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.
	OR	3	
HOS 116	Techniques of Healthy Cooking (1/4)		
— —	Social Science or Humanities general education elective	3	✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

- ECO 111, ECO 112, or PSY 101 recommended for transfer students to Rutgers Food Science program.

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Cybersecurity

Associate in Applied Science Degree in Information Technology (A.A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Cybersecurity** associate degree prepares students for jobs protecting computer systems and networks against cyber threats such as viruses, spyware, and intrusion by hackers. These professionals design, install, and manage network control tools and other security mechanisms that protect computer systems from unauthorized access or data loss. Part prevention and part critical response, Cybersecurity supports careers such as network security specialist, security administrator, and network security support engineer.

PROGRAM OUTCOMES

- Describe the elements of information security, including possible threats and attack vectors as well as the motives, goals, and objectives of information security attacks;
- Explain what steps can be taken to secure a system, and provide secure network management and reporting;
- Secure routers and switches and their associated networks, including installing, troubleshooting, and monitoring network devices to maintain integrity, confidentiality, and availability of data and devices;
- Prevent common security threats, including implementing firewall and VPN technologies and perimeter defenses, conducting vulnerability and penetration testing, and scanning networked systems;
- Describe the security weaknesses inherent in wireless networks, and implement solutions to address them;
- Use printed and online technical documentation, and demonstrate written and oral communication skills;
- Work effectively individually and in workgroups to install and implement information security technology;
- Pass industry certifications, including CompTIA's Security+; EC-Council's CEH (Certified Ethical Hacker); and Cisco's CCENT, CCNA, and CCNA: Security.

Admission to the program requires a high school diploma or its equivalent, one year of high school algebra, and computer literacy. Applicants must demonstrate competency in English composition, reading, and mathematics, as determined by placement testing. Students who are required to complete foundations courses must plan their curriculum with an academic advisor.

The A.A.S. in Cybersecurity was not developed as a transfer curriculum; however, students have successfully transferred to, and completed bachelor's degrees at, several technically-

oriented institutions including NJIT, Fairleigh Dickinson University, DeVry University, Drexel University, and Peirce College.

SEE ALSO:

Computer Information Systems degree program
Computer Networking and Technology degree program
Network Engineering Technology certificate program

DEGREE CURRICULUM
2021-2022 Academic Year
CYBERSECURITY.AAS
CIP 111003

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ENG 101	English Composition I (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
NET 102	Introduction to PC Hardware and Software (2/3)	3	
NET 104	Fundamentals of Computer Networks (2/2)	3	
NET 120	Windows Desktop OS Administration (2/2)	3	
IST —	Computer Concepts requirement (2/2) • Select from IST 101, 102, or in consultation with an academic advisor.	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning. ✓ Take advantage of Learning Centers or Online

SECOND SEMESTER

ENG 102	English Composition II (3/0)	3
MAT 125	Elementary Statistics I (3/0)	3
	• Students intending to transfer should substitute a higher-level mathematics course. Select in consultation with an academic advisor.	
NET 103	IT Essentials (2/3)	3
NET 122	Windows Server OS Administration (2/2)	3
NET 130	Routing and Switching Essentials (2/2)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

ECO 111	Macroeconomics (3/0)	3
	• May be substituted with another Social Science general education elective.	
NET 212	Introduction to Linux (2/2)	3
NET 230	Scaling Networks (2/2)	3
NET 239	Connecting Networks (2/2)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

NET 240	Network Security (2/2)	3

FOURTH SEMESTER

BUS 230	Global Environment of Business (3/0)	3

- May be substituted with another Diversity and Global Perspective general education elective.

NET 244	Network Defense and Countermeasures (2/2)	3
NET 245	Ethical Hacking (2/2)	3
NET 246	Wireless Security (2/2)	3
PHI 204	Ethics (3/0)	3

- May be substituted with another Humanities or Social Science general education elective.

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NOTE: One or more NET courses may be substituted with acceptable IST, CIS, COS, EET or SST courses, in consultation with an academic advisor.

Dance

Associate in Arts Degree in Liberal Arts and Sciences (A.A.)
Associate in Fine Arts Degree in Performing Arts (A.F.A.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Dance** program offers rounded and intensive study of jazz, ballet, and modern technique. Students also receive training in choreography and perform in student-driven projects as well as the Mercer Dance Ensemble (M.D.E.), Mercer County's own dance company.

The program offers two degree options, A.A. or A.F.A., both of which combine conservatory training in the performing arts with academic education in the liberal arts. The A.A. allows students to transfer as juniors into bachelor of arts programs. The A.F.A. includes additional training in performing arts and prepares students for work as well as further study in the field.

PROGRAM OUTCOMES

- Master the physical discipline and time investment necessary to carry out professional concerts;
- Choreograph independently to create their own dances;
- Work collaboratively with artistic and production staff;
- Create successful auditions by preparing materials and exhibiting professional conduct.

Graduates have transferred to four-year institutions including Rider University, George Mason University, Montclair State University, and Rutgers University Mason Gross School of the Arts, among others. Dance program students have also gone on to perform with Tsunami Productions, Nicholas Rodriguez and Company, Six Flags Great Adventure, and Sesame Street Live.

The program may be pursued part- or full-time. Dance courses are offered during the morning and afternoon. Students are required to attend some evening classes in order to complete the program. Admission requires a high school diploma or its equivalent.

A.A. DEGREE CURRICULUM

2021-2022 Academic Year

DAN.AA
CIP 500101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CMN 112	Public Speaking (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
DAN 101	Introduction to Dance and Culture (3/0)	3	
DAN 116	Studio Dance Technique I (0/6)	3	
ENG 101	English Composition I (3/0)	3	
MAT 125	Elementary Statistics I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
SECOND SEMESTER			
DAN 117	Studio Dance Technique II (0/6)	3	

DAN 120	Choreography I (2/2)	3
ENG 102	English Composition II (3/0)	3
MAT 126	Elementary Statistics II (3/0)	3
HIS —	Historical Perspective general education elective	3

- HIS 112 and 113 recommended.

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

DAN 118	Studio Dance Technique III (0/6)	3
PHY 111	Physical Science Concepts (2/2)	3
THR 212	Central Voices in World Drama (3/0)	3
VPA 228	Artistic Collaboration Workshop (2/2)	3
— —	Technology general education elective	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

• DMA 144 recommended.		

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

ART 123	History of Modern Art (3/0)	3	
MUS 103	Introduction to Music (3/0)	3	
HIS —	Historical Perspective general education elective	3	
	• HIS 112 and 113 recommended.		
— —	Social Science general education elective	3	
	• ANT 101 and PSY 101 recommended.		
— —	Social Science general education elective	3	
	• ANT 101 and PSY 101 recommended.		

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

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NOTE: Students who forego the courses recommended above should select all other electives in consultation with an academic advisor in order to assure maximum transfer of credits.

A.F.A. DEGREE CURRICULUM

2021-2022 Academic Year

DAN.AFA
CIP 500101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CMN 112	Public Speaking (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
DAN 101	Introduction to Dance and Culture (3/0)	3	
DAN 112	Ballet II (1/2)	2	
DAN 116	Studio Dance Technique I (0/6)	3	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
MUS 103	Introduction to Music (3/0)	3	
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
SECOND SEMESTER			
BIO 106	Human Anatomy (3/2)	4	

DAN 117	Studio Dance Technique II (0/6)	3	
DAN 120	Choreography I (2/2)	3	
ENG 102	English Composition II (3/0)	3	
— —	Social Science general education elective	3	

- ANT 101 or PSY 101 recommended.

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

DAN 118	Studio Dance Technique III (0/6)	3	
DAN 285	Special Studies: Dance	3	
MAT 125	Elementary Statistics I (3/0)	3	
THR 104	Fundamentals of Acting (2/2)	3	
VPA 228	Artistic Collaboration Workshop (2/2)	3	

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

DAN 113	Modern Dance II (1/2)	2	✓ Apply for financial aid by May 1.
DAN 119	Studio Dance Technique IV (0/6)	3	
ETT 200	Technical Production	1	✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.
THR 101	Introduction to Theatre (3/0)	3	
HIS —	Historical Perspective general education elective	3	✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.
	• HIS 112 recommended.		

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NOTE: Students who forego the courses recommended above should select all other electives in consultation with an academic advisor in order to assure maximum transfer of credits.

Dance

Certificate of Achievement

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Dance** micro-credential is designed for those seeking to expand their skills in performance for personal growth and employment advancement.

Combining intensive classroom study and performance, the program is dedicated to developing a dancer who can cope with the demands of the concert stage and work with a range of styles – from ballet to modern to jazz.

PROGRAM OUTCOMES

- Master the physical discipline and time investment necessary to carry out professional concerts;
- Choreograph independently to create own dances;
- Work collaboratively with artistic and production staff;
- Create successful auditions by preparing materials and exhibiting professional conduct.

Successful completion of credits from this Certificate of Achievement can be applied toward the Dance degree programs.

Admission to the program requires readiness for college-level English and Math and approval from the program coordinator. Students may receive credit for previous training in a skills area by applying for credit by examination, credit by experience, and/or transfer credit as evaluated and approved by the program coordinator.

SEE ALSO:
Dance A.A. degree program
Dance A.F.A. degree program

CERTIFICATE CURRICULUM

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
DAN 101	Introduction to Dance and Culture (3/0)	3

- Consult program coordinator concerning ENG 101 prerequisite.

Code	Course (lecture/lab hours)	Credits
DAN 112	Ballet II (1/2)	2
DAN 116	Studio Dance Technique I (0/6)	3
DAN 113	Modern Dance II (1/2)	2
DAN 117	Studio Dance Technique II (0/6)	3
DAN 120	Choreography I (2/2)	3
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Database Concepts and Skills Associate

Certificate of Achievement

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Database Concepts and Skills Associate** micro-credential provides beginners friendly introductory-level courses in database administration, whether students are just finding their footing, prepping for their industry desired certifications, or looking to go deep into specialty topics like serverless and machine learning.

The courses provide hands-on learning with the technology to reinforce concepts with real-world experience.

PROGRAM OUTCOMES

- Explain basic concepts of databases;
- Code using Oracle Structured Query (SQL) Language;
- Deploy databases on cloud platform.

Successful completion of credits from this Certificate of Achievement can be applied toward the Database Administration certificate and Computer Information Systems degree programs.

Admission to the program requires readiness for college-level English and Math and approval from the program coordinator. Students may receive credit for previous training in a skills area by applying for credit by examination, credit by experience, and/or transfer credit as evaluated and approved by the program coordinator.

SEE ALSO:
Computer Information Systems degree program
Computer Networking and Technology degree program
Computer Science degree program
Computer Science certificate program
Computer Support Specialist certificate program
Cybersecurity degree program
Database Administration certificate program
IT System Analyst Associate certificate program
Mobile and Web Computing certificate program
Oracle SQL Programming and Database Design Specialist certificate program
Web Development certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

DATA.CONC.ASSOC.CRT
CIP 110201

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
FIRST SEMESTER		
IST 109	Introduction to Programming (2/2)	3
SECOND SEMESTER		
IST 253	Database Concepts (2/2)	3
IST 262	Oracle SQL (3/2)	4
THIRD SEMESTER		
IST 265	Database Cloud Computing Concept (2/2)	3
		13

Digital Film

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

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The A.A.S. degree program in **Digital Film** prepares students to create, interpret, and analyze visual language through the study of aesthetic and technical concepts applied in the making and producing of films. Students learn all aspects of digital film including directing, producing, editing, cinematography, and screenwriting.

Each course connects to another course in the curriculum in some unique way and provides a solid foundation for students to achieve successful careers in the highly competitive film industry. The curriculum has been designed to encourage collaboration throughout the college on several levels, enabling learning opportunities beyond the classroom experience.

The Digital Film program offers a variety of courses that are production-oriented, as well as those exploring film history, theory, and criticism. The program also includes training in all aspects of new media technologies including state-of-the-art, high-definition digital acquisition.

PROGRAM OUTCOMES

- Write, produce, direct, and edit a variety of digital film productions;
- Achieve entry-level professional competence for a position in commercial or film productions;
- Apply narrative structures in the development of short films;
- Choose and analyze scripts, and evaluate the potential of auditioning talent;
- Effectively direct actors to illustrate dramatic action and character;
- Design and implement mood-setting lighting design;
- Evaluate film scripts and select appropriate camera lenses for storytelling;
- Assemble production teams to work on short films.

DEGREE CURRICULUM
2021-2022 Academic Year
DMA.FILM.AAS
CIP 100201

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CMN 101	Mass Media (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CMN 112	Public Speaking (3/0)	3	
CMN 141	Introduction to Television Production (2/2)	3	
DMA 144	Internet Tools and Techniques (1/4)	3	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
SECOND SEMESTER			
CMN 142	Introduction to Field Production (2/2)	3	

CMN 146	Social Media Technologies (2/2)	3
CMN 147	Introduction to Story (2/2)	3
CMN 148	Introduction to Editing (2/2)	3
ENG 102	English Composition II (3/0)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

CMN 144	Screenwriting (2/2)	3
CMN 153	Digital Audio Production I (2/2)	3
CMN 241	Applied Field Production (2/2)	3
CMN 243	Cinematography (2/2)	3
MAT 125	Elementary Statistics I (3/0)	3

- MAT 120 is an acceptable alternative.

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting involved in activities and clubs.

FOURTH SEMESTER

CMN 107	Cinema (3/0)	3
CMN 242	Advanced Film Production (2/2)	3
PHO 103	Digital Photography I (2/3)	3
— —	Social Science general education elective	3

✓ Get ready to start your career! Begin the job application process.

✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

SUMMER SESSION

CMN 285	Special Studies in Television Production	
	OR	3
CMN 290	Internship: Communications (3/0)	

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Digital Media Arts

Associate in Applied Science Degree in Visual Arts (A.A.S.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Digital Media Arts** A.A.S. option of the Visual Arts program prepares students for entry-level positions in three areas: 3-D Animation, Web Design, and Multimedia.

The computer is the primary tool of expression in the program; however, emphasis is placed on the development of creative thinking and art and design skills. Most course work takes place in a studio using regularly updated professional-quality hardware and software on both Macintosh and PC computer platforms.

The program may be pursued full-time or part-time. Some courses may be offered only during the evening.

SEE ALSO:
3-D Animation certificate program
Web Design certificate program

The **3-D Animation** concentration (DMA.3D. AAS) prepares students for positions as 3-D production artists, animators, and modelers. Typical employers include animation studios; advertising agencies; design firms; television, film and video effects houses; and other branches of the entertainment industry.

PROGRAM OUTCOMES

- Understand the pre-production process, including character design and storyboarding;
- Visualize and animate story ideas;
- Apply animation and storytelling principles to specific animation projects;
- Use design principles to create 3-D computer animations that communicate effectively;
- Use professional 3-D modeling and animation software applications;
- Solve design problems, which contain change over time, 3-D models, camera positions, lighting, and textures;
- Create a professional portfolio to serve in the pursuit of further education or employment.

The **Web Design** concentration (DMA.WEB.AAS) prepares students for positions as web designers, web animators, and interactive art directors – positions most often found in interactive multimedia studios, advertising agencies, and design firms. It also prepares students for advanced study in interactive media design.

PROGRAM OUTCOMES

- Design an architectural plan for a website;
- Use professional software applications to create a website with advanced design and content;
- Use professional software to create interactive games and educational modules;
- Use professional software to edit digital video and audio;
- Use design principles to create web pages that communicate effectively;
- Use the principles of user interaction and usability to create user-friendly websites;
- Create websites that are accessible to and serve a variety of different user needs and technologies;
- Develop and present ideas in both written and oral formats;
- Create a professional portfolio to serve in the pursuit of further education or employment.

The **Multimedia** concentration (DMA.MULT.AAS) prepares students for positions as multimedia designers, graphic artists, and production artists. Typical employers include advertising agencies; design firms; television, film and video effects houses; and other branches of the entertainment industry. It also prepares students for advanced study in computer graphics or digital media arts.

PROGRAM OUTCOMES

- Produce and manage two- and three-dimensional digital imagery using professional digital manipulation and illustration software;
- Produce and manage moving imagery using professional animation, video, and motion graphics software;
- Apply design principles in the design and creation of digital imagery;
- Apply animation and storytelling principles in the design and creation of animation and video projects;
- Understand the different phases of digital production;
- Use a variety of digital input and output technologies;
- Develop and present ideas in both written and oral formats;
- Create a professional portfolio to serve in the pursuit of further education or employment.

DEGREE CURRICULUM

2021-2022 Academic Year

DMA.3D.AAS
DMA.WEB.AAS
DMA.MULT.AAS
CIP 500402

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ART 102	Basic Drawing (1/4)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ART 105	Two-Dimensional Design (1/4)	3	
DMA 110	Digital Imaging (1/4)	3	
DMA 144	Internet Tools and Techniques (1/4)	3	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
SECOND SEMESTER			
ART 106	Three-Dimensional Design (1/4)	3	

ART 122	History of Art II (3/0)	3
DMA 115	Vector Drawing (1/4)	3
DMA 145	Web Design I (1/4)	3
ENG 102	English Composition II (3/0)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

DMA 135	Digital Narrative (1/4)	3
DMA 250	Digital Portfolio Seminar (1/4)	3
MAT —	Mathematics elective	3
	• MAT 120 or 125 recommended. Select in consultation with an academic advisor.	
— —	**Concentration elective**	3
— —	**Concentration elective**	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Apply for Continuing Student scholarships

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✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

Code	Course (lecture/lab hours)	Credits	
ADV 201	Advertising Design II (1/4)	3	✓ Get ready to start your career! Begin the job application process.
CMN 112	Public Speaking (3/0)	3	
— —	Art History elective	3	✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.
	• Select from ART 121, 124, 125; CMN 107; PHO 110.		
— —	**Concentration elective**	3	
— —	**Concentration elective**	3	
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NOTE: Students must earn a minimum grade of C in all ADV, ART, CMN, DMA, IST, and PHO courses.

Code	Course (lecture/lab hours)	Credits

3-D Animation CONCENTRATION electives

ART 104	Life Drawing (1/4)	3
DMA 120	3-D Modeling I (1/4)	3
DMA 225	Computer Animation I (1/4)	3
DMA 226	Computer Animation II (1/4)	3

Web Design CONCENTRATION electives

ADV 101	Advertising Design I (1/4)	3
ADV 110	Typography I: Basics of Graphic Design (1/4)	3
DMA 245	Web Design II (1/4)	3
DMA 210	Motion Graphics (1/4)	3
	OR	3
DMA 290	Digital Media Arts Internship	

Multimedia CONCENTRATION electives

ADV 110	Typography I: Basics of Graphic Design (1/4)	3
DMA 210	Motion Graphics (1/4)	3
DMA 275	Interdisciplinary Studio (1/4)	3
— —	Multimedia elective Select from any 200-level DMA course or the following courses from other programs: ADV 101, 210; CMN 141, 142, 153; GAM 120; MUS 230; PHO 202, 203.	3

Early Childhood Education / Special Education Assistant

Associate in Applied Science Degree in Human Services (A.A.S.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Education / Special Education Assistant** option of the Human Services program is designed to meet the needs of students interested in careers as education assistants or teacher aides in schools, day care centers, or similar institutions. Individuals currently holding paraprofessional positions in education may use this option to enhance classroom and related skills.

PROGRAM OUTCOMES

- Identify and explain the historical and philosophical foundations of American education;
- Interpret current issues facing educators on the basis of study and research;
- Evaluate how students differ in their approaches to learning and create instructional opportunities that are adapted to diverse learners;
- Conduct small instructional groups under the supervision of a teacher;
- Tutor individual students in selected subjects;
- Implement lesson plans that have specific learning outcomes and procedures, support inclusion, and reflect differentiation of instruction;
- Demonstrate the use of classroom technology for instructional, adaptive, and enhancement purposes.

Although some of the required courses are offered in the evening, the complete option will require daytime attendance either full-time or part-time. During the Spring semester of the sophomore year, the student has an intensive 15 to 20 hours per week field experience in classrooms under the supervision of skilled teachers. Arrangements for the field experience must be made during the preceding Fall semester.

By careful selection of electives, students interested in working with special populations may become qualified as special education assistants. Consult an Education program advisor for more information.

Admission to the program requires a high school diploma or its equivalent and competency in English as demonstrated through placement testing.

Students who have completed this program have found employment in public and private schools, day care centers, and similar institutions.

Graduates of the program have transferred to various four-year colleges and universities including The College of New Jersey, Rowan University, Georgian Court University, Rider University, and Rutgers University. This program is not, however, designed for transfer, and some loss of credit may be expected depending upon the transfer institution and the intended program of baccalaureate study.

SEE ALSO:

Education (K-12) degree program

DEGREE CURRICULUM

2021-2022 Academic Year
EDU.SPEC.ED.AAS
CIP 440000

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CSW 100	College Success and Personal Wellness (2/0) • Some exemptions apply. Consult academic advisor for details.	2	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
EDU 109	Introduction to Education: Foundations, History, and Trends of American Education (3/0)	3	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily,
LAS 101	Introduction to Liberal Arts Studies (1/0)	1	

MAT 120	Mathematics for Liberal Arts (3/0)	
	OR	3
MAT 125	Elementary Statistics I (3/0)	
PSY 101	Introduction to Psychology (3/0)	3

SECOND SEMESTER

CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
EDU 102	Introduction to Exceptional Children (3/0)	3
ENG 102	English Composition II (3/0)	3
PSY 206	Child Development (3/0)	3
SOC 101	Introduction to Sociology (3/0)	
	OR	3
SOC 104	Sociology of Education (3/0)	

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

EDU 120	Introduction to Early Childhood Education (3/0)	3
IST 101	Computer Concepts with Applications (2/2)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure

[ENG](#)	—	Literature elective	3

- ENG 222 recommended.

[HIS](#)	—	[Historical Perspective general education elective](#)	3

- Select from HIS 101, 102, 105, 106, 109, 112, 113.

—	—	[Science OR Technology general education elective](#)	3

FOURTH SEMESTER

[EDU 210](#)	Education Field Experience (15-20 hours per week)	6
[EDU 211](#)	Education Seminar (3/0)	3
[EDU 214](#)	Curriculum and Methods for Early Childhood (3/0)	3
— —	Visual Arts or Music elective	3

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NOTE: Students who have completed the Child Development Associate (CDA) or Certified Childcare Professional (CCP) certificate can receive 6 education credits for that work after having satisfied English and math requirements.

NOTE: Students must earn a minimum grade of C in all EDU courses to graduate.

Education (K-12)

Associate in Arts Degree in Liberal Arts and Sciences (A.A.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Education (K-12)** option of the Liberal Arts and Sciences program introduces students to the field of teaching and prepares them to enter a baccalaureate degree program from k-12 including specialized programs for students with special needs and most secondary subject areas. In addition to studying the history, philosophy, and practices of education, students are offered the opportunity to engage in service learning or field experience in school settings under the supervision of experienced classroom teachers.

Students should determine the requirements of the college to which they wish to transfer and, with the aid of college advising and counseling services, select elective subjects accordingly.

PROGRAM OUTCOMES

- Identify and explain the historical and philosophical foundations of American education;
- Interpret current issues facing educators on the basis of study and research;
- Take responsibility for their own learning as they make the transition from learners to teacher/learners;
- Analyze how children learn and develop, and provide learning opportunities that support a child's intellectual, social, and personal development;
- Evaluate how students differ in their approaches to learning and create instructional opportunities that are adapted to diverse learners;
- Demonstrate effective verbal, nonverbal, and media communication techniques to foster active inquiry, collaboration, and supportive interaction in the classroom;
- Describe and demonstrate a variety of teaching techniques and strategies;
- Create and implement planned instructional activities for individuals, small and large groups;
- Identify and apply assessment measures;
- Articulate own teaching proficiency base.

This option may be pursued part-time or full-time and may be completed by day or night attendance.

Admission requires a high school diploma or its equivalent, one year of science, and two years of mathematics. To be admitted, an applicant must demonstrate competency in English and reading as determined by placement testing.

Although this option is designed as a transfer program, some students may find paraprofessional employment in public or private schools. Individuals currently holding paraprofessional positions in education may use this program to enhance their professional development.

SEE ALSO:

[Early Childhood Education / Special Education Assistant](#) degree program

DEGREE CURRICULUM
2021-2022 Academic Year
EDU.AA
CIP 240101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CMN 111	Speech: Human Communication (3/0)		✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
	OR	3	
CMN 112	Public Speaking (3/0)		
CSW 100	College Success and Personal Wellness (2/0)	2	
	• Some exemptions apply. Consult academic advisor for details.		✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
ENG 101	English Composition I (3/0)	3	
LAS 101	Introduction to Liberal Arts Studies (1/0)	1	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
MAT 120	Mathematics for Liberal Arts (3/0)	3	
PSY 101	Introduction to Psychology (3/0)	3	

SECOND SEMESTER

EDU 109	Introduction to Education: Foundations, History, and Trends of American Education (3/0)	3
ENG 102	English Composition II (3/0)	3
MAT 125	Elementary Statistics I (3/0)	3
PSY 206	Child Development (3/0)	3
SOC 101	Introduction to Sociology (3/0)	
	OR	3
	• Students who plan to continue at Mercer's University Center in the William Paterson University program should take SOC 104.	
SOC 104	Sociology of Education (3/0)	

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

EDU —	Education elective	3
	• Students planning to continue in the William Paterson University program should choose EDU 102 (Introduction to Exceptional Children). Otherwise, select from EDU 102, 120, or 130. Consultation with an academic advisor is strongly recommended.	

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

HIS —	United States History elective (3/0)	3

- Select from HIS 105, 106, 109, 214.

— —	Diversity and Global Perspective general education elective	3

- ENG 222 (Children's Literature) is recommended for students interested in elementary or early childhood education. Those planning to continue in the William Paterson University program should choose a globally-focused elective including ART 124; ENG 203, 204, 214; HIS 112, 113, 206, 218; or REL 102.

— —	Humanities general education elective	3

- Students planning to continue in the William Paterson University program should take two semesters of a world language. Otherwise, select from Art (ART 101, 121, 123, 124, 125), Music (MUS 103), Literature, or Philosophy electives.

— —	Lab Science general education elective	3

FOURTH SEMESTER

HIS —	Historical Perspective general education elective	3

- Select from HIS 101, 102, 112, 113.

— —	Humanities general education elective	3

- Students planning to continue in the William Paterson University program should take two semesters of a world language. Otherwise, select from Art (ART 101, 121, 123, 124, 125), Music (MUS 103), Literature, or Philosophy electives.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

		Humanities general education elective	3

- Students planning to continue in the William Paterson University program should take two semesters of a world language. Otherwise, select from Art (ART 101, 121, 123, 124, 125), Music (MUS 103), Literature, or Philosophy electives.

		Lab Science general education elective	3
		Elective	3

- Select in consultation with an academic advisor.

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NOTE: Students must earn a minimum grade of C in all EDU courses to graduate.

Electronics Engineering Technology
Associate in Applied Science Degree (A.A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Electronics Engineering Technology** (EET) program is primarily a transfer program. Successful graduates may transfer to a college or university which offers a four-year bachelor's degree in electronics engineering technology.

Mercer County Community College's EET program maintains a transfer agreement with the ECET program of NJIT. Other options for EET graduates include Rowan, Drexel, and Rutgers universities. Several of these institutions have programs which allow EET graduates to complete the requirements for a BSET degree in two years or a Master of Science (MSEE) in three years.

Options among four-year transfer programs include Biomedical Engineering, for job opportunities at the various New Jersey pharmaceutical companies; Computer Engineering, for positions ranging from programmers to systems administrators; General Electrical Engineering, for opportunities at the various electronics companies in New Jersey and the surrounding states; and Telecommunications Engineering, for positions with companies employing fiber optics or networking systems.

PROGRAM OUTCOMES

- Communicate effectively in English, both orally and in written form;
- Demonstrate an understanding of the fundamentals of AC and DC electricity;
- Work as a team with fellow workers;
- Use a computer to access information from the Internet;
- Demonstrate mastery of college algebra and trigonometry;
- Demonstrate mastery of job skills such as soldering, metalworking, and PC board repair; • Demonstrate an understanding of fundamental digital circuits;
- Demonstrate an understanding of analog circuits, including linear integrated circuits;
- Set up and operate modern electronic equipment such as DMM, oscilloscope, and signal generators.

Admission requires a high school diploma or its equivalent, with two years of algebra desired. One year of laboratory science (chemistry or physics) is strongly recommended for students who intend to transfer to a baccalaureate degree program.

Graduates may begin work directly as electronic technicians, electronic technologists, engineering aides, customer engineers, field service engineers, junior engineers, associate engineers, sales engineers, and systems test technicians. These positions are in the

electronics industry, communications, medical instrumentation, energy technology, digital and computer technology, and scientific or technological research and development.

Students planning to transfer should achieve mathematics proficiency at the calculus level and should select physics as their science/technology electives. They will be advised individually during their first session with an EET program advisor.

The college offers a related certificate program in Electronics Engineering Technology, which may be a desirable option for employed persons attending college part-time.

In a particular year, some required courses may be available only during the day or evening.

SEE ALSO:
Electronics Engineering Technology certificate program

DEGREE CURRICULUM
2021-2022 Academic Year
ENGR.ELCT.AAS
CIP 150303

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
EET 138	Introduction to Electronics I (3/3)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
EET 140	Electronic Construction (1/3)	2	
ENG 101	English Composition I (3/0)	3	
MAT 151	Calculus I for the Mathematical and Physical Sciences (4/0)		

	• Preferred for students intending to transfer to a baccalaureate program.	
	OR	4
MAT 146	Pre-Calculus (4/0)	

SECOND SEMESTER

EET 139	Introduction to Electronics II (3/3)	4
EET 145	Fiber Optics (2/3)	3
ENG 102	English Composition II (3/0)	3
— —	Social Science or Humanities general education elective	3
— —	General Education elective	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

EET 219	Electronic Networks (3/3)	4

EET 251	Digital Circuit Fundamentals (3/3)	4	
PHY 101	College Physics I (3/3)	4	
— —	General Education elective	3	

- Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective, Written and Oral Communication.

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

EET 214	Communications Electronics (3/3)	4	
EET 230	Linear Integrated Circuits (3/3)	4	
EET 263	Digital Technology (3/3)	4	
PHY 102	College Physics II (3/3)	4	
		60	

✓ Get ready to start your career! Begin the job application process.

✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

Electronics Engineering Technology
Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Electronics Engineering Technology** certificate program provides students with the level of technical competency normally required of technicians in the field of digital/microcomputer electronics.

Students may be eligible for credit or advanced standing for work experience in electronics.

PROGRAM OUTCOMES

- Analyze, test, troubleshoot, and repair electronic circuits;
- Operate modern electronics test equipment to diagnose, troubleshoot, and repair electronic circuits;
- Display knowledge of basic analog and digital communication systems.

All courses in this program completed with a grade of C or better may be applied toward the Electronics Engineering Technology Associate in Applied Science degree program.

Admission to the certificate program requires a high school diploma or equivalent with two years of algebra and one year of laboratory science (chemistry or physics preferred). In a particular year, some required courses may be available only during the day or evening.

SEE ALSO:

Electronics Engineering Technology degree program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

ENGR.ELCT.CERT
CIP 150303

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ENG 101	English Composition I (3/0)	3
EET 138	Introduction to Electronics I (3/3)	4
EET 139	Introduction to Electronics II (3/3)	4
EET 219	Electronic Networks (3/3)	4
EET 251	Digital Circuit Fundamentals (3/3)	4
MAT 146	Pre-Calculus (4/0)	4

- MAT 151 is an acceptable alternative.

— —	Technical electives	12

- All selections require program advisor approval. Recommended: EET 140, 145, 214, 230, 263, 266.

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Engineering Science

Associate in Science Degree (A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Engineering Science** A.S. degree program prepares students to transfer to a baccalaureate degree program in Engineering. Students develop a strong foundation in mathematics, physics and chemistry, with emphasis on engineering applications and use of the computer as a problem-solving tool. A strong general education curriculum helps students develop communication and analytical skills.

Engineering is a profession that integrates science and mathematics with design and laboratory study. It is and will continue to be the profession upon which the United States depends for its growth and ability to compete in world markets. Engineering offers more career options than any other discipline. Engineers are behind almost all of today's exciting technology. Engineers are problem solvers who search for quicker, better, and less expensive ways to use the forces and materials of nature to meet today's challenges.

PROGRAM OUTCOMES

- Analyze engineering drawings, demonstrating an understanding of the concept of scale and orthographic projection;
- Assist engineers and technologists in performing tasks relevant to the chosen branch of engineering;
- Complete written engineering reports;
- Write computer programs to solve engineering-based problems;
- Complete computer-aided design (CAD) drawings;
- Communicate effectively both verbally and in writing;
- Demonstrate effective mathematical skills and application of scientific principles in solving engineering problems;
- Apply critical thinking and problem-solving skills in the analysis of data, design of experimental procedures, and evaluation of outcomes;
- Transfer to a four-year institution in an ABET-accredited engineering program with a major in civil, computer, electrical, industrial, mechanical, biomedical, chemical, environmental, or architectural engineering.

SEE ALSO:
Civil Engineering Technology degree program
Engineering Science certificate program

DEGREE CURRICULUM

2021-2022 Academic Year
ENGR.SCI.AS
CIP 141301

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (Foundations courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CHE 101	General Chemistry I (3/3)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ENG 101	English Composition I (3/0)	3	
MAT 151	Calculus I for the Mathematical and Physical Sciences (4/0)	4	
PHY 115	University Physics I (3/3)	4	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

CIV 103	Statics (3/0)	3
CIV 105	Introduction to Engineering (1/0)	1
ENG 102	English Composition II (3/0)	3
MAT 152	Calculus II for the Mathematical and Physical Sciences (4/0)	4
PHY 215	University Physics II (3/3)	4

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

CIV 230	Mechanics of Solids (3/3)	4
CMN 112	Public Speaking (3/0)	3
ECO 112	Microeconomics (3/0)	3
ENT 116	Engineering Graphics (1/2)	

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

	OR	2
[DRA 190](#)	Introduction to Computer-Aided Drafting (1/2)	
[MAT 251](#)	Calculus III (4/0)	4

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in [activities and clubs](#).

✓ Manage your stress! Take advantage of the MCCC pool, [Fitness Center](#), free yoga and Zumba. Reach out for [counseling](#) or other support if you need it. Your [Success Coach](#) can connect you with resources.

FOURTH SEMESTER

[COS 101](#)	Introduction to Computer Science (3/2)	4
[MAT 252](#)	Differential Equations (4/0)	4
— —	[Humanities general education elective](#)	3
— —	[Social Science or Humanities general education elective](#)	3

✓ Apply for [financial aid](#) by May 1.

✓ Talk to your faculty advisor and the [Transfer office](#) for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at [www.mccc.edu/m-scholarships](#).

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NOTE: Select courses in consultation with an academic advisor in order to assure maximum transfer of credits.

Engineering Science

Transfer Certificate

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The certificate program in **Engineering Science** generally prepares students for transfer to the sophomore year of a four-year college in a specific engineering program major.

PROGRAM OUTCOMES

- Apply the principles of physics to the solution of engineering problems;
- Use calculus in the solution of engineering problems;
- Present information in written or graphic form.

The complete program is available full-time or part-time. Day students usually complete several required courses in the evening.

Admission requires a high school diploma or its equivalent with the mathematical preparation (advanced algebra and trigonometry) needed for college-level calculus. At least one year of a laboratory science (chemistry or physics) is required. Both sciences are preferred. Applicants will be evaluated according to test scores or other available indicators of potential success in this demanding university-parallel program.

Those who do not meet established admission criteria are strongly advised to enroll in Civil Engineering Technology or Electronics Engineering Technology. These engineering technology programs help students determine their skills in engineering while they are developing their English and/or math skills. After one successful year in an engineering technology program, students may reapply to the Engineering Science program.

SEE ALSO:
Civil Engineering Technology degree program
Engineering Science degree program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

ENGR.SCI.CERT
CIP 141301

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
CHE 101	General Chemistry I (3/3)	4
ENG 101	English Composition I (3/0)	3
MAT 151	Calculus I (4/0) Provisional acceptance may be granted to students not prepared for MAT 151, but serious consideration should be given to entering an engineering technology program. Provisionally accepted students should select MAT entry level from MCCC placement guidelines and must be alert to MAT pre/corequisites for other desired courses.	4
PHY 115	University Physics I (3/3)	4
COS —	Elective COS 101 or another computer science course approved by an advisor. Students wishing to transfer to Rutgers University should take COS 102.	4
CHE 102	General Chemistry II (3/3)	4
ENG 102	English Composition II (3/0)	3
ENT 116	Engineering Graphics (1/2)	
	OR	2
DRA 190	Introduction to Computer-Aided Drafting (1/2)	
MAT 152	Calculus II (4/0)	4
PHY 215	University Physics II (3/3)	4
		36

NOTE: Select courses in consultation with an academic advisor in order to assure maximum transfer of credits.

Entertainment Technology

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

Liberal Arts Division
 609.570.3378 admiss@mccc.edu

The Associate in Applied Science in **Entertainment Technology** prepares students for careers in the entertainment industry. There are two concentrations.

The **Technical Theatre** concentration (ETT.THR.AAS) prepares graduates for careers as lighting and sound technicians, technical managers, equipment marketing representatives, and technical personnel for distributors and rental houses. Additional career options include the allied fields of film and television production; trade show exhibition; club, casino, and theme park operations; and all related performing arts production.

PROGRAM OUTCOMES

- Demonstrate entry-level professional competence as a lighting and sound technician;
- Write lighting and sound cues for all related performing arts productions;
- Design lights or sound for concert, stage, and video;
- Work cooperatively with colleagues;
- Create a soundtrack for theatre, film, or concert performances;
- Set up and operate lighting and sound control systems;
- Demonstrate basic proficiency using digital audio workstations and professional sound editing programs;
- Troubleshoot common technical problems encountered when using complex combinations of lighting, sound, and video equipment.

Students are expected to become involved in the technical, managerial, and performance aspects of college theatre productions and other entertainment activities. All students are required to complete a practicum in entertainment technology.

The **Music Technology** concentration (ETT.MUS.AAS) integrates music theory and performance with a comprehensive array of technical and business skills that enable the graduate to pursue a variety of career tracks in the music industry such as record producer, recording engineer, remix engineer, sound technician for live shows and concerts, as well as careers in the field of film scoring and film music editing. Other career options in the

music entertainment industry include artist development and management, promotion, and marketing.

PROGRAM OUTCOMES

- Demonstrate basic proficiency at the piano keyboard;
- Demonstrate a working knowledge of music theory, including note reading, scale and chord construction, and the principles of voice leading and composition;
- Understand the history of African American music of the 20th century and its relevance to contemporary popular music;
- Create original musical compositions and record those compositions using MIDI sequencing software, a Macintosh computer and Windows-based PC, and MIDI synthesizer keyboard;
- Demonstrate a working knowledge of the music business, including copyright and contract law, artist management, and marketing strategies;
- Demonstrate entry-level professional competence as a sound technician;
- Set up sound reinforcement equipment;
- Demonstrate entry-level competence as a technical manager in the entertainment industry.

Since most business- and technology-related careers in the entertainment industry require additional training and experience, students may take advantage of the many internship programs now available, such as those offered by Sony Music in New York, Disney Productions in Florida, and Passage Theatre as well as Boehme Opera Company in Trenton.

Alternatively, students may choose to matriculate at one of the growing number of four-year institutions now offering a baccalaureate degree in music business and technology or entertainment technology. Students have transferred to Stockton State University, Ramapo College, Temple University, Mercy College in Westchester, NY, and The College of New Jersey.

The latest equipment and software is provided for student use in both concentrations. Professional equipment includes the latest high-end moving lights, color changers, color mergers, lighting control, digital and analog sound mixers, signal processors, sound production software, sequencing software, MIDI controllers, and multi-track digital recording.

Our facilities include a black box theatre fully equipped with lighting and sound equipment, a sound lab with 14 high-end digital audio workstations and three control surfaces, in addition to studios for multi-track live recording.

The Entertainment Technology program may be pursued part-time or full-time and may be completed by daytime or evening attendance. Admission requires a high school diploma or its equivalent.

DEGREE CURRICULUM

2021-2022 Academic Year
ETT.THR.AAS
CIP 509999

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (Foundations courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ENG 101	English Composition I (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ETT 102	Introduction to the Entertainment Industry (2/2)	3	
MAT 125	Elementary Statistics I (3/0)	3	
THR 101	Introduction to Theatre (3/0)		
	OR	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
MUS 103	Introduction to Music (3/0)		
— —	Diversity and Global Perspective general education elective	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

Course	Title	Credits
CMN 153	Digital Audio Production I (2/2)	3
	• Students in the Entertainment Technology program take ETT 102 (not CMN 151) as a prerequisite for CMN 153.	
ENG 102	English Composition II (3/0)	3
ETT 200	Technical Production (1/90 hours)	1
THR 102	Stagecraft (2/2)	3
THR 152	Lighting Technology (2/2)	3
THR 210	Theatre History: Classical to Elizabethan (3/0)	
	OR	3
THR 212	Central Voices in World Drama (3/0)	

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

Course	Title	Credits
ART 122	History of Art II (3/0)	
	OR	3
CMN 107	Cinema (3/0)	
CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

CMN 254	Live Sound Reinforcement (2/2)	3	✓ Develop team and leadership skills by getting involved in activities and clubs.
THR 150	Scenic Techniques (2/2)	3	
— —	Social Science general education elective	3	

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

CMN 255	Sound Design (1/4)	3	✓ Get ready to start your career! Begin the job application process.
ETT 205	Arts and Entertainment Management (3/0)	3	
ETT 290	Entertainment Technology Internship	2	✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.
PHY 111	Physical Science Concepts (2/2)	3	
THR 252	Lighting Design (2/2)	3	

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DEGREE CURRICULUM

2021-2022 Academic Year

ETT.MUS.AAS
CIP 509999

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (Foundations courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CMN 153	Digital Audio Production I (2/2) • Students in the Entertainment Technology program take ETT 102 (not CMN 151) as a prerequisite for CMN 153.	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree. ✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning. ✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
ENG 101	English Composition I (3/0)	3	
MAT 120	Mathematics for Liberal Arts (3/0)	3	
MUS 105	Fundamentals of Music Theory (3/0)	3	
MUS 121	Piano Class I (0/2)	1	
MUS 156	The History of American Pop Music (3/0)	3	

SECOND SEMESTER

CMN 253	Digital Audio Production II (2/2)	3
ENG 102	English Composition II (3/0)	3
MUS 123	Music Business (3/0)	3
MUS 127	Music Theory I (2/2)	3
MUS 155	History of Jazz and Blues (3/0)	3
MUS 167	Musicianship I (0/2)	1

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
CMN 254	Live Sound Reinforcement (2/2)	3
CMN 256	Digital Audio Production III (2/2)	3
MUS 122	Piano Class II (0/2)	

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

	OR	1	
MUS 142	Guitar Class I (1/1)		
— —	Diversity and Global Perspective general education elective	3	
— —	Social Science general education elective	3	

FOURTH SEMESTER

CMN 255	Sound Design for the Entertainment Industry (1/4)	3	
ETT 205	Arts and Entertainment Management (3/0)	3	
MUS 235	Music Composition in the Virtual Studio (2/2)		
	OR	3	
THR 152	Lighting Technology (2/2)		
PHY —	Lab Science general education elective	3	

- Select from the PHY category of general education courses. PHY 111 recommended.

✓ Get ready to start your career! Begin the job application process.

✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

Entrepreneurial Management

Certificate of Achievement

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Entrepreneurial Management** micro-credential meets the needs of professionals seeking a management or general business credential. In addition, the courses support those looking to start their own business.

According to a recent report, between July 2019 and July 2020 there were 1826 job postings related to general and operations managers in just Mercer County alone. At any given time in this country, 7000 to 10,000 people are considering starting a new business. In the last decade, small businesses have outstripped large companies as incubators of new jobs.

Demand for micro-credentials has been growing in the United States, with workers seeking short-term opportunities to gain skills for either horizontal or vertical movement in their careers.

PROGRAM OUTCOMES

- Create and analyze accounting reports to determine profitability, solvency, and liquidity of a business;
- Implement effective methods to attract and retain customers;
- Use terminology common to the business environment for effective communication;
- Apply organizational theory to management practice;
- Analyze/resolve problems common to small businesses;
- Understand the legal environment of business to make informed management decisions;
- Create a business plan.

The credential, as opposed to a 30-credit certificate, can be completed in just one or two semesters. But all credits earned in acquiring this micro-credential can be applied toward both the Small Business Management certificate and Business Studies degree programs.

Admission to the program requires readiness for college-level English and Math and approval from the program coordinator. Students may receive credit for previous training in a skills area by applying for credit by examination, credit by experience, and/or transfer credit as evaluated and approved by the program coordinator.

SEE ALSO:
Business Administration degree program
Business Studies degree program
Small Business Management certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

BUS.ENT.CRT
CIP 520701

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
FIRST SEMESTER		
ACC 106	Office Accounting I (3/0)	3
BUS 107	Business Law I (3/0)	3
SECOND SEMESTER		
BUS 210	Principles of Management (3/0)	3
	• Consult program coordinator concerning ENG 101 prerequisite.	
BUS 239	Entrepreneurship (3/0)	3
	• Consult program coordinator concerning ENG 101 prerequisite.	
MKT 101	Principles of Marketing (3/0)	
	• Consult program coordinator concerning ENG 101 prerequisite.	
	OR	3
BUS 240	Human Resource Management (3/0)	
	• Consult program coordinator concerning ENG 101 prerequisite.	
		15

Exercise Science

Associate in Science Degree (A.S.)

Health Professions Division
609.570.3383 admiss@mccc.edu

The **Exercise Science** program provides the opportunity for students to acquire the skills, knowledge, and experience necessary to enter the continually evolving field of exercise science and to transfer into related baccalaureate programs.

Exercise Science offers a variety of career opportunities, such as those involving coaching, education, exercise physiology, exercise research, health promotion and program management, personal training, rehabilitative exercise, and sport-specific athletic performance.

The program prepares students to take the National Strength and Conditioning Association's Certified Personal Trainer (NSCA-CPT) exam. It also incorporates certification for First Aid Cardio-Pulmonary Resuscitation (CPR) for the Professional, and Automated External Defibrillator (AED).

Admission to the program requires a high school diploma or its equivalent.

PROGRAM OUTCOMES

- Succeed academically upon transfer to a baccalaureate program related to exercise science;
- Secure employment in the field of exercise science;
- Demonstrate the knowledge, skills, and ethical integrity necessary to succeed and grow as a health, wellness, fitness, and/or athletic performance professional;
- Apply scientific and physiological principles to the promotion and enhancement of health, wellness, fitness, and athletic performance;
- Assess and evaluate an individual's health and performance;
- Prescribe workouts for generally healthy individuals as well as for athletic populations and those with special considerations;
- Conduct safe and effective training sessions with generally healthy individuals.

DEGREE CURRICULUM

2021-2022 Academic Year

EXER.SCI.AS
CIP 310505

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
BIO 103	Anatomy and Physiology I (3/3)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CSH 100	College Success for Health Professions (1/1) • Some exemptions apply. Consult academic advisor for details.	2	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
HPE 151	Introduction to Exercise Science (1/0)	1	
MAT 125	Elementary Statistics I (3/0)	3	
PSY 101	Introduction to Psychology (3/0)	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

BIO 104	Anatomy and Physiology II (3/3)	4
ENG 102	English Composition II (3/0)	3
HPE 111	Living with Health (3/0)	
	OR	
HPE 105	First Aid, CPR, and AED (2/2)	3
	OR	
HPE 113	Medical Terminology (3/0)	
HPE 134	Prevention, Assessment and Care of Athletic Injuries (3/0)	3
HPE 171	Personal Fitness (1/0)	1

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
HPE 164	Principles of Coaching (3/0)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

HPE 242	Exercise Measurement and Prescription (2/3)	3	✓ Complete your applications to desired transfer institutions.
PTA 105	Kinesiology (3/0)	3	
— —	General Education elective	3	✓ Develop team and leadership skills by getting involved in activities and clubs.

- Select from ART 101; DAN 101; ECO 103; HIS 101, 102, 105, 106, 109, 112, 113; MUS 103; PHI 102, 113, 123, 204, 205; PHO 110; POL 101, 102, 201; PSY 206, 207; SOC 101, 107, 201; THR 101; any World Language course.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

HPE 101	Basic Concepts of Nutrition (3/0)	3	✓ Apply for financial aid by May 1.
HPE 241	Applied Exercise Physiology (2/2)	3	
HPE 243	Exercise Science Field Experience (225 hours)	3	✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.
— —	Humanities general education elective	3	

- Select from ART 101; DAN 101; MUS 103; PHI 102, 113, 123, 204, 205; PHO 110; THR 101; any World Language course.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

— —	General Education elective	3	

- Select from ART 101; DAN 101; ECO 103; HIS 101, 102, 105, 106, 109, 112, 113; MUS 103; PHI 102, 113, 123, 204, 205; PHO 110; POL 101, 102, 201; PSY 206, 207; SOC 101, 107, 201; THR 101; any World Language course.

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NOTE: Students must earn a minimum grade of C in all required BIO, PTA, and HPE courses to graduate.

2021-2022 Academic Year

Fashion/Apparel Design
Associate in Applied Science Degree in Visual Arts (A.A.S.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Fashion/Apparel Design** A.A.S. degree prepares students for entry into the dynamic world of fashion or for further study at a four-year institution. The tri-state metro area of New York, New Jersey, and Pennsylvania is one of the nation's largest regions for the fashion/apparel industry, where skilled students can seek opportunities as assistant fashion designers, stylists, visual display artists, product and merchandise managers, and fashion illustrators.

The Fashion/Apparel Design program is highly interdisciplinary, providing a strong foundation in art, design, and technical studies while developing a perspective on both the creative and business aspects of the industry. The program also prepares students for advanced study at four-year colleges by paralleling the first two years of course requirements at several institutions. While the design sequence emphasizes core creative art skills, technical training focuses on computer applications used in the industry and sewing labs structured to mirror those of actual fashion/ apparel studios.

In addition to coursework, students focus on portfolio development throughout the program, and finalize a professional product in both hard copy and digital format in a capstone course. Students take advantage of field studies at design and/or production houses and have an opportunity to showcase their work in an annual fashion show.

The program may be pursued full-time or part-time. Some courses may only be offered during the day.

PROGRAM OUTCOMES

- Develop foundation art skills to apply to fashion/apparel design development;
- Develop and present ideas effectively in both written and oral formats;
- Understand current trends in the fashion industry from a global perspective;
- Demonstrate knowledge of a wide range of textiles and manufacturing processes;
- Use specialized computer applications to create fashion/apparel design elements;
- Drape fabrics on a dress form in preparation for pattern-making and sewing;
- Develop sewing skills/techniques to produce finished garments;
- Design and produce individual fashion and apparel pieces;
- Understand the basic principles of merchandising;
- Create a portfolio for use in transferring or gaining employment.

SEE ALSO:

DEGREE CURRICULUM

2021-2022 Academic Year

FASH.APP.AAS
CIP 500407

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (Foundations courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ART 102	Basic Drawing (1/4)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ART 105	Two-Dimensional Design (1/4)	3	
ENG 101	English Composition I (3/0)	3	
FAS 105	Fashion: The Global Marketplace (3/0)	3	
MAT —	Mathematics elective	3	✓ Use your online tools: Check your MercerMaildaily, utilize features of Office 365, and get to know Student Planning.

- MAT 120 or 125 recommended. Select in consultation with an academic advisor.

✓ Use your online tools: Check your MercerMaildaily, utilize features of Office 365, and get to know Student Planning.

✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

ART 104	Life Drawing (1/4)	3
CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
FAS 120	Introduction to Fashion Industries (1/4)	3
FAS 130	Introduction to Textiles for Fashion (3/0)	3
FAS 150	Technical Skills for Apparel Production I (1/4)	3

✓ Transitioning to college can be challenging. Meet with your Success Coachfor guidance and support.

✓ Apply for financial aidby May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

ART 122	History of Art II (3/0)	
	OR	3
ART 125	Topics in Contemporary Art (3/0)	
ENG 102	English Composition II (3/0)	3
FAS 110	Introduction to Fashion Drawing (1/4)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans

| FAS 140 | Fashion Technology (1/4) | 3 |
| FAS 250 | Technical Skills for Apparel Production II (1/4) | 3 |

FOURTH SEMESTER

ART 106	Three-Dimensional Design (1/4)	3
FAS 205	Fashion Visual Merchandising and Display (3/0)	
	OR	3
FAS 220	History of Costume Design (3/0)	
FAS 260	Fashion Industries Capstone and Portfolio (1/4)	3
HIS 113	World History Since 1500 (3/0)	3
— —	Science OR Technology general education elective	3

- DMA 144 recommended.

✔ Get ready to start your career! Begin the job application process.

✔ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

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Fashion Merchandising

Associate in Applied Science Degree in Business Management (A.A.S.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Fashion Merchandising** option of the Business Management A.A.S. degree prepares students for careers in fashion/apparel sales, marketing, buying, and merchandising. Positions available to those with this educational specialization include retail merchandiser, planning and allocation, fashion/apparel sourcing specialist, and wholesale or retail buying manager.

The program also prepares students for advanced study in business or marketing in a fashion/apparel-related program. The MCCC Fashion Merchandising curriculum parallels the first two years of education at a majority of undergraduate universities and art colleges, with an emphasis on career training for gainful employment. The two-year experience allows students to develop a perspective by combining fashion studies with business and general education courses.

Successful graduates of the Fashion Merchandising option will be qualified for entry-level positions in the field of fashion merchandising, buying, retail planning, and marketing. After graduation, students may either begin their careers or choose to transfer to bachelor degree programs at colleges offering Fashion Merchandising degrees.

PROGRAM OUTCOMES

- Apply computational skills relevant to the fashion and retail industries;
- Demonstrate knowledge of the fashion industry from concept to consumer;
- Use the principles of marketing to perform duties required of entry-level fashion merchandising/marketing positions;
- Develop an appreciation for style and product quality;
- Communicate and present ideas in both written and oral formats;
- Demonstrate customer service and management techniques applicable to the fashion industry;
- Understand how the global economy and international events affect domestic business decisions.

Students may study full-time or part-time and may receive credit for previous training by applying for credit-by-experience, credit-by-articulation, or credit-by-examination. Some courses may only be offered during the day. Students should consult with their academic advisor to ensure adherence to the correct sequence of courses.

Admission to the program requires a high school diploma or its equivalent.

SEE ALSO:

Fashion/Apparel Design degree program

DEGREE CURRICULUM
2021-2022 Academic Year
FASH.MRCH.AAS
CIP 521902

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
BUS 101	Introduction to Business (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ENG 101	English Composition I (3/0)	3	
FAS 105	Fashion: The Global Marketplace (3/0)	3	
IST 101	Computer Concepts with Applications (2/2)	3	
MAT —	Mathematics elective	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
	• MAT 120 or 125 recommended. Select in consultation with an academic advisor.		✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
ENG 102	English Composition II (3/0)	3
FAS 120	Introduction to Fashion Industries (1/4)	3
FAS 130	Introduction to Textiles for Fashion (3/0)	3
MKT 101	Principles of Marketing (3/0)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

ACC 106	Office Accounting I (3/0)	3
CIS 175	PC Applications: Spreadsheets (2/2)	3
FAS 205	Fashion Visual Merchandising and Display (3/0)	3
FAS 220	History of Costume Design (3/0)	3
— —	General Education elective	3

- Select in consultation with an academic advisor.

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting

involved in activities and clubs.

✔ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✔ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

BUS 239	Entrepreneurship (3/0)	3
ECO 103	Basic Economics (3/0)	3
FAS 230	Fundamentals of Fashion Retail Buying and Merchandising (3/0)	3
FAS 260	Fashion Industries Capstone and Portfolio (1/4)	3
PHI 204	Ethics (3/0)	3

✔ Get ready to start your career! Begin the job application process.

✔ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

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Fire Science Technology

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

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The associate degree program in **Fire Science Technology** provides students with the skills and knowledge to become highly competitive candidates for entry and/or advancement as professional and volunteer fire and emergency services personnel.

The FIR 110 course (Fire Prevention and Code Enforcement I) meets the educational requirements of the New Jersey Division of Fire Safety for Fire Inspector. FIR 209 (Fire Prevention and Code Enforcement II) meets the educational requirements for Fire Official. Students seeking a career in fire code enforcement are encouraged to check with the New Jersey Division of Fire Safety for other certification requirements.

Based on a national curriculum that promotes learning and advocacy of critical emergency service leadership and fire safety principles, the associate degree program integrates technical study with coursework in mathematics, English, physical science, and liberal arts to provide graduates with the necessary ancillary knowledge to advance into supervisory and/or management-level positions.

PROGRAM OUTCOMES

- Discuss the history, support organizations, resources, incident management, training, and emergency operations and relate how each plays a role within the fire service;
- Define and use basic terms and concepts associated with the chemistry and dynamics of fire;
- Apply principles of hydraulics, building construction, strategy, and tactics to fire ground operations;
- Communicate the relationship of fire prevention and fire inspection;
- Demonstrate the importance of public education in relation to fire prevention;
- Evaluate facilities to appraise code compliance and potential hazards, building construction issues, and presence of appropriate fire protection systems to help ensure life safety both pre-incident and during an incident;
- Employ safe work practices using recognized standards and regulations.

Students pursuing programs in fire science should be aware that various municipal and industrial fire service agencies establish physical, mental, and character requirements. Persons interested in this option are advised to gain an awareness of the specific requirements for their desired work setting. MCCC graduates are employed by city, state, and federal departments dedicated to the fire services field.

Since the degree program is designed to meet the needs of the part-time student, it normally will take a minimum of three years to complete. All fire science courses are offered in the evening.

Fire Science Technology is not designed as a transfer program and some credit loss may occur for those who intend to continue their education at a four-year institution. Students interested in transferring should contact the program advisor early in their coursework at MCCC.

Admission to the program requires a high school diploma or its equivalent and competency in English and mathematics as demonstrated by placement testing.

DEGREE CURRICULUM
2021-2022 Academic Year
FIRE.SCI.AAS
CIP 430201

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CSW 100	College Success and Personal Wellness (2/0) • Some exemptions apply. Consult academic advisor for details.	2	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ENG 101	English Composition I (3/0)	3	
FIR 101	Introduction to Fire Science (3/0)	3	
FIR 104	Building Construction (3/0)	3	

MAT —	Mathematics elective	3	

- MAT 120 or 125 recommended. Select in consultation with an academic advisor.

SECOND SEMESTER

ENG 112	English Composition II with Speech (3/0)	3	
FIR 202	Water Supply for Fire Protection (3/0)	3	
FIR 204	Fire Fighting Tactics (3/0)	3	
FIR —	Fire Science elective	3	

- Select from FIR 205, 206, 208, 209, 211.

— —	Social Science or Humanities general education elective	3	

THIRD SEMESTER

PHY 111	Physical Science Concepts (2/2)	3
FIR 110	Fire Prevention and Code Enforcement I (6/2)	7
FIR —	Fire Science elective	3

- Select from FIR 205, 206, 208, 209, 211.

— —	General Education elective	3

- Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

FIR 201	Hazardous Materials I (3/0)	3
FIR 203	Fire Protection Systems (3/0)	3
FIR —	Fire Science elective	3

- Select from FIR 205, 206, 208, 209, 211.

✓ Get ready to start your career! Begin the job application process.

✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

FIR	—	Fire Science elective	3

- Select from FIR 205, 206, 208, 209, 211.

—	—	General Education elective	3

- Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

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2021-2022 Academic Year

Funeral Service
Associate in Applied Science Degree (A.A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The goals and objectives of the MCCC **Funeral Service** programs are: to provide students with professional training in preparation for licensure in Funeral Service; to prepare students to embark upon a career in a service-oriented, care-giving profession; to provide an academic environment which encourages student research and successfully integrates the theoretical, practical, and technical aspects of funeral service; and to foster the concept of education as a life-long process necessary to meet the demands of an evolving workplace with current emphasis on emerging ethical, environmental, and social issues.

Academic emphasis includes the areas of business management; public health; the social, behavioral, and natural sciences; as well as the legal, technical, and regulatory aspects of funeral service.

Students have two options for completion of their professional education: Funeral Service Certificate and Funeral Service Associate in Applied Science degree. Both programs can be completed either full- or part-time.

Following consultation with the Program Director, the A.A.S. degree program may be selected as a graduation option (not an admissions option) in order to ensure that candidates have the requirements for licensure in their selected state.

Students are responsible for securing part-time employment in an approved New Jersey or eastern Pennsylvania funeral home in order to complete the field experience and practicum courses. This requires the student to be registered as an Intern with the New Jersey State Board of Mortuary Science or as a Funeral/Student Trainee with the Pennsylvania Board of Funeral Directors.

Upon completion of all coursework, graduates will be eligible to take the National Board Exam (NBE). Following the NBE, graduates will be cleared to take state licensing examinations.

PROGRAM OUTCOMES

- Evaluate the service needs for the pre-need, at-need, and aftercare time frames;
- Create and plan activities and ceremonies designed to meet the needs of those who mourn;
- Educate the consumer regarding funeral and cremation memorialization and merchandise options;
- Evaluate and describe solutions to current embalming and restorative art situations;
- Assemble and formulate appropriate information for death certificates, obituaries, and other necessary forms and documents;
- Evaluate legal, professional, and ethical issues facing funeral service;
- Demonstrate effective verbal and written communication skills in face to face meetings, in front of small groups, and via electronic means.

The annual passage rate of first-time takers on the National Board Examination (NBE) for the most recent three-year period for this institution and all ABFSE accredited funeral service education programs is posted on the ABFSE website (www.abfse.org).

The Funeral Service program at Mercer County Community College is accredited by the
American Board of Funeral Service Education (ABFSE)
992 Mantua Pike, Suite 108
Woodbury Heights, NJ 08097
816-233-3747 / exdir@abfse.org / www.abfse.org

National Board Examination pass rates, graduation rates (beginning in 2015), and employment rates (beginning in 2015) for this and other ABFSE-accredited programs are available at www.abfse.org. To request a printed copy of this program's pass rates and graduation rates: West Windsor Campus room BS105, e-mail daleym@mccc.edu or rosenbej@mccc.edu, or telephone (609) 570-3472 or 570-3474.

SEE ALSO:
Funeral Service certificate program
Funeral Service Preparatory degree program

DEGREE CURRICULUM
2021-2022 Academic Year
FUNERAL.AAS
CIP 120301

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CSW 100	College Success and Personal Wellness (2/0) • Some exemptions apply. Consult academic advisor for details.	2	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ENG 101	English Composition I (3/0)	3	
PSY 101	Introduction to Psychology (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
MAT —	Mathematics general education elective • 100-level or higher	3-4	
— —	General Education elective • Select course from the following general education categories: Humanities, Historical Perspective, Diversity and Global Perspective.	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
SECOND SEMESTER			
ACC 106	Office Accounting I (3/0)	3	✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.
BIO 106	Human Anatomy (3/2) • BIO 103 and 104 may be substituted.	4	✓ Apply for financial aid by May 1.
BUS 107	Business Law I (3/0)	3	✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.
ENG 112	English Composition II (3/0) with Speech (3/0)	3	
CHE —	Chemistry elective	3	

- CHE 100 or higher.

THIRD SEMESTER

FUN 203	Funeral Service Principles (3/0)	3
FUN 206	Introduction to Funeral Service (3/0)	3
FUN 215	Funeral Service Law (3/0)	3
FUN 247	Principles of Embalming I (3/0)	3
FUN 223	Funeral Service Pathology (3/0)	3
FUN 251	Embalming Lab and Practicum (0/3/2 days)	3

- In addition to lab and/or seminar, these courses include two days (16 hours per week) of supervised off-campus field experience in an approved funeral service firm for each semester. Students must also be registered as an intern with the New Jersey State Board of Mortuary Science or as a student trainee with the Pennsylvania Board of Funeral Directors. Registration with the New Jersey State Board of Mortuary Science enables the student to receive credit toward the New Jersey internship requirement.

FOURTH SEMESTER

FUN 217	Funeral Service Management (3/0)	3	✓ Get ready to start your career! Begin the job application process.
FUN 227	Restorative Art (2/2)	3	
BIO 215	Principles of Microbiology (3/0)	3	✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.
FUN 249	Principles of Embalming II (2/0)	2	
FUN 229	Funeral Service Counseling (3/0)	3	
FUN 220	Funeral Service Laws, Rules and Regulations (1/0)	1	
FUN 295	Funeral Service Field Experience (2/0/2 days)	3	

- In addition to lab and/or seminar, these courses include two days (16 hours per week) of supervised off-campus field experience in an approved funeral service firm for each semester. Students must also be registered as an intern with the New Jersey State Board of Mortuary Science or as a student trainee with the Pennsylvania Board of Funeral Directors. Registration with the New Jersey State Board of Mortuary Science enables the student to receive credit toward the New Jersey internship requirement.

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NOTE: Enrollment in any FUN course requires approval of the Director of Funeral Service Programs. New Jersey and Pennsylvania students must complete 60 college credits before enrolling in FUN courses. At the conclusion of the program, the student will have a minimum of 96 credits.

Funeral Service

Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Funeral Service** certificate program completes the educational requirements for licensure in Funeral Service. Admission to the certificate program and/or enrollment in any FUN course requires two years (60 credits) of prior college education at a regionally accredited institution of higher education (or completion of the Funeral Service Preparatory program). Class size is limited.

Applicants to the certificate program must complete prerequisite courses of Anatomy and Physiology I and II (BIO 106 fulfills this requirement), accounting, business law, chemistry, psychology, and English composition with a minimum grade of C. An overall C+ cumulative grade point average is required for admission.

Students are responsible for securing part-time employment in an approved New Jersey or eastern Pennsylvania funeral home in order to complete the field experience and practicum courses. This requires the student to be registered as an Intern with the New Jersey State Board of Mortuary Science or as a Funeral/Student Trainee with the Pennsylvania Board of Funeral Directors.

The goals and objectives of the MCCC Funeral Service programs are: to provide students with professional training in preparation for licensure in funeral service; to prepare students to embark upon a career in a service-oriented, care-giving profession; to provide an academic environment which encourages student research and successfully integrates the theoretical, practical, and technical aspects of funeral service; and to foster the concept of education as a life-long process necessary to meet the demands of an evolving workplace with current emphasis on emerging ethical, environmental, and social issues.

Academic emphasis includes the areas of business management; public health; the social, behavioral, and natural sciences; as well as the legal, technical, and regulatory aspects of funeral service.

Upon completion of all coursework, graduates will be eligible to take the National Board Exam. Following the NBE, graduates will be cleared to take state licensing examinations.

PROGRAM OUTCOMES

- Evaluate the service needs for the pre-need, at-need, and aftercare time frames;
- Create and plan activities and ceremonies designed to meet the needs of those who mourn;
- Educate the consumer regarding funeral and cremation memorialization and merchandise options;
- Evaluate, describe, and implement solutions to current embalming and restorative art situations;
- Assemble and formulate appropriate information for death certificates, obituaries, and other necessary forms and documents;
- Evaluate legal, professional, and ethical issues facing funeral service;
- Demonstrate effective verbal and written communication skills in face to face meetings, in front of small groups, and via electronic means.

Note: With proper planning, students anticipating Fall matriculation into the certificate program can normally complete the prerequisites in one Spring semester. Full-time matriculation in the day program is only available beginning in Fall semesters; full-time matriculation in the night program is only available in the Spring semester; part-time night matriculation is available both Spring and Fall semesters.

The annual passage rate of first-time takers on the National Board Examination (NBE) for the most recent three-year period for this institution and all ABFSE accredited funeral service education programs is posted on the ABFSE website (www.abfse.org).

The Funeral Service program at Mercer County Community College is accredited by the
American Board of Funeral Service Education (ABFSE)
992 Mantua Pike, Suite 108
Woodbury Heights, NJ 08097
816-233-3747 / exdir@abfse.org / www.abfse.org

National Board Examination pass rates, graduation rates (beginning in 2015), and employment rates (beginning in 2015) for this and other ABFSE-accredited programs are available at www.abfse.org. To request a printed copy of this program's pass rates and graduation rates: West Windsor Campus room BS105, e-mail daleym@mccc.edu or rosenbej@mccc.edu, or telephone (609) 570-3472 or 570-3474.

SEE ALSO:
Funeral Service degree program
Funeral Service Preparatory degree program

CERTIFICATE CURRICULUM

2021-2022 Academic Year
FUNERAL.CERT
CIP 120301

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
FUN 206	Introduction to Funeral Service (3/0)	3
FUN 247	Principles of Embalming I (3/0)	3
FUN 203	Funeral Service Principles (3/0)	3
FUN 223	Funeral Service Pathology (3/0)	3
FUN 215	Funeral Service Law (3/0)	3
FUN 295	Funeral Service Field Experience (2/0/2 days)	3

- In addition to lab and/or seminar, these courses include two days (16 hours per week) of supervised off-campus field experience in an approved funeral service firm for each semester. Students must also be registered as an intern with the New Jersey State Board of Mortuary Science or as a student trainee with the Pennsylvania Board of Funeral Directors. Registration with the New Jersey State Board of Mortuary Science enables the student to receive credit toward the New Jersey internship requirement.

Code	Course (lecture/lab hours)	Credits
ENG —	English Composition elective (3/0)	3

- Students having completed ENG 101, 102, 112, 209, 215, or 224 have fulfilled this requirement.

Code	Course (lecture/lab hours)	Credits
FUN 249	Principles of Embalming II (2/0)	2
FUN 217	Funeral Service Management (3/0)	3
FUN 227	Restorative Art (2/2)	3

FUN 229	Funeral Service Counseling (3/0)	3
BIO 215	Principles of Microbiology (3/0)	3
FUN 251	Embalming Lab and Practicum (0/3/2 days)	3

- In addition to lab and/or seminar, these courses include two days (16 hours per week) of supervised off-campus field experience in an approved funeral service firm for each semester. Students must also be registered as an intern with the New Jersey State Board of Mortuary Science or as a student trainee with the Pennsylvania Board of Funeral Directors. Registration with the New Jersey State Board of Mortuary Science enables the student to receive credit toward the New Jersey internship requirement.

FUN 220	Funeral Service Laws, Rules and Regulations (1/0)	1
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NOTE: Enrollment in any FUN course requires the approval of the Director of Funeral Service Programs.

2021-2022 Academic Year

Funeral Service Preparatory
Associate in Applied Science Degree in Business Management (A.A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

High school graduates and students with fewer than 30 college credits should select the **Funeral Service Preparatory** option of the Management program. This program prepares students for admission to the Funeral Service certificate program. Combining business subjects, health sciences and behavioral sciences, the option is designed to meet the New Jersey and Pennsylvania requirement for two years of college prior to the Funeral Service certificate program. (Funeral Service Preparatory or its equivalent must be completed in order to enter the Funeral Service certificate program or to take any FUN course.)

The goals and objectives of the MCCC Funeral Service programs are: to provide students with professional training in preparation for licensure in funeral service; to prepare students to embark upon a career in a service-oriented, care-giving profession; to provide an academic environment which encourages student research and successfully integrates the theoretical, practical, and technical aspects of funeral service; and to foster the concept of education as a life-long process necessary to meet the demands of an evolving workplace with current emphasis on emerging ethical, environmental, and social issues.

Academic emphasis includes the areas of business management; public health; the social, behavioral, and natural sciences; as well as the legal, technical, and regulatory aspects of funeral service.

Students in the program who have an affiliation with an approved funeral service firm can receive college credit for their work experience. These supervised, off-campus internship courses require 16 hours per week, and students must be registered with the New Jersey State Board of Mortuary Science or the Pennsylvania Board of Funeral Directors. Placement is each student's responsibility.

An advisory commission, consisting of active participants in funeral service, offers expertise to ensure that the Funeral Service programs meet the educational needs of future funeral directors.

PROGRAM OUTCOMES

- Develop the foundation for academic success in the Funeral Service program;
- Identify the economic, social, and ethical environment in which business entrepreneurs must operate;
- Investigate computer applications that will aid a successful funeral business;
- Demonstrate verbal and written communication skills in face to face meetings, in front of small groups, and via electronic means.

Admission to this program requires a high school diploma or its equivalent. Students should have two years of high school mathematics. Also recommended is one year each of high school laboratory science in biology and chemistry.

SEE ALSO:
Funeral Service degree program
Funeral Service certificate program

DEGREE CURRICULUM
2021-2022 Academic Year
FUNERAL.PRE.AAS
CIP 520201

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester

FIRST SEMESTER

Code	Course (lecture/lab hours)	Credits	To Do This Semester
BUS 101	Introduction to Business (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CSW 100	College Success and Personal Wellness (2/0) • Some exemptions apply. Consult academic advisor for details.	2	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
MAT —	Mathematics elective • Select from MAT 115, 120, 125. • Students planning to attend a four-year college should discuss course transfer options with an academic advisor.	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
BUS 211	Funeral Service Internship I (1/0/2 days) *		
	OR	2	
— —	Elective • Students planning to attend a four-year college should discuss course transfer options with an academic advisor.		

SECOND SEMESTER

Code	Course (lecture/lab hours)	Credits	To Do This Semester
ACC 106	Office Accounting I (3/0) • Students planning to attend a four-year college should discuss course transfer options with an academic advisor.	3	✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.
CHE 107	General and Physiological Chemistry (2/1/2)	4	✓ Apply for financial aid by May 1.
ENG 102	English Composition II (3/0)	3	✓ Contact professors with questions and use their

PSY 101	Introduction to Psychology (3/0)		3
SOC 101	Introduction to Sociology (3/0)		3
BUS 212	Funeral Service Internship II (1/0/2 days) *		
	OR		2
— —	Elective		

- Students planning to attend a four-year college should discuss course transfer options with an academic advisor.

THIRD SEMESTER

BIO 106	Human Anatomy (3/2)		4
BUS 210	Principles of Management (3/0)		3
MKT 101	Principles of Marketing (3/0)		3
— —	General Education elective		3

- Select course from the following general education categories: Humanities, Historical Perspective, Diversity and Global Perspective, Written and Oral Communication.

BUS 213	Funeral Service Internship III (1/0/2 days) *		
	OR		2
— —	Elective		

- Students planning to attend a four-year college should discuss course transfer options with an academic advisor.

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office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba.

FOURTH SEMESTER

BUS 107	Business Law I (3/0)	3
ECO 103	Basic Economics (3/0)	3

- Students planning to attend a four-year college should discuss course transfer options with an academic advisor.

IST 101	Computer Concepts with Applications (2/2)	3
BUS —	Business elective	3

- Recommended: BUS 108, 109, 209, 225, 240; MKT 106, 230.
- Students planning to attend a four-year college should discuss course transfer options with an academic advisor.

BUS 214	Funeral Service Internship IV (1/0/2 days) *	
	OR	2
— —	Elective	

- Students planning to attend a four-year college should discuss course transfer options with an academic advisor.

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* Supervised off-campus work experience in an approved funeral service firm for 16 hours per week. Students must also register with the New Jersey State Board of Mortuary Science or the Pennsylvania Board of Funeral Directors (depending upon the state in which they will be working). This registration enables New Jersey interns to receive credit toward their State internship requirement. Students may select a total of eight credits of electives in place of BUS 211, 212, 213, and 214 if they are not registered as interns or student trainees in Funeral Service Internship.

Game Design

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

The A.A.S. degree program in **Game Design** helps to prepare graduates for careers in the video game software industry, a relatively new and rapidly expanding industry. The New York City / northern New Jersey metro region is one of the ten largest in the country for video game design and development. Game Design is a highly interdisciplinary field drawing from a number of diverse areas such as art, writing, sound design, sociology, anthropology, computer technology, and programming.

The computer is the primary tool of expression in the program; however, emphasis is placed on the development of creative thinking as well as art and design skills. Students should expect to use and develop skills with scripting tools to program interactive functionality. Most coursework takes place in a studio using regularly updated professional-quality hardware and software on both Macintosh and PC computer platforms.

The Game Design program prepares graduates for positions as game designers, level designers, interface designers, producers, production assistants, and game artists. Typical employers include game design firms, entertainment software companies, educational resource development companies, interactive design companies, game development companies and research, government, and military organizations.

The Game Design program may be pursued full-time or part-time. Some courses may be offered only during the evening.

PROGRAM OUTCOMES

- Understand the historical development of game play;
- Apply the design process to the research and development of professional video game concepts;
- Apply narrative structures in the design of video games and levels;
- Describe and reference industry trends and technologies in video gaming;
- Design meaningful video game experiences and game mechanics appropriate to context;
- Create diagrams, storyboards, and prototypes to specify game design concepts;
- Develop games with level editing and scripting tools within industry standard game engines;
- Understand basic programming concepts and apply scripting languages to create interaction in game environments;
- Create 2D and 3D game art assets from game concepts, utilizing professional 2D digital imaging and 3D modeling and animation software;
- Work effectively on interdisciplinary teams producing functioning games and levels.

SEE ALSO:

DEGREE CURRICULUM

2021-2022 Academic Year
GAME.DESIGN.AAS
CIP 360113

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ART 102	Basic Drawing (1/4)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ART 105	Two-Dimensional Design (1/4)	3	
DMA 105	Introduction to Computer Art (1/4)	3	
ENG 101	English Composition I (3/0)	3	
GAM 120	Game Design Theory and Culture (1/4)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

ART 106	Three-Dimensional Design (1/4)	3
DMA 120	3-D Modeling I (1/4)	3
DMA 135	Digital Narrative (1/4)	3
ENG 102	English Composition II (3/0)	3
GAM 140	Game Design I (1/4)	3

✓ Transitioning to college can be challenging. Meet with your Success Coachfor guidance and support.

✓ Apply for financial aidby May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

ART 104	Life Drawing (1/4)	3
DMA 225	Computer Animation I (1/4)	3
GAM 145	Game Programming I (2/2)	3
GAM 240	Game Design II (1/4)	3
MAT —	Mathematics elective	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

- MAT 120 or 125 recommended. Select in consultation with an academic advisor.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

ART 125	Topics in Contemporary Art (3/0)	3
CMN 112	Public Speaking (3/0)	3
GAM 260	Game Development (1/4)	3
— —	Lab Science general education elective	3

- Select in consultation with an academic advisor.

— —	General Education elective	3

- Select course from the following general educationcategories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

✓ Get ready to start your career! Begin the job application process.

✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

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NOTE: Students must maintain a minimum grade of C in all GAM and DMA courses.

Game Programming

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

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The A.A.S. degree in **Game Programming** prepares students for careers in the video game industry. With advances in online social networks as well as console, stereoscopic, and smart phone technology fueling rapid expansion, the video game industry boasts revenues of around $24 billion in the United States alone, according to the newly formed Congressional Caucus for Competitiveness in Entertainment Technology (E-Tech Caucus).

The Game Programming program prepares students for a number of career options, including game designer, software engineer, artificial intelligence programmer, graphics engineer, physics programmer, and user interface scripter.

Typical employers include game design studios, entertainment software companies, and online entertainment and education companies. The New York City / northern New Jersey metro region is one of the ten largest in the country for video game development, accounting for more than 70 game-affiliated companies.

Students explore and analyze professional game engines, scripting languages, graphics, networks, physics, and other components of game development. Most coursework takes place in a studio using regularly updated professional-quality hardware and software on PC computer platforms. Moreover, in their last year of study, Game Programming students collaborate with students from the Game Design program to produce a full, playable video game.

PROGRAM OUTCOMES

- Understand the historical development of games;
- Describe and reference industry trends and technologies in video gaming;
- Apply the design process to research and develop professional video game concepts;
- Create diagrams and prototypes to specify game design concepts;
- Create a professional sales pitch for a game concept;
- Program game engine components such as resource management, entity-based systems, physics simulation, and user interfaces;
- Create a custom 2-D game engine;
- Develop skills to be a self-learner and problem solver;
- Work effectively on interdisciplinary teams producing functioning games and levels.

The Game Programming program may be pursued full-time or part-time. Admission requires a high school diploma or its equivalent and competency in English and mathematics as demonstrated by placement testing.

SEE ALSO:
Game Design degree program

DEGREE CURRICULUM
2021-2022 Academic Year
GAME.PROG.AAS
CIP 500411

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
COS 101	Introduction to Computer Science (3/2)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ENG 101	English Composition I (3/0)	3	
GAM 120	Game Design Theory and Culture (1/4)	3	
— —	Social Science or Humanities general education elective	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online

to support your studies and assignments.

SECOND SEMESTER

COS 102	Computer Science I – Algorithms and Programming (3/2)	4
ENG 102	English Composition II (3/0)	3
GAM 145	Game Programming I (2/2)	3
IST 108	Introduction to Programming with Mobile Application Development (3/2)	4
MAT 146	Pre-Calculus (4/0)	
	OR	4
MAT 151	Calculus I for the Mathematical and Physical Sciences (4/0)	

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

COS 210	Computer Science II – Data Structures (3/2)	4
GAM 140	Game Design I (1/4)	
	OR	3
GAM 240	Game Design II (1/4)	
GAM 245	Game Programming II (1/4)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans

IST 218	iOS Application Development (3/2)	4
— —	Technical elective	3

- Select from CMN 153; DMA 120, 135, 145, 225.

for after you've earned this degree.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

CMN 146	Social Media Technologies (2/2)	3
GAM 260	Game Development (1/4)	3
— —	Technical elective	3

- Select from CMN 153; DMA 120, 135, 145, 225.

— —	General Education elective	3

- Select course from the following general education categories: Social Science, Humanities, Historical Perspective.

✓ Get ready to start your career! Begin the job application process.

✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

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NOTE: Students must earn a minimum grade of C in all COS, DMA, GAM, and IST courses.

2021-2022 Academic Year

Health Information Technology
in cooperation with Camden County College
Associate in Applied Science Degree (A.A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The A.A.S. degree in **Health Information Technology**, offered jointly with Camden County College, is designed for the student seeking a professional career based in the healthcare arena. Health information technology deals with the gathering, storage, and abstraction of health data that can be transformed into meaningful and useful information utilized by various professionals for a variety of purposes.

Students educated in the field 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. Positions include EHR (electronic health records) specialist, clinical data specialist, medical record coder, APC (ambulatory payment classification) coordinator, privacy officer, compliance specialist, and data quality manager.

The health information technology profession offers opportunities with a wide scope of responsibility, flexible hours, and considerable potential for growth. The American Health Information Management Association (AHIMA; www.ahima.org), a national professional organization with approximately 50,000 members, maintains current information regarding growth of the field, salaries, and employers.

Graduates of this program will receive a joint degree from both Camden County College and Mercer County Community College. MCCC provides courses for the first year of study; Camden offers the remaining courses (all available online) to complete program requirements.

The Health Information Technology program at Camden County College is accredited by the American Health Information Management Association (AHIMA) and the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM), 233 N. Michigan Ave., Suite 2150, Chicago, IL 60601; 312-233-1100; www.cahiim.org

PROGRAM OUTCOMES

- Meet the entry-level competencies and become gainfully employed in the health information technology field;
- Seek Registered Health Information Technologist (RHIT) certification through AHIMA;
- Transfer to a baccalaureate degree program at surrounding universities including Temple, Gwynedd Mercy, and Rutgers.

After completing a four-year degree, students may continue their education to the master's degree level either in health information management or a related field.

DEGREE CURRICULUM
2021-2022 Academic Year
HLTH.INFO.TECH.AAS
CIP 510706

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (Foundations courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Mercer County Community College Courses		
Code	**Course (lecture/lab hours)**	**Credits**
FIRST SEMESTER		
BIO 103	Anatomy and Physiology I (3/3)	4
ENG 101	English Composition I (3/0)	3
HPE 113	Medical Terminology (3/0)	3
IST 101	Computer Concepts with Applications (2/2)	3

SECOND SEMESTER

Code	Course	Credits
BIO 104	Anatomy and Physiology II (3/3)	4
BUS 230	Global Environment of Business (3/0)	3
ENG 102	English Composition II (3/0)	3
MAT 200	Statistics for Social and Health Sciences I (3/0)	3
MOA 101	Medical Ethics and Office Procedures (3/0)	3
	Credits Subtotal:	29

Camden County College Courses

Code	Course	Credits

SUMMER SESSION

HIT 101	Introduction to Health Information	3
HIT 132	Basic Pharmacology	3

THIRD SEMESTER (Fall)

HIT 110	Health Informatics	4
HIT 115	Healthcare Reimbursement	3
HIT 130	Introduction to Ambulatory Coding	3
HIT 134	Basic Pathophysiology	3
HIT 140	Diagnostic and Procedural Coding I	3
HIT 150	Technical Practice Experience	1

FOURTH SEMESTER (Spring)		
HIT 202	Statistical Methods for Health Information	3
HIT 215	Advanced Ambulatory Coding	3
HIT 235	Organizational Resources, QI/PI	4
HIT 240	Diagnostic and Procedural Coding II	4
HIT 220	Professional Practice Experience	2
	Credits Subtotal:	39

NOTE: Courses for the first two semesters are taken at Mercer County Community College. Those for the last two – as well as two Summer courses between the first and second years of the program – are taken through Camden County College, all available online.

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Health Science

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

Health Professions Division
609.570.3383 admiss@mccc.edu

The **Health Science** meta major provides a common pathway within the first two semesters for students interested in pursuing a degree or working in an allied health career area. The core curriculum consists of general education, mathematics, and science courses.

For subsequent semesters, students select from among three pathway options leading to an Associate in Applied Science or Associate in Science degree. Total credits required for each option vary, consistent with the area of study and/or associated accrediting agency.

PROGRAM OUTCOMES

- Develop the knowledge, skills, and professional requirements of an allied health professional;
- Demonstrate the ability to apply the scientific method to gather and use information;
- Integrate critical thinking and problem solving appropriate for student's allied health discipline;
- Exhibit proficiency in the scientific area of student's licensure/certification.

DEGREE CURRICULUM

2021-2022 Academic Year
HLTH.SCI.AAS
CIP 511004

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits
FIRST SEMESTER		
BIO 103	Anatomy and Physiology I (3/3)	4
CSH 100	College Success for Health Professions (1/1)	2
	• Some exemptions apply. Consult academic advisor for details.	
ENG 101	English Composition I (3/0)	3
MAT 125	Elementary Statistics I (3/0)	3
PSY 101	Introduction to Psychology (3/0)	3
SECOND SEMESTER		
BIO 104	Anatomy and Physiology II (3/3)	4
ENG 102	English Composition II (3/0)	3
— —	General Education elective	3
	• Refer to requirements specified in chosen pathway option (below).	
— —	General Education elective	3
	• Refer to requirements specified in chosen pathway option (below).	
		28

NOTE: Students must earn a minimum grade of C in all science and math core courses. Students interested in the Rider University guaranteed transfer for the Allied Health Studies B.S. degree must see the Health Science program coordinator.

HEALTH SCIENCE A.A.S. DEGREE

An opportunity for eligible health care professionals to earn the Associate in Applied Science degree and prepare for transfer to a four-year institution offering a baccalaureate program in the health sciences. This program is designed for individuals already possessing allied health credentials, or current students seeking a program change. Professional core credits are awarded for previously held licenses or certification according to the didactic and clinical hours of study.

COURSES	CREDITS
Core Curriculum[1]	28
Science elective[2]	4
Technical and Professional electives[3]	*minimum of* 11
Professional Core credits[4] and/or Technical and Professional electives[3]	1-17
Total Degree Credits:	60

[1] SECOND SEMESTER: Select courses from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

[2] Select from Microbiology (BIO 201), Genetics (BIO 208), Organic Chemistry I (CHE 201).

[3] Select from BIO 101, 102, 201, 208, 217; BUS 105, 209; CHE 101, 102, 107, 201; CIS 173, 175; CMN 111, 112; HPE 101, 105, 113, 151, 241; MAT 125, 126, 140, 146, 200; MLT 112; MOA 101, 103; NUR 151; PBH 101; PHI 205; PHY 101, 102, 109, 111; PTA 105; SPA 101, 102, 121, 122.

[4] Consult Health Science program coordinator for details

HEALTH PROFESSIONS PROGRAMS

For complete details on each option, refer to pages dedicated to each program:

- Exercise Science
- Medical Laboratory Technology*
- Nursing*
- Occupational Therapy Assistant*
  (with Rutgers University)
- Physical Therapist Assistant*
- Public Health
- Radiography*
- Respiratory Care*
  (with Brookdale Community College)

*Admission to licensure-based programs is limited to a specific number of candidates due to accrediting and clinical agency requirements. Students must petition for entry, completing application requirements by the end of the first semester of meta major Core Curriculum. Once accepted, students follow the degree requirements for their chosen program.

COURSES	CREDITS
Core Curriculum[1]	28
Total Degree Credits:	*vary, depending on chosen program*

[1] SECOND SEMESTER: Select general education courses in accordance with requirements stipulated in the chosen Health Professions program. Consult coordinator of that specific program for details.

The two-semester (or less) Medical Office Assistant Certificate of Proficiency can also be started following the meta major's *first semester*.

RADIOGRAPHY CONCENTRATION
AT ST. FRANCIS MEDICAL CENTER

This Health Science degree with a JRCERT (Joint Review Committee on Education in Radiologic Technology) accredited Hospital Based Radiography Diploma Program concentration allows graduates to meet eligibility requirements for the American Registry of Radiologic Technologists (ARRT) certification examination and prepares students for transfer into a four-year program. Students must apply for acceptance from the SFMC (Trenton) School of Radiologic Technology.

COURSES	CREDITS
Core Curriculum[1]	28
Science elective[2]	3-4
SFMC Technical and Professional courses[3]	12
Diploma from SFMC	18
Total Degree Credits:	61-62

[1] SECOND SEMESTER: Select from PHI 204 or 205 along with one course from Diversity and Global Perspective general education category.

[2] Select from BIO 115, 201; PHY 109 (preferred).

[3] St. Francis Medical Center School of Radiologic Technology approved courses:

RAD CT - Computerized Tomography and Cross Sectional Anatomy
RAD PRO201 - Radiographic Procedures 201
RAD MT - Medical Terminology
RAD PC I - Patient Care I
RAD PC II - Patient Care II

Heating, Refrigeration and Air Conditioning
Associate in Applied Science Degree (A.A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Heating, Refrigeration and Air Conditioning** program prepares a student for such positions as service representative, service supervisor, estimator, system designer, and laboratory technician. Graduates assume supervisory, management and technical responsibility.

The HRA courses are part of a joint program between Mercer County Community College and the Mercer County Technical Schools.

PROGRAM OUTCOMES

- Perform all service functions of a graduate of the certificate program;
- Communicate effectively by oral, written, or graphic means;
- Produce basic mechanical drawings and sketches needed to communicate concepts and designs;
- Understand the laws of physics as they apply to the subject field;
- Perform computations necessary to solve basic load sizing problems;
- Apply the fundamental laws of thermodynamics and the basic principles of heat flow as they apply to HRAC;
- Determine proper air distribution in HRAC systems.

The program may be pursued part-time or full-time, but most required courses are available only in the evening.

Admission to the program requires a high school diploma or its equivalent with one year of algebra or applied mathematics.

SEE ALSO:
Heating, Refrigeration and Air Conditioning certificate program

DEGREE CURRICULUM

2021-2022 Academic Year
HRAC.AAS
CIP 150501

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CSW 100	College Success and Personal Wellness (2/0)	2	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
	• Some exemptions apply. Consult academic advisor for details.		
EET 130	Fundamentals of Electronics (2/2)	3	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
HRA 101	Principles of Refrigeration / Air Conditioning I (1/2)	2	
HRA 102	Principles of Refrigeration / Air Conditioning II (1/2)	2	
MAT 115	Algebra and Trigonometry I (3/0)	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
SECOND SEMESTER			
ECO 103	Basic Economics (3/0)	3	

ENG 102	English Composition II (3/0)	3	
HRA 103	Refrigeration / Air Conditioning Electrical Controls (2/4)	4	
IST 101	Computer Concepts with Applications (2/2)	3	
— —	General Education elective	3	

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

EET 140	Electronic Construction (1/3)	2	
HRA 104	Domestic Heating and Air Conditioning Systems (2/4)	4	
PHY 111	Physical Science Concepts (2/2)	3	
— —	General Education elective	3	

- Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

— —	Elective	3	✓ Develop team and leadership skills by getting involved in activities and clubs. ✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships. ✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER			
HRA 202	Light Commercial Systems I (1/2)	2	✓ Get ready to start your career! Begin the job application process. ✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.
HRA 203	Light Commercial Systems II (1/2)	2	
HRA 205	Heavy Commercial Systems (1/4)	4	
— —	Elective	3	
— —	Elective	3	
		60	

NOTE: Electives should be selected in consultation with an academic advisor.

Heating, Refrigeration and Air Conditioning
Certificate of Proficiency

Heating, Refrigeration and Air Conditioning is a joint program between Mercer County Community College and the Mercer County Technical Schools. It is designed to prepare students for employment in commercial establishments and industry, in such positions as refrigeration mechanic, commercial air conditioning mechanic, furnace installer and repairer, oil burner installation and service technician, gas heating system servicer, and mobile air conditioning system mechanic.

Admission to the certificate program requires a high school diploma or its equivalent with one year of algebra or applied mathematics. Students must demonstrate mathematics proficiency at the MAT 037 level to qualify for the certificate.

The program is part-time only and most courses are offered only during the evening.

PROGRAM OUTCOMES

- Explain the basic theories and fundamental principles of heat transfer;
- Service, troubleshoot, and repair domestic and commercial refrigeration and air conditioning systems and components;
- Use electrical and mechanical test equipment and metering devices;
- Utilize a working knowledge of control circuitry, instrumentation and ladder diagram/schematic interpretation;
- Determine heating and air conditioning size requirements for a building of specific volume, orientation on lot, and geographic location.

SEE ALSO:

Heating, Refrigeration and Air Conditioning degree program

CERTIFICATE CURRICULUM

2021-2022 Academic Year
HRAC.CERT
CIP 150501

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
EET 130	Fundamentals of Electronics (2/2)	3
HRA 101	Principles of Refrigeration / Air Conditioning I (1/2)	2
HRA 102	Principles of Refrigeration / Air Conditioning II (1/2)	2
MAT 115	Algebra and Trigonometry I (3/0)	3
HRA 103	Refrigeration / Air Conditioning Electrical Controls (2/4)	4
HRA 104	Domestic Heating and Air Conditioning Systems (2/4)	4
EET 140	Electronic Construction (1/3)	2
ENG 101	English Composition I (3/0)	3
HRA 202	Light Commercial Systems I (1/2)	2
HRA 203	Light Commercial Systems II (1/2)	2
HRA 205	Heavy Commercial Systems (1/4)	4
		31

NOTE: Students must earn a minimum grade of C in all HRA courses.

Hotel, Restaurant and Institution Management

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

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Hotel, Restaurant and Institution Management** program prepares students for employment in various entry-level management careers in the lodging and food service industries. Areas of employment include assistant manager in hotel/motel operations; club, restaurant or banquet manager of commercial eating establishments; and assistant food service management positions in hospitals, schools and other institutions.

PROGRAM OUTCOMES

- Demonstrate principles of effective human resource management in the supervision of employees;
- Plan and develop appropriate menus which meet the criteria of hotels, restaurants and/or institutions;
- Apply cost control techniques in various operations;
- Demonstrate ability to communicate effectively through oral, written or graphic means;
- Demonstrate knowledge of various laws and regulations affecting food service operations;
- Plan and direct food production and service in a variety of settings;
- Supervise employees in the front desk operation of a hotel;
- Analyze computer data for hotel registration, accounts receivable, billing, etc.

The program includes an internship in a hotel, restaurant or institutional food service facility. Placement assistance is offered by program faculty and available through cooperative agreements with hotels, food service facilities, and restaurants in the Mercer County area.

Students may study full-time or part-time. Most courses are offered both day and evenings.

Most of the credits earned in acquiring the A.A.S. degree in Hotel, Restaurant and Institution Management can be applied to the B.S. degree offered through articulation agreements with Fairleigh Dickinson University and Johnson & Wales University.

Admission to the program requires a high school diploma or its equivalent.

DEGREE CURRICULUM

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ENG 101	English Composition I (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
HOS 100	Hospitality Success Skills (1/0)	1	
HOS 101	Food Preparation I (1/4)	3	
HOS 111	Culinary Math (1/0)	1	
HOS 118	Sanitation and Safety in Food Service Operations (2/0)	2	✓ Use your online tools: Check your MercerMaildaily, utilize features of Office 365, and get to know Student Planning.
HOS 120	Introduction to the Hospitality Industry (3/0)	3	
MAT 120	Mathematics for Liberal Arts (3/0)	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
SECOND SEMESTER			
ENG 102	English Compostion II (3/0)	3	

HOS 102	Food Preparation II (1/4)	3	
HOS 104	Hotel Management and Lodging Operations (3/0)	3	
HOS 204	Hospitality Marketing (3/0)	3	
— —	General Education elective	3	

- IST 101 recommended.

THIRD SEMESTER

ACC 111	Principles of Financial Accounting (4/0)	4
HOS 203	Hospitality Purchasing (3/0)	3
HOS 208	Hospitality Law (3/0)	3
HOS 267	Event Planning (3/0)	3
HOS 287	Hotel/Restaurant Management Internship	1

- Typically taken during the Summer session between the program's first and second years. Alternatively, may be taken in the third or fourth semester.

involved in activities and clubs.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

BUS 240	Human Resource Management (3/0)	3	✓ Get ready to start your career! Begin the job application process.
CMN 111	Speech: Human Communication (3/0)		
	OR	3	✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.
CMN 112	Public Speaking (3/0)		
HOS 115	Food and Culture (2/2)	3	
— —	Humanities general education elective	3	
— —	General Education elective	3	
		60	

NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

Illustration

Associate in Applied Science Degree in Visual Arts (A.A.S.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Illustration** program prepares students for entry-level positions as illustrators or graphic designers in advertising agencies, design firms, publishing houses, production studios, or corporate environments. It also parallels the first two years of study in illustration at many undergraduate universities and art colleges.

As visual communicators, illustrators must learn the same basic design principles as graphic designers and fine artists. The design sequence of courses emphasizes the development of fine art skills as well as creative thinking for visual solutions. Skills and techniques in both traditional and computer-generated forms are introduced and emphasized. Most coursework takes place in a studio using current professional-quality equipment, artistic techniques, and technology.

An advisory commission composed of active design professionals works with the faculty to ensure that the program stays current with the changing technological advances in the illustration field.

PROGRAM OUTCOMES

- Apply computer applications to design principles;
- Illustrate and practice professional design principles;
- Recognize elements of proper design in professional-quality work;
- Design professional-quality concepts, both traditional and digital;
- Demonstrate competence in the design and production of illustrations;
- Develop and present ideas in both written and oral formats;
- Create a professional portfolio to serve in the pursuit of further education or employment.

The program may be pursued full-time or part-time. Some courses may only be offered during the day. Students are advised not to take visual art courses out of sequence.

SEE ALSO:
Advertising + Graphic Design degree program

DEGREE CURRICULUM

2021-2022 Academic Year
ILLUST.AAS
CIP 500402

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ART 102	Basic Drawing (1/4)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ART 105	Two-Dimensional Design (1/4)	3	
DMA 115	Vector Drawing (1/4)	3	
DMA 144	Internet Tools and Techniques (1/4)	3	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning. ✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

ADV 101	Advertising Design I (1/4)	3
ART 104	Life Drawing (1/4)	3
ART 122	History of Art II (3/0)	3
ENG 102	English Composition II (3/0)	3
MAT —	Mathematics elective	3

- MAT 120 or 125 recommended. Select in consultation with an academic advisor.

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

ADV 110	Typography I: Basics of Graphic Design (1/4)	3
ADV 220	Illustration I (1/4)	3
ART 130	Painting I (1/4)	3
DMA 110	Digital Imaging (1/4)	
	OR	3
ART 150	Printmaking I (1/4)	

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

DMA 250	Digital Portfolio Seminar (1/4)	3

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

ADV 201	Advertising Design II (1/4)	3
ADV 222	Illustration II: Digital Drawing (1/4)	3
ART 106	Three-Dimensional Design (1/4)	3
CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
ART —	Art History elective	3

✓ Get ready to start your career! Begin the job application process.

✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

- Select from ART 121, 124, 125, PHO 110.

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NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

NOTE: Students must earn a minimum grade of C in ART 105; ADV 101, 201, 220, 222 to graduate.

IT System Analyst Associate

Certificate of Achievement

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

This micro-credential program offers students the essentials to become an **IT System Analyst Associate**. Skills taught enable work with complex, dynamic technology to fulfill changing requirements and deliver projects on time and within budget.

PROGRAM OUTCOMES

- Explain basic concepts of project management;
- Apply PC applications (Microsoft Project Management software);
- Discuss and use system analysis tools.

Successful completion of credits from this Certificate of Achievement can be applied toward the Computer Information Systems degree program.

Admission to the program requires readiness for college-level English and Math and approval from the program coordinator. Students may receive credit for previous training in a skills area by applying for credit by examination, credit by experience, and/or transfer credit as evaluated and approved by the program coordinator.

SEE ALSO:
Computer Information Systems degree program
Computer Networking and Technology degree program
Computer Science degree program
Computer Science certificate program
Computer Support Specialist certificate program
Cybersecurity degree program
Database Administration certificate program
Database Concepts and Skills Associate certificate program
Mobile and Web Computing certificate program
Oracle SQL Programming and Database Design Specialist certificate program
Web Development certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

IT.SYS.ANLAASOC.CRT
CIP 521201

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
FIRST SEMESTER		
IST 109	Introduction to Programming (2/2)	3
IST 209	Project Management Concepts (2/2)	3
SECOND SEMESTER		
CIS 280	PC Applications: Project Management (2/2)	3
IST 253	Database Concepts (2/2)	3
IST 256	Systems Analysis (2/2)	3
		15

Liberal Arts

Associate in Arts Degree in Liberal Arts and Sciences (A.A.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Liberal Arts** program offers a variety of courses that prepare students to transfer into the junior year at four-year colleges and universities in such fields as English, history, humanities, journalism, world languages, pre-law, literature, psychology, sociology, political science, anthropology, philosophy, and education. Liberal Arts can be a valuable, flexible path allowing students to explore many subject areas before choosing a more specific discipline upon transfer.

The Liberal Arts program is fundamentally cross-disciplinary; this broad perspective provides students with a strong foundation in humanities, social science, natural science, and mathematics. Using a variety of cross-disciplinary approaches, students work together to explore what we share and how we differ, developing the skills needed for engaged, responsible, global citizenship.

An associate degree in Liberal Arts is most effective as a step toward transfer and further academic work. Students enrolled in the Liberal Arts program who intend to transfer to four-year colleges or universities are strongly advised to discuss their general education electives with a faculty advisor.

Almost all baccalaureate institutions prefer coursework for a student's major field to be completed at that institution. Therefore, it is better for students to fulfill the general education requirements that make up the core of Liberal Arts at Mercer, working with faculty advisors to select courses with an eye toward full transferability. All students should determine the requirements of the transfer institutions they would like to attend and consult with Transfer Services about available articulation agreements and transfer options.

Liberal Arts majors have transferred to Rider University, The College of New Jersey, Rutgers University, Temple University, and many other institutions.

The program may be pursued part-time or full-time and may be completed by daytime or evening attendance, or fully online.

PROGRAM OUTCOMES

- Understand the vocabulary, methods, and the major concepts present in the humanities, the social sciences, and the natural sciences;
- Articulate complex ideas clearly and effectively, both verbally and in writing;
- Perform a series of thinking tasks including speculation, analysis, and synthesis (i.e., abstract reasoning);
- Utilize research materials and methodologies;
- Speak, write, read, and comprehend a world language commensurate with the level of study.

SEE ALSO:

Liberal Arts: Global Studies degree program

DEGREE CURRICULUM
2021-2022 Academic Year
LA.AA
CIP 240101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CSW 100	College Success and Personal Wellness (2/0) • Some exemptions apply. Consult academic advisor for details.	2	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how
ENG 101	English Composition I (3/0)	3	

LAS 101	Introduction to Liberal Arts Studies (1/0) Take either LAS 101 or 201 – not both. Students who need an additional credit for full-time status while taking CSW 100 should take LAS 101 the same semester. Students who need an additional credit in order to graduate should take LAS 201 in their last year; students who will achieve 60 credits without LAS are exempt from the LAS requirement.	1 or 0
MAT 125	Elementary Statistics I (3/0)	3
HIS —	Historical Perspective general education elective	3
	• Select from HIS 101, 102, 112, 113.	
— —	Social Science general education elective	3
	• Recommended: PSY 101, SOC 101 or 107.	

SECOND SEMESTER

CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
ENG 102	English Composition II (3/0)	3
HIS —	Historical Perspective general education elective	3
MAT —	Mathematics elective MAT 126 recommended. Acceptable alternatives include MAT 120 based on transfer needs. Consult academic advisor and intended transfer institution(s) regarding their mathematics requirements.	3
— —	Social Science general education elective	3
	• Recommended: PSY 101, SOC 101 or 107.	

offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

ENG	—	Literature elective	3

- Select any 200-level ENG literature course (not limited to general education listings).

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

—	—	Lab Science elective	3

- Recommended: 3-credit science for Liberal Arts – BIO 113, CHE 106, OHT 101, PHY 111.

✓ Complete your applications to desired transfer institutions.

—	—	Social Science elective	3

- Select any 200-level Social Science course (not limited to general education listings). No more than six credits may be taken in any one Social Science discipline.

✓ Develop team and leadership skills by getting involved in activities and clubs.

—	—	World Language elective	3

- Take one language in a progressive sequence; start at 101 only if this is a new language for you. Consult academic advisor regarding the transferability of language courses. If language courses are CLEPed, you must meet with a Liberal Arts faculty advisor and the World Languages coordinator.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

—	—	Diversity and Global Perspective general education elective	3

FOURTH SEMESTER

LAS 201	Liberal Arts Special Topics (1/0)	0 or 1

Take either LAS 101 or 201 – not both. Students who need an additional credit for full-time status while taking CSW 100 should take LAS 101 the same semester. Students who need an additional credit in order to graduate should take LAS 201 in their last year; students who will achieve 60 credits without LAS are exempt from the LAS requirement.

PHI —	Philosophy elective	3

- Select any 200-level Philosophy course.

— —	Science OR Technology elective	3

- Consult academic advisor or transfer counselor regarding transferability. May be a second laboratory science or another general education Natural Science or Technology elective.

— —	Social Science or Humanities elective	3

- Any Social Science, ENG, HIS, PHI, or REL course qualifies.

— —	World Language elective	3

- Take one language in a progressive sequence; start at 101 only if this is a new language for you. Consult academic advisor regarding the transferability of language courses. If language courses are CLEPed, you must meet with a Liberal Arts faculty advisor and the World Languages coordinator.

— —	Program elective	3

- Any 101-level or higher course required in an A.A., A.F.A., or A.S. degree program. List available from Liberal Arts program coordinator.

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

Liberal Arts

Global Studies concentration
Associate in Arts Degree in Liberal Arts and Sciences (A.A.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Liberal Arts concentration in Global Studies** provides students interested in a career in such fields as international relations, global business, law, diplomacy, and other public service with a beginning understanding of the issues affecting international decision-making today. The objectives and overall requirements of the Global Studies concentration are the same as those for a general Liberal Arts degree; however, within each requirement, the choice of electives affords students an opportunity to approach disciplinary work from a global perspective.

Due to an articulation agreement between Mercer and Rider University, eligible students graduating from Mercer's Global Studies concentration can transfer seamlessly into Rider's Global Studies baccalaureate program. Students must complete all specified coursework for the Liberal Arts Global Studies concentration and graduate from MCCC with a cumulative GPA of 2.5 or higher. For Mercer graduates meeting the above criteria, Rider's Global Studies program offers the added benefit of free tuition for one 3-credit course.

Prospective students are encouraged to compare the curriculum for the Global Studies concentration with that of the standard MCCC Liberal Arts program, as well as to read the Mercer/Rider guaranteed transfer articulation agreement posted on the MCCC Transfer Services website.

For students not transferring to Rider, the Global Studies concentration can lead to similar study elsewhere or transfer to four-year baccalaureate programs in which general Liberal Arts graduates would enroll.

PROGRAM OUTCOMES

- Understand the vocabulary, methods, and the major concepts present in the humanities, the social sciences, and the natural sciences;
- Articulate complex ideas clearly and effectively, both in speech and in writing;
- Perform a series of thinking tasks including speculation, analysis, and synthesis (i.e., abstract reasoning);
- Utilize research materials and methodologies;
- Speak, write, read, and comprehend a world language commensurate with the level of study.

DEGREE CURRICULUM

2021-2022 Academic Year
LA.GLOB.AA
CIP 240101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ANT 101	Anthropology (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CSW 100	College Success and Personal Wellness (2/0)	2	
	• Some exemptions apply. Consult academic advisor for details.		
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
HIS 112	World History to 1500 (3/0)	3	
LAS 101	Introduction to Liberal Arts Studies (1/0)	1 or 0	
	• Take either LAS 101 or 201 – not both. Students who need an additional credit for full-time status while taking CSW 100 should take LAS 101 the same semester. Students who need an additional credit in order to graduate should take LAS 201 in their last year; students who will achieve 60 credits without LAS are exempt from the LAS requirement.		✓ Take advantage of Learning Centers or Online

MAT 125	Elementary Statistics I (3/0)	3	Tutoring to support your studies and assignments.

SECOND SEMESTER

CMN 111	Speech: Human Communication (3/0)		✓ Transitioning to college can be challenging. Meet with your Success Coachfor guidance and support.
	OR	3	
CMN 112	Public Speaking (3/0)		
ENG 102	English Composition II (3/0)	3	✓ Apply for financial aidby May 1.
HIS 113	World History Since 1500 (3/0)	3	✓ Contact professors with questions and use their office hours to develop a connection.
MAT 126	Elementary Statistics II	3	
SOC 101	Introduction to Sociology (3/0)	3	

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Servicesand Career Servicesoffices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

ECO 103	Basic Economics (3/0)	3	✓ Keep in contact with each professor and your faculty advisor. Make sure
PHI 210	Eastern Philosophy (3/0)	3	

ENG —	Literature elective	3	

- Select from ENG 203, 204, 232.

— —	Lab Science general education elective	3

- Recommended: 3-credit science for Liberal Arts – BIO 113, CHE 106, OHT 101, PHY 111.

— —	World Language elective	3

- Take one language in a progressive sequence; start at 101 only if this is a new language for you. Consult Global Studies faculty advisor regarding the transferability of language courses. If language courses are CLEPed, you must meet with the Global Studies faculty advisor and the World Languages coordinator.

FOURTH SEMESTER

BUS 230	Global Environment of Business (3/0)	3
LAS 201	Liberal Arts Special Topics (1/0)	0 or 1

- Take either LAS 101 or 201 – not both. Students who need an additional credit for full-time status while taking CSW 100 should take LAS 101 the same semester. Students who need an additional credit in order to graduate should take LAS 201 in their last year; students who will achieve 60 credits without LAS are exempt from the LAS requirement.

POL 201	International Relations (3/0)	3
— —	Humanities or Social Science elective	3

- Select from ENG 203, 204, 232; HIS 213, 215, 231, 232; REL 102.

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you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

— — <u>Science OR Technology general education elective</u> 3

- Select from another lab science (see recommended courses at Third Semester); BIO 114, 115; DMA 144; IST 101, 102, 109, 140.

— — World Language elective 3

- Take one language in a progressive sequence; start at 101 only if this is a new language for you. Consult Global Studies faculty advisor regarding the transferability of language courses. If language courses are CLEPed, you must meet with the Global Studies faculty advisor and the World Languages coordinator.

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Mathematics

Associate in Science Degree in Liberal Arts and Sciences (A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Mathematics** option of the Liberal Arts and Sciences program prepares graduates for transfer into the junior year of a baccalaureate degree program in mathematics or a related area.

PROGRAM OUTCOMES

- Apply a range of mathematical skills spanning fundamental concepts to more advanced mathematical concepts;
- Apply quantitative knowledge, including the required technological skills and theoretical knowledge;
- Demonstrate critical thinking skills to solve real world problems using mathematical modeling;
- Communicate methods of solutions and results to problems using mathematical language and notation.

Admission to the program requires a high school diploma or its equivalent with one year of laboratory science (biology, chemistry, physics) and four years of mathematics including algebra I and II, plane geometry, and algebra with trigonometry; two years of a world language are recommended. Students who have not taken these courses or who have not completed them within the last five years may take appropriate preparatory courses at the college.

This program may be pursued part-time or full-time, and may be completed by daytime or evening attendance. It is recommended that students plan coursework and electives carefully and consult an academic advisor regularly.

Mathematics students have successfully transferred to colleges and universities throughout New Jersey and across the nation.

DEGREE CURRICULUM

2021-2022 Academic Year
MATH.AS
CIP 240101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
MAT 151	Calculus I for the Mathematical and Physical Sciences (4/0)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CSW 100	College Success and Personal Wellness (2/0) • Some exemptions apply. Consult academic advisor for details.	2	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
— —	Lab Science general education elective • PHY 115 and 215 recommended. BIO 101 and 102 or CHE 101 and 102 may be selected if they serve a transfer need.	4	
— —	General Education elective • For the program's three General Education electives, select either [A] two semesters of a world language and one course from the Social Science general education category; or [B] two courses from the Social Science general education category and one from the Humanities general education category (PHI 113 recommended).	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

MAT 152	Calculus II for the Mathematical and Physical Sciences (4/0)	4
ENG 102	English Composition II (3/0)	3
— —	Lab Science general education elective	4
	• PHY 115 and 215 recommended. BIO 101 and 102 or CHE 101 and 102 may be selected if they serve a transfer need.	
— —	Program elective	4 or 3
	• Based on student's transfer needs and interests, for Program electives select either [A] three 4-credit courses; or [B] four 3-credit courses.	

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

MAT 251	Calculus III (4/0)	4
CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

—	—	General Education elective	3	

- For the program's three General Education electives, select either [A] two semesters of a world language and one course from the Social Science general education category; or [B] two courses from the Social Science general education category and one from the Humanities general education category (PHI 113 recommended).

—	—	Program elective	4 or 3	

- Based on student's transfer needs and interests, for Program electives select either [A] three 4-credit courses; or [B] four 3-credit courses.

—	—	Program elective	0 or 3	

- Required only if Program elective option [B] applied in Semesters 2, 3, and 4.

FOURTH SEMESTER

MAT 252	Differential Equations (4/0)	4
MAT 208	Linear Algebra (4/0)	4
— —	General Education elective	3

- For the program's three General Education electives, select either [A] two semesters of a world language and one course from the Social Science general education category; or [B] two courses from the Social Science general education category and one from the Humanities general education category (PHI 113 recommended).

— —	Program elective	4 or 3

- Based on student's transfer needs and interests, for Program electives select either [A] three 4-credit courses; or [B] four 3-credit courses.

Side panel:

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

Medical Laboratory Technology

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

Health Professions Division
609.570.3383 admiss@mccc.edu

Medical laboratory technology is a field of professional study involving students in the exciting and challenging world of science and medicine. Laboratory professionals perform diagnostic laboratory tests on medical specimens which provide information used to diagnose health and disease.

Combining courses in general education and medical laboratory science with a clinical practice conducted at an approved area healthcare facility, the **Medical Laboratory Technology** program prepares students for careers as medical laboratory technicians. It is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 N. River Road, Suite 720, Rosemont IL 60018; 773-714-8880; www.naacls.org.

A graduate of the program is eligible for certification by successfully completing the examination given by the American Society for Clinical Pathologists. Graduates are eligible for immediate employment in hospital labs, physician offices, public health labs, as well as pharmaceutical and research companies.

PROGRAM OUTCOMES

- Integrate knowledge learned and experienced in the disciplines of general education, mathematics, science, and medical laboratory science;
- Achieve entry-level career competencies of a medical laboratory technician by testing biological samples using current technology to generate accurate, quality-assured laboratory results used for health and disease evaluation;
- Utilize critical-thinking skills to assess and problem- solve laboratory data for patient diagnoses;
- Maintain familiarity with the profession's code of ethics and consistently act within those standards during interactions with fellow classmates and working professionals in the clinical setting;
- Describe the importance of continuing education in lifelong learning and in obtaining and upholding professional credentialing;
- Demonstrate academic and technical competence in the professional courses of the curriculum through college and applied clinical education experiences;
- Take the national ASCP certification exam.

Admission to the Medical Laboratory Technology program requires a high school diploma or its equivalent, satisfactory performance on the MCCC college skills placement test, and completion of any required academic foundation courses.

Applicants are encouraged to consult their academic advisor. For further information, contact the MLT program coordinator or visit the program website.

B.S. (Bachelor of Science) Degree Completion
In addition to acquiring certification, successful graduates of the Medical Laboratory Technology A.A.S. program can apply to bachelor's degree completion programs through established articulation agreements arranged with MCCC and a variety of four-year colleges.

Students follow the standard MLT curriculum (at right), with course substitutions and additional coursework as follows:

* FIRST SEMESTER: select MAT 146 as the Mathematics elective
* SECOND SEMESTER: select CHE 101 instead of 107
* additional science courses: BIO 101, 102, 208; CHE 102
* additional general education courses: HIS 112, 113; MAT 200;
  world language levels I and II

DEGREE CURRICULUM
2021-2022 Academic Year
MED.LAB.B.AAS
CIP 511004

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits
	PRE-PROFESSIONAL PHASE	
FIRST SEMESTER		
BIO 103	Anatomy and Physiology I (3/3)	4
	• BIO 101 and 102 are acceptable alternatives for BIO 103 and 104. Consult academic advisor for details.	
CSH 100	College Success for Health Professions (1/1)	2
	• Some exemptions apply. Consult academic advisor for details.	
ENG 101	English Composition I (3/0)	3
PSY 101	Introduction to Psychology (3/0)	3
	• PSY 101 is the preferred Social Science elective. Consult academic advisor for details.	
MAT —	Mathematics elective	3-4
	• Select from MAT 125, 140, 146.	
SECOND SEMESTER		
BIO 104	Anatomy and Physiology II (3/3)	4
	• BIO 101 and 102 are acceptable alternatives for BIO 103 and 104. Consult academic advisor for details.	
BIO 201	Microbiology (3/3)	4
CHE 101	General Chemistry I (3/3)	

	OR	4
CHE 107	General and Physiological Chemistry (3/2)	
CMN 111	Speech: Human Communication (3/0)	
	OR	3

- CMN 111 or 112 is the preferred general education elective. Consult academic advisor for details.

CMN 112	Public Speaking (3/0)	
ENG 102	English Composition II (3/0)	3

PROFESSIONAL PHASE		
SUMMER, FALL, SPRING		
MLT 112	Introduction to Medical Laboratory Technology (2/3)	3
MLT 200	Clinical Chemistry (3/2)	4
MLT 207	Clinical Immunohematology (3/3)	4
MLT 212	Clinical Hematology (3/3)	4
MLT 214	Clinical Microbiology (5/3)	6
MLT 215	Clinical Practice (560 hours)	10
		64-65

NOTE: Students must earn a minimum grade of C in all BIO, CHE, MAT, and general education courses within two attempts. Students must earn a minimum grade of C+ in all MLT courses during the professional phase within two attempts.

Code	Course (lecture/lab hours)	Credits
PRE-PROFESSIONAL PHASE		
FIRST SEMESTER		
BIO 103	Anatomy and Physiology I (3/3)	4
	• BIO 101 and 102 are acceptable alternatives for BIO 103 and 104. Consult academic advisor for details.	
CSW 100	College Success and Personal Wellness (2/0)	2
	• Some exemptions apply. Consult academic advisor for details.	
ENG 101	English Composition I (3/0)	3
PSY 101	Introduction to Psychology (3/0)	3
	• PSY 101 is the preferred Social Science elective. Consult academic advisor for details.	
MAT —	Mathematics elective	3-4
	• Select from MAT 125, 140, 146.	
SECOND SEMESTER		
BIO 104	Anatomy and Physiology II (3/3)	4
	• BIO 101 and 102 are acceptable alternatives for BIO 103 and 104. Consult academic advisor for details.	
BIO 201	Microbiology (3/3)	4
CHE 101	General Chemistry I (3/3)	

	OR	4
[CHE 107](#)	General and Physiological Chemistry (3/2)	
[CMN 111](#)	Speech: Human Communication (3/0)	
	OR	3

- CMN 111 or 112 is the preferred general education elective. Consult academic advisor for details.

[CMN 112](#)	Public Speaking (3/0)	
[ENG 102](#)	English Composition II (3/0)	3

PROFESSIONAL PHASE		
SUMMER, FALL, SPRING		
[MLT 112](#)	Introduction to Medical Laboratory Technology (2/3)	3
[MLT 200](#)	Clinical Chemistry (3/2)	4
[MLT 207](#)	Clinical Immunohematology (3/3)	4
[MLT 212](#)	Clinical Hematology (3/3)	4
[MLT 214](#)	Clinical Microbiology (5/3)	6
[MLT 215](#)	Clinical Practice (560 hours)	10
		64-65

NOTE: Students must earn a minimum grade of C in all BIO, CHE, MAT, and general education courses within two attempts. Students must earn a minimum grade of C+ in all MLT courses during the professional phase within two attempts.

Medical Office Assistant

Certificate of Proficiency

Health Professions Division
609.570.3383 admiss@mccc.edu

The Certificate of Proficiency in **Medical Office Assistant** prepares students to enter or transition into health professions careers including but not limited to medical assistant (depends on the setting), medical biller, medical coder, and medical office assistant. Graduates are prepared for employment in medical settings of all sizes to help others and support the distribution of health information, and to pursue further education.

This two-semester (or less) credit program is ideal for those seeking to immediately enter the healthcare field. Students who complete this certificate can consider taking the Certified Medical Administrative Assistant (CMAA) and Certified Professional Coder (CPC) exams.

PROGRAM OUTCOMES

Successful graduates of this program will be able to understand and apply concepts learned in:

- Anatomy and physiology
- Oral and written communication
- Microsoft applications
- Medical terminology
- Medical ethics
- Medical office procedures
- Medical billing and coding

Every effort is made to keep current with the constant changes in government and insurance regulations in order to ensure that program content reflects up-to-date requirements and procedures.

Paid internships may be available exclusively for Medical Office Assistant majors. Depending on the healthcare employer, future tuition toward degrees may be partially reimbursed. Medical Office Assistant students who meet One-Stop Career Center qualifications may receive up to $4000 in financial support toward completing this certificate.

Admission to the program requires a high school diploma or its equivalent. MCCC may accept and award some credits earned from other accredited schools and the MCCC Center for Continuing Studies toward this credit certificate. At least 15 credits must be completed at MCCC. Visit the program website for details.

CERTIFICATE CURRICULUM

2021-2022 Academic Year
MED.OA.CERT
CIP 510716

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
BIO 103	Anatomy and Physiology I (3/3)	4
CSH 100	College Success for Health Professions (1/1) Some exemptions apply. Consult program coordinator for details.	2
ENG 101	English Composition I (3/0)	3
MAT 125	Elementary Statistics I (3/0)	3
PSY 101	Introduction to Psychology (3/0)	3
CMN 111	Speech: Human Communication (3/0)	3
HPE 113	Medical Terminology (3/0)	3
IST 101	Computer Concepts with Applications (2/2)	3
MOA 101	Medical Ethics and Office Procedures (3/0) Offered every Fall and Spring on both campuses. Credits for MOA 101 and 103 can alternatively be earned through Center for Continuing Studies classes. Consult program coordinator for details.	3
MOA 103	Medical Billing and Coding Procedures (3/0) Offered every Fall and Spring on both campuses. Credits for MOA 101 and 103 can alternatively be earned through Center for Continuing Studies classes. Consult program coordinator for details.	3
		30

NOTE: Students must earn a minimum grade of C in HPE 113 and all MOA courses.

Microcomputer Applications

Certificate of Proficiency

Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Microcomputer Applications** certificate program prepares students for intelligent and efficient use of personal computer systems and commercial software for business applications in an office environment.

The program is primarily designed for upgrading the skills of persons employed in clerical, technical or managerial positions. It also provides skills which are helpful in securing entry-level employment in these fields.

PROGRAM OUTCOMES

- Demonstrate knowledge of PC operating systems, networking essentials, and applications software;
- Demonstrate mastery of one major business application product for word processing, database, spreadsheet, and presentation applications;
- Apply PC skills together with other technical/ business knowledge toward advancement or employment in a technology-intensive office environment.

Admission to the program requires a high school diploma or its equivalent.

NOTE: Because of the focus on PC applications in this program, students must possess keyboarding skills. See OST 111.

NOTE: Computer application courses are mapped to Microsoft certification exams.

SEE ALSO:

Administrative Support certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year
MICRO.APP.CERT
CIP 110601

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ENG 101	English Composition I (3/0)	3
IST 101	Computer Concepts with Applications (2/2) May be substituted with another Technology general education elective if student shows competency in Microsoft Office applications.	3
OST 219	Word Processing Concepts and Applications (2/2)	3
NET 102	Introduction to PC Hardware and Software (2/2) Students may sit for the A+ certification exam after completion of NET 102 and 103.	3
MAT —	Mathematics elective Select in consultation with an academic advisor; MAT 140 recommended. Students intending to transfer to a baccalaureate program should consider a higher-level mathematics course.	3-4
CIS 173	PC Applications: Database (2/2)	3
CIS 175	PC Applications: Spreadsheets (2/2)	3
CIS 182	PC Applications: Presentations (2/2)	3
NET 104	Fundamentals of Computer Networks (2/2)	3
NET 120	Windows Desktop Operating System Administration (2/2)	3
— —	Technical elective	3

- Select from DMA 145, IST 140, NET 103, OST 223.

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Mobile and Web Computing

Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Mobile and Web Computing** certificate program teaches the skills needed to enter the mobile and web computing fields and prepares students for entry-level positions such as computer programmer, mobile app developer, and web application developer.

PROGRAM OUTCOMES

- Analyze computer application requirements;
- Design, write, test, and debug mobile and web applications.

All courses in this program completed with a grade of C or better may be applied toward the Computer Networking and Technology A.A.S., Computer Information Systems A.S., or Computer Science A.S. degree programs.

Admission requires a high school diploma or its equivalent. Prior programming experience is helpful, but not necessary. Some required courses may be offered only during the evening, and some may be offered only in alternate semesters. It is essential that students plan ahead in consultation with the program coordinator.

SEE ALSO:
Computer Information Systems degree program
Computer Science degree program
Computer Science certificate program
Web Design certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

MOBILE.WEB.COMP.CERT
CIP 521201

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
COS 102	Computer Science I – Algorithms and Programming (3/2)	4
ENG 101	English Composition I (3/0)	3
IST 108	Introduction to Programming with Mobile Application Development (3/2)	4
IST 144	Website Development (3/2)	4
IST 208	Android Application Development (3/2)	4
IST 218	iOS Application Development (3/2)	4
IST 244	Web Application Development (3/2)	4
— —	Program elective	3-4

- In consultation with an academic advisor, select from the course categories of COS, DMA, GAM, IST, or NET.

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Music

Associate in Science Degree in Liberal Arts and Sciences (A.S.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Music** A.S. option of the Performing Arts program provides the prospective graduate with the theoretical and practical training necessary to transfer at the junior level in most baccalaureate music programs by way of a comprehensive curriculum that encompasses the same rigor and scope as that encountered in the first two years of a typical four-year program.

Core curriculum requirements include four semesters of Music Theory studies encompassing ear training and sight singing; two semesters of Music History; four semesters of piano training; four semesters of one-on-one study of a primary instrument (or voice) with a highly trained and well credentialed private instructor; four semesters of participation in one or more of the program's performing ensembles.

Additional course offerings in jazz history, jazz improvisation, music business, and digital recording technology further prepare many music majors for a wider variety of transfer options and eventual career choices.

PROGRAM OUTCOMES

- Demonstrate a professional level of fluency in both the reading and writing of musical notation;
- Demonstrate a working knowledge of the theoretical principles that underlie all the primary genres of music of Western culture, including scale and chord construction; the tonal system of keys and chord relationships; harmonic analysis; figured bass; the principles and procedures of four-part writing; and modulation;
- Analyze excerpts of musical compositions, working from a printed score, on the levels of harmony, rhythm, melodic contour, phrase structure, and large scale formal structure;
- Notate short melodic fragments of two to four measures in length upon hearing them performed;
- Sing at sight melodies of intermediate difficulty in both major and minor keys;
- Identify and distinguish the major periods in the history of Western music from the Middle Ages into the 21st century and cite the primary composers whose works exemplify the stylistic trends of each period;
- Demonstrate a level of proficiency at the piano keyboard suitable for teaching, arranging, composing, and analyzing music;
- Cultivate and demonstrate a level of proficiency on a chosen primary instrument (or voice) suitable for transfer to a baccalaureate music program;
- Apply his/her instrumental or vocal skill in the context of ensemble performance.

Admission to the Music program requires a high school diploma (or equivalent), at least a rudimentary proficiency on a musical instrument, and some degree of aural acuity. Graduates of the program typically transfer successfully to such highly regarded institutions as Rutgers University, New York University, The College of New Jersey, Rowan University, Montclair State University, and William Paterson University.

The Music A.S. degree may be pursued on a full-time or part-time basis, with most course offerings available during daytime hours only.

DEGREE CURRICULUM
2021-2022 Academic Year
MUSIC.AS
CIP 500101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ENG 101	English Composition I (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
MAT 120	Mathematics for Liberal Arts (3/0)		
	OR	3	
MAT 125	Elementary Statistics I (3/0)		
MUS 103	Introduction to Music (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
MUS 105	Fundamentals of Music Theory (2/2)	3	
MUS 121	Piano Class I (0/2)	1	
MUS 109	Applied Music I (.5/1)	1	

MUS —	Performing Ensemble I (1/2) Chamber Ensemble (one semester minimum), Chorus, Jazz Band, or Orchestra	1	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

CMN 111	Speech: Human Communication (3/0)		✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.
	OR		
CMN 112	Public Speaking (3/0)	3	✓ Apply for financial aid by May 1.
	OR		
— —	General Education elective Select from ASL 101, EDU 109, FRE 101, GER 101, ITA 101, LAT 101, MUS 155, MUS 156, PSY 101, PSY 206, SOC 101, SPA 101.		✓ Contact professors with questions and use their office hours to develop a connection.
ENG 102	English Composition II (3/0)	3	✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.
MUS 127	Music Theory I (2/2)	3	
MUS 167	Musicianship I (0/2)	1	
MUS 122	Piano Class II (0/2)	1	✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.
MUS 110	Applied Music II (.5/1)	1	
MUS —	Performing Ensemble II (1/2) Chamber Ensemble (one semester minimum), Chorus, Jazz Band, or Orchestra	1	
— —	Lab Science general education elective Select from BIO 113, CHE 106, PHY 111.	3	✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

MUS 128	Music Theory II (2/2)	3	✓ Keep in contact with each professor and your faculty advisor. Make sure
MUS 168	Musicianship II (0/2)	1	

MUS 224	Music History and Literature I (3/0)	3
MUS 221	Piano Class III (0/2)	1
MUS 209	Applied Music III (.5/1)	1
MUS —	Performing Ensemble III (1/2) Chamber Ensemble (one semester minimum), Chorus, Jazz Band, or Orchestra	1
— —	Social Science general education elective	3
— —	Elective	3

- Select from MUS 101, 102, 109, 111, 112, 117, 118, 119, 120, 123, 151, 155, 156, 201, 202, 211, 212, 217, 218, 219, 220, 285, 286.
- Or select from ASL 101, CMN 153, EDU 109, FRE 101, GER 101, ITA 101, LAT 101, PSY 101, PSY 206, SOC 101, SPA 101.

you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

MUS 227	Music Theory III (2/2)	3
MUS 267	Musicianship III (0/2)	1
MUS 225	Music History and Literature II (3/0)	3
MUS 222	Piano Class IV (0/2)	1
MUS 210	Applied Music IV (.5/1)	1
MUS —	Performing Ensemble IV (1/2) Chamber Ensemble (one semester minimum), Chorus, Jazz Band, or Orchestra	1
— —	Technology general education elective Select from DMA 144; IST 101, 102, 109, 140.	3

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

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NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

NOTE: Students must earn a minimum grade of C in all MUS courses to graduate.

Nursing

Associate in Science Degree (A.S.)

Health Professions Division
609.570.3383 admiss@mccc.edu

The Associate Degree **Nursing** (ADN) program combines coursework in nursing and general education with clinical experiences in area healthcare facilities under the supervision of college faculty.

The Nursing program is accredited by the New Jersey Board of Nursing / 124 Halsey Street, 6th Floor, Newark, NJ 07102 / 973-504-6430; and by the Accreditation Commission for Education in Nursing (ACEN) / 3343 Peachtree Rd. NE, Suite 850, Atlanta, GA 30326 / 404-975-5000.

The ADN program faculty is committed to providing high-quality nursing education to meet the diverse and changing healthcare needs of the community and to promote the development of qualified students prepared for the professional role of the entry-level registered nurse. Students are challenged to achieve their goals in a caring, creative, and engaged learning environment.

The foundation for the curriculum is based on the principles of patient-centered care, teamwork and collaboration, clinical reasoning, quality improvement, leadership, information technology, and safety. Based on these principles, faculty mentor, teach, and encourage students to develop competency in the knowledge, skills, and attitudes required to provide safe and effective nursing care.

PROGRAM OUTCOMES

- Provide safe, quality, evidence-based, patient-centered nursing care in a variety of healthcare settings to diverse patient populations across the lifespan;
- Engage in clinical reasoning to make patientcentered care decisions;
- Participate in quality improvement processes to improve patient care;
- Collaborate with members of the interprofessional team, the patient, and the patient's support persons;
- Use information management (informatics) principles, techniques, and systems as well as patient care technology to communicate, manage knowledge, mitigate error, and support decision-making;
- Assimilate leadership, management, legal, and ethical guidelines in practice as a Registered Nurse.

The Nursing program offers both a daytime and an evening/weekend option. Upon enrollment in the college, students must declare their program of study (major) as Health Science - Nursing. Students must be a U.S. citizen or permanent resident. Qualified out-of-county applicants will be considered for admission only after all qualified Mercer County residents are accommodated.

Admission to the college requires a high school diploma or its equivalent, satisfactory performance on the college skills placement test, and completion of any required academic foundations courses.

Admission to the Nursing program requires a cumulative (transfer or Mercer) minimum GPA of 2.5 or higher; an 80% or higher in the English Language Composite and 80% or higher on the math portion of the HESI Admission Assessment Exam; completion of first semester courses (ENG 101, CHE 107, BIO 103 and math elective) with a C or higher, with the exception of BIO 103 (requiring a C+ or higher); and attendance at a mandatory Nursing program information session.

Students must earn a minimum grade of C in all required general education courses and C+ or higher in BIO 103, 104, and 201 as well as all nursing courses in order to progress through the curriculum and graduate.

Upon completion of the program, graduates can apply for licensure as a Registered Nurse through the New Jersey Board of Nursing and are prepared to take the National Council of State Boards of Nursing Licensure Exam (NCLEX-RN). The New Jersey Board of Nursing reserves the right to determine the eligibility for licensure of any student with a history of substance abuse or criminal offenses.

BSN Completion

MCCC students have the opportunity to apply to a variety of BSN completion programs through the college's partnership with four-year Nursing programs, including those of Rutgers University and Felician College, both of which offer RN-BSN completion programs on-campus at Mercer County Community College.

For **further information** on these opportunities as well as details concerning admission to MCCC's Nursing program, visit the program website. Applicants are strongly encouraged to make advisement appointments with the Nursing program office.

SEE ALSO:
 Nursing (Cooperative) degree program

DEGREE CURRICULUM

2021-2022 Academic Year
NUR.B.AS
CIP 513801

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits
FIRST SEMESTER		
BIO 103	Anatomy and Physiology I (3/3)	4
CHE 107	General and Physiological Chemistry (2/1/2)	4
ENG 101	English Composition I (3/0)	3
MAT 125	Elementary Statistics I (3/0)	3

- Consult program coordinator for acceptable alternatives.

Code	Course (lecture/lab hours)	Credits
SECOND SEMESTER		
BIO 104	Anatomy and Physiology II (3/3)	4
ENG 102	English Composition II (3/0)	
	OR	3
ENG 112	English Composition II with Speech (3/0)	
NRS 111	Clinical Reasoning in Nursing Practice (1/0)	1
NRS 112	Concepts of Nursing Practice I (3/3/6)	6

THIRD SEMESTER		
BIO 201	Microbiology (3/3)	4
NRS 125	Concepts of Nursing Practice II (3/3/12)	8
PSY 101	Introduction to Psychology (3/0)	3

FOURTH SEMESTER		
NRS 225	Concepts of Nursing Practice III (3/3/12)	8
PSY 207	Developmental Psychology: Across the Life Span (3/0)	
	OR	3
SOC 101	Introduction to Sociology (3/0)	

FIFTH SEMESTER		
NRS 235	Concepts of Nursing Practice IV (3/3/12)	8
— —	General Education elective	3

- PHI 102 or 205 recommended.

Nursing
Cooperative Program with St. Francis Medical Center
Associate in Science Degree in Liberal Arts and Sciences (A.S.)

Health Professions Division
609.570.3383 admiss@mccc.edu

Mercer County Community College, in collaboration with the diploma School of Nursing at St. Francis Medical Center, awards the Associate in Science degree to students who successfully complete their program of study. Students also receive a diploma from the school of nursing and are eligible to sit for the National Council Licensure Examination (NCLEX) to earn licensure as a registered nurse. St. Francis is accredited by the New Jersey Board of Nursing and the Accreditation Commission for Education in Nursing.

St. Francis combines mathematics, science, and general education courses at the college with nursing courses conducted at their school. The nursing courses integrate classroom activities with clinical experiences in the home hospital and at other agencies in the area. The cooperative program with St. Francis requires attendance for two consecutive years, including summers.

Candidates must meet the admissions requirements of the college and additional requirements specific to the program. Details regarding admission standards, grading and retention policies, and graduation requirements are available from the cooperating nursing school. The cooperative program also maintains a list of baccalaureate nursing programs for students who contemplate transfer.

PROGRAM OUTCOMES

- Pass the National Council Licensure Examination – Registered Nurse;
- Integrate concepts from the sciences and evidence-based nursing practice in the care of diverse patients, families, and communities;
- Effectively communicate and collaborate as a member of the health care team, incorporating technological resources to deliver quality patient-centered care;
- Practice within the legal and ethical parameters of the profession;
- Function competently and safely, incorporating professional standards in the delivery of patient-centered care;
- Employ leadership and management skills in the delivery of patient-centered care;
- Exhibit responsible behavior that is self-directive and encompasses personal and professional growth.

SEE ALSO:
Nursing degree program

DEGREE CURRICULUM

2021-2022 Academic Year
NURS.B.COOP.AS
CIP 513801

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab/clinical hours)	Credits
FALL		
BIO 103	Anatomy and Physiology I (3/3)	4
ENG 101	English Composition I (3/0)	3
PSY 101	Introduction to Psychology (3/0)	3
NSG 131	Concepts of Nursing I (4/0/120)	6
NSG 137	Physical Assessment (0/2)	3
SPRING		
BIO 104	Anatomy and Physiology II (3/3)	4
PSY 207	Developmental Psychology: Across the Life Span (3/0)	3
NSG 135	Concepts of Nursing II (4/0/180)	7
NUR 151	Pharmacology in Nursing (3/0)	3

SUMMER		
ENG 102	English Composition II (3/0)	3
NSG 133	Concepts of Nursing III (2/0/60)	3
MAT —	Mathematics elective	3-4

- Algebraic or Statistical math at 100 level or higher.

FALL		
NSG 234	Concepts of Nursing IV (6/0/180)	9
BIO —	Lab Science elective	4

- Any course in the field of microbiology.

SPRING		
PHI 204	Ethics (3/0)	
	OR	3
PHI 205	Moral Choices (3/0)	
NSG 232	Concepts of Nursing V (6/0/180)	9
		70-71

NOTE: Students must earn a minimum grade of C in all nursing, science, and general education courses to graduate.

Occupational Therapy Assistant

**in cooperation with the School of Health Related Professions
at Rutgers, The State University of New Jersey**
Associate in Science Degree (A.S.)

Health Professions Division
609.570.3383 admiss@mccc.edu

The **Occupational Therapy Assistant** (OTA) program prepares students for a profession serving people of all ages who experience illness, disease, disability, and challenging life circumstances to adapt by participating in meaningful occupations. The program cultivates OTAs as professionals who will contribute to the health and well-being of individuals, groups, and populations in New Jersey and beyond, practicing as dynamic and inter-professional team members within health care, educational, and other community settings.

Students may complete the liberal arts component of the program at Mercer County Community College and take the specialized OTA courses at Rutgers. Admission to the Rutgers program is competitive and not guaranteed. In addition to the pre-professional coursework at MCCC, a number of strict Rutgers entry requirements must be satisfied. Specific admission criteria are outlined in the Rutgers School of Health Professions catalog. In addition, Rutgers maintains student policies related to the OTA program. Contact the MCCC OTA program coordinator or division dean for details.

Upon completion of the program, students are eligible to sit for the national certifying examination offered by the National Board for Certifying Occupational Therapy. Those who pass the test are awarded the title Certified Occupational Therapy Assistant (COTA).

The OTA program at Rutgers is accredited by ACOTE (AOTA); (301) 652-AOTA; www.acoteonline.org

PROGRAM OUTCOMES

- Have acquired an educational foundation in the liberal arts and sciences, including a focus on issues related to diversity;
- Be educated as a generalist with a broad exposure to the delivery models and systems used in settings where occupational therapy is currently practiced and where it is emerging as a service;
- Have achieved entry-level competency through a combination of academic and fieldwork education;
- Be prepared to articulate and apply occupational therapy principles and intervention tools to achieve expected outcomes as related to the occupation;
- Be prepared to be a lifelong learner and keep current with best practices;
- Uphold the ethical standards, values, and attitudes of the occupational therapy profession;
- Understand the distinct roles and responsibilities of the occupational therapist and occupational therapy assistant in the supervisory process;
- Be prepared to advocate as a professional for occupational therapy services offered and for the recipients of those services.

DEGREE CURRICULUM
2021-2022 Academic Year
OCC.THPY.AS
CIP 519999

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Mercer County Community College Courses		
Code	**Course (lecture/lab hours)**	**Credits**
BIO 103	Anatomy and Physiology I (3/3)	4
ENG 101	English Composition I (3/0)	3

PSY 101	Introduction to Psychology (3/0)	3
SOC 101	Introduction to Sociology (3/0)	3
— —	Diversity and Global Perspective general education elective	3
BIO 104	Anatomy and Physiology II (3/3)	4
ENG 102	English Composition II (3/0)	3
MAT 125	Elementary Statistics I (3/0)	3
PHI 204	Ethics (3/0)	3
PSY 207	Developmental Psychology: Across the Life Span (3/0)	3
	Credits Subtotal:	32

Rutgers University Courses		
Code	**Course**	**Credits**
OCTH 1010	Occupational Therapy Foundations for the OTA	3
OCTH 1019	Level I Fieldwork A: Integration and Practice Applications	1
OCTH 1020	Occupational Performance and Participation: Skills and Client Factors	3
OCTH 1031	Conditions Impacting Occupation, Participation, and Health I: Adult / Older Adult	2
PRST 1102	Communication Techniques	3

OCTH 1029	Level I Fieldwork B: Integration and Practice Applications	1
OCTH 1040	Occupational Performance and Participation: Therapeutic Applications	3
OCTH 1051	Principles and Practices I: Wellness and Mental Health	2
OCTH 1052	Principles and Practices II: Rehabilitation, Disability, Aging, and Participation	3
PRST 1103	Group Dynamics	3
OCTH 1032	Conditions Impacting Occupation, Participation, and Health II: Child / Adolescent	2
OCTH 1039	Level I Fieldwork C: Integration and Practice Applications	1
OCTH 1053	Principles and Practices III: Children and Youth	2
OCTH 1071	Professional Seminar I	1
OCTH 2019	OTA Practice, Fieldwork II: Adult / Older Adult	5
OCTH 2029	OTA Practice, Fieldwork II: Child / Adolescent	5
OCTH 2072	Professional Seminar II	2
	Credits Subtotal:	42

NOTE: Rutgers courses are offered starting in the Fall of the second year through Fall of the third year. A minimum of 15 credits must be completed through Mercer County Community College to satisfy residency requirements.

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Oracle SQL Programming and Database Design Specialist

Certificate of Achievement

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Oracle SQL Programming and Database Design Specialist** micro-credential equips students with the skills needed for entry-level positions as a database developer/programmer. Students learn to design a database and program using a live Oracle server with curriculum provided by the Oracle Corporation -- enhancing employability and allowing students to update their technological skills.

Upon completion, students are eligible for and encouraged to take the Level I Developer certification examinations:

* *Oracle Database 11g: Program with PL/SQL*
  exam number 1Z0-144

* *Oracle Database: Advanced PL/SQL*
  exam number 1Z0-148 (PL/SQL is prerequisite)

PROGRAM OUTCOMES

- Explain basic concepts of databases;
- Code using Oracle Structured Query Language programming;
- Code using PL/SQL programming language.

Successful completion of credits from this Certificate of Achievement can be applied toward the Database Administration certificate and Computer Information Systems degree programs.

Admission to the program requires readiness for college-level English and Math and approval from the program coordinator. Students may receive credit for previous training in a skills area by applying for credit by examination, credit by experience, and/or transfer credit as evaluated and approved by the program coordinator.

SEE ALSO:
Computer Information Systems degree program
Computer Networking and Technology degree program
Computer Science degree program
Computer Science certificate program
Computer Support Specialist certificate program
Cybersecurity degree program
Database Administration certificate program
Database Concepts and Skills Associate certificate program
IT System Analyst Associate certificate program
Mobile and Web Computing certificate program
Web Development certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

INFO.TECH.SQL.DB.CRT
CIP 110201

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
FIRST SEMESTER		
IST 109	Introduction to Programming (2/2)	3
SECOND SEMESTER		
IST 253	Database Concepts (2/2)	3
IST 262	Oracle SQL (3/2)	4
THIRD SEMESTER		
IST 222	PL/SQL Programming (2/2)	3
		13

Ornamental Horticulture

Associate in Applied Science Degree (A.A.S.)
Certificate of Proficiency

Horticulture is a profession that combines the creativity of design with the knowledge of science and the practical experience of making projects successful. The **Ornamental Horticulture** A.A.S. degree program trains students in the areas of landscape design, floral design, landscape maintenance, nursery and greenhouse production, and turf maintenance.

Hands-on classes conducted in a complex of two greenhouses, surrounding gardens, and an extensive campus grounds are designed to prepare graduates to excel in a rapidly expanding horticulture industry. Excellent positions are available for trained professionals with strong backgrounds in the specialties covered at Mercer.

PROGRAM OUTCOMES

- Identify, propagate, and care for at least 300 different woody and herbaceous plant specimens;
- Implement a soils management plan using modern irrigation and nutrient control techniques;
- Properly apply common pesticides and fertilizers to achieve optimum growing conditions for plants and crops;
- Produce and manage common greenhouse crops;
- Practice integrated pest management.

Some graduates enter the profession immediately upon graduation, securing employment in nurseries, greenhouses, garden centers, landscape firms, golf courses, flower shops, and a variety of other businesses. Others elect to transfer to four-year institutions such as Delaware Valley University, Temple University, and Rutgers University.

At Mercer, many students work in the industry while pursuing their degree as evening students. In addition to gaining broad knowledge through the Ornamental Horticulture A.A.S. degree core curriculum, students select from among three study concentrations:

The **Ornamental Horticulture** concentration (HORT.ORN.AAS) focuses on the production and use of plant material for aesthetic purposes. This concentration offers a wide variety of elective courses to choose from, so students can pursue the area of horticulture that most interests them.

Through the **Landscape Design** concentration (HORT.LAND.AAS), students learn how to measure a site, draw a base map, draw a design to scale, develop a plant list, color render

the design, and work within a budget. Students also gain experience interviewing and presenting to clients.

The **Floral Design** concentration (HORT.FLOR.AAS) teaches how to identify and order flowers used for designs, process flowers, price arrangements, make corsages and boutonnières, design various arrangements, work with a variety of materials, and gain experience doing more advanced work like wedding and funeral arrangements.

Another practical option for some students is the Certificate of Proficiency in Ornamental Horticulture, which emphasizes concentration in horticulture electives and preparation for direct entry into a career in horticulture. Credits earned can be applied toward the Ornamental Horticulture A.A.S. degree.

SEE ALSO:

Mercer's Plant Science A.S. degree closely parallels a degree program in biology. With its emphasis on botany and plant materials, this program is especially suited for students planning to transfer into environmental and natural resource management programs at four-year colleges.

DEGREE CURRICULUM

2021-2022 Academic Year

HORT.ORN.AAS
HORT.LAND.AAS
HORT.FLOR.AAS
CIP 010603

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CSW 100	College Success and Personal Wellness (2/0) • Some exemptions apply. Consult academic advisor for details.	2	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you

ENG 101	English Composition I (3/0)	3
OHT 101	Plant Science (2/2)	3
MAT —	Mathematics elective	4

- In consultation with an academic advisor, select from MAT 140 (if not intending to transfer) or 146 (if intending to transfer to a baccalaureate program).

— —	Social Science general education elective	3

SECOND SEMESTER

BIO 202	Woody Plants (3/3)	4
ENG 102	English Composition II (3/0)	3
OHT 102	Ornamental Horticulture (2/2)	3
OHT 108	Soil and Plant Nutrition (3/3)	4

SPRING, SUMMER, or FALL			
OHT 291	Ornamental Horticulture Cooperative Education I	3	

THIRD SEMESTER			
OHT 121	Herbaceous Plants (2/2)	3	✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.
OHT 219	Plant Propagation (2/2)	3	
OHT —	**Concentration elective**	3	
OHT —	**Concentration elective**	3	✓ Work with Career Services to formulate plans for after you've earned this degree.
— —	Humanities general education elective	3	

- Spanish (SPA) strongly recommended.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER			
OHT 241	Equipment and Integrated Pest Management (2/2)	3	✓ Get ready to start your career! Begin the job application process.
OHT 292	Ornamental Horticulture Cooperative Education II	1	
OHT —	**Concentration elective**	3	✓ Discuss your career plans with your faculty
OHT —	**Concentration elective**	3	

—	—	[Social Science or Humanities general education elective](#)	3

advisor. S/he can help you transition successfully.

- Spanish (SPA) strongly recommended.

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Code	Course (lecture/lab hours)	Credits
Ornamental Horticulture CONCENTRATION electives		
[OHT 204](#)	Plant Diseases (2/2)	3
[OHT 232](#)	Nursery Management I (2/2)	3
[OHT](#) —	Technical elective	3

- Select from OHT 201, 202, 204, 207, 208, 212, 226, 231, 232.

[OHT](#) —	Technical elective	3

- Select from OHT 201, 202, 204, 207, 208, 212, 226, 231, 232.

Code	Course (lecture/lab hours)	Credits
Landscape Design CONCENTRATION electives		
[OHT 201](#)	Basic Landscaping and Planning I (2/3)	3
[OHT 202](#)	Basic Landscaping and Planning II (2/3)	3
[OHT 204](#)	Plant Diseases (2/2)	3
[OHT 212](#)	Landscape Construction (2/2)	3

Floral Design CONCENTRATION electives		
OHT 207	Floral Design I (2/2)	3
OHT 214	Floral Design II (2/2)	3
OHT 226	Interior Landscape Design (2/2)	3
OHT —	Technical elective	3

- Select from OHT 201, 202, 204, 207, 208, 212, 226, 231, 232.

CERTIFICATE CURRICULUM

2021-2022 Academic Year
HORT.CERT
CIP 010603

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ENG 101	English Composition I (3/0)	3
OHT 101	Plant Science (2/2)	3
OHT 102	Ornamental Horticulture (2/2)	3
OHT 291	Ornamental Horticulture Cooperative Education I	3
— —	Science elective	3-4

- Select from BIO 101, 114, 203, 204; CHE 101, 105.

— —	Technical electives	17-18

- Select from all OHT courses; BIO 202; CHE 100.

32-34

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

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Paralegal** degree program provides students with an initial foundation in legal studies that includes general education, legal specialty and survey courses designed to prepare students for an entry-level career in the legal field. Students gain valuable skills and knowledge while learning from leaders in the legal profession.

This degree program is approved by the American Bar Association (ABA).

PROGRAM OUTCOMES

- Understand the roles and responsibilities of legal professionals in a variety of legal employment settings;
- Identify and implement standards of legal ethics and professionalism;
- Demonstrate practical skills in a range of substantive legal areas;
- Engage in effective written and verbal professional communication;
- Develop appropriate methods for embarking on a legal career.

As part of this degree program, each student must complete 18 credits of designated legal specialty courses which include 9 credits (three courses) of core legal specialty courses which must be attained through synchronous instruction. The remaining courses are offered online, on campus, daytime and/or evening.

The following legal specialty courses do not generally qualify for transfer into the degree program: LEG 129, LEG 130, LEG 132, LEG 133, LEG 143, and LEG 255. Students may transfer other non-legal specialty courses within the degree requirements, pending review and approval.

Legal specialty courses are designed to provide students with instruction in practical paralegal skills and substantive legal theory. All are taught by attorneys, judges, and doctorate-level legal educators.

In the United States, paralegals may not provide legal services directly to the public or engage in the practice of law, except as permitted by law. In New Jersey, only an attorney who is admitted to the state bar may practice law.

This program is designed for students who are seeking a flexible and affordable path to earn an ABA-approved degree.

SEE ALSO:

Paralegal certificate program

DEGREE CURRICULUM

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CSW 100	College Success and Personal Wellness (2/0) • Some exemptions apply. Consult academic advisor for details.	2	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree. ✓ Use your online tools: Check your MercerMaildaily, utilize features of Office 365, and get to know Student Planning. ✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
ENG 101	English Composition I (3/0)	3	
LEG 129	Role of the Paralegal (3/0)	3	
LEG 130	Civil Litigation I (3/0)	3	
MAT 120	Mathematics for Liberal Arts (3/0) • Consult intended transfer institution(s) regarding their mathematics requirements and academic advisor for acceptable alternatives.	3	

SECOND SEMESTER

BUS 107	Business Law I (3/0)	3
ENG 102	English Composition II (3/0)	3
IST 101	Computer Concepts with Applications (2/2)	3
LEG 132	Civil Litigation II (3/0)	3
LEG 133	Legal Research and Writing (3/0)	3

✓ Transitioning to college can be challenging. Meet with your Success Coachfor guidance and support.

✓ Apply for financial aidby May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

BUS 108	Business Law II (3/0)	3
CRJ 202	Criminal Law (3/0)	3
LEG 143	Family Law (3/0)	3
LEG 255	Legal Ethics (3/0)	3
LEG 256	Career Development for Law and Justice Professionals (1/0)	1

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

		Science elective	3

- BIO 114 is the recommended elective for students intending to transfer to a four-year institution. Those planning to transfer should determine if a lab science is required before choosing the Science elective.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

CMN 112	Public Speaking (3/0)	
	OR	3
CMN 111	Speech: Human Communication (3/0)	
OST 219	Word Processing Concepts and Applications (2/2)	
	OR	3

- OST 219 required unless comparable training completed in other undergraduate courses.

		Program elective	

- Select from BUS 111, 230; CRJ 207, 212; HOS 208; LEG 208, 232, 257.

✓ Get ready to start your career! Begin the job application process.

✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

—	—	Program elective	3	

- Select from BUS 111, 230; CRJ 207, 212; HOS 208; LEG 208, 232, 257.

—	—	Diversity and Global Perspective general education elective	3	
—	—	Social Science or Humanities general education elective	3	
			60	

NOTE: All students must complete 18 credits of required legal specialty courses LEG 129, 130, 132, 133, 143, and 255 -- none of which may be transferred from other institutions or (except for 143 and 255) completed through MercerOnline.

NOTE: Electives should be selected in consultation with the program coordinator in order to assure maximum transfer of credits. Students require a minimum of 18 hours of ABA recognized general education electives.

Paralegal
Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Paralegal** Certificate of Proficiency program generally includes only legal specialty and law-related courses and is relatively short in duration. Proof of a prior associate or bachelor's degree is required prior to admission and students must demonstrate at least 18 credits of approved general education coursework in that degree.

This certificate program is approved by the American Bar Association (ABA).

PROGRAM OUTCOMES

- Understand the roles and responsibilities of legal professionals in a variety of legal employment settings;
- Identify and implement standards of legal ethics and professionalism;
- Demonstrate practical skills in a range of substantive legal areas;
- Engage in effective written and verbal professional communication;
- Develop appropriate methods for embarking on a legal career.

As part of this post-degree certificate program, each student must complete 18 credits of designated legal specialty courses which include 9 credits (three courses) of core legal specialty courses which must be attained through synchronous instruction. The remaining courses are offered online, on campus, daytime and/or evening.

The following legal specialty courses do not generally qualify for transfer into the certificate program: LEG 129, LEG 130, LEG 132, LEG 133, LEG 143, and LEG 255. Students may transfer up to six (6) credits of qualified non-legal specialty courses into the certificate program, pending review and approval.

Legal specialty courses are designed to provide students with instruction in practical paralegal skills and substantive legal theory. All are taught by attorneys, judges, and doctorate-level legal educators.

In the United States, paralegals may not provide legal services directly to the public or engage in the practice of law, except as permitted by law. In New Jersey, only an attorney who is admitted to the state bar may practice law.

The ABA-approved certificate program is designed to provide the education to prepare for an entry-level paralegal career working under the supervision of an attorney, expand employment opportunities, or to advance an existing paralegal career.

CERTIFICATE CURRICULUM
2021-2022 Academic Year
PARLGL.CERT
CIP 220302

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
LEG 129	Role of the Paralegal (3/0)	3

- *Must be among first three courses taken.*

LEG 130	Civil Litigation I (3/0)	3

- *Must be among first three courses taken.*

LEG 133	Legal Research and Writing (3/0)	3

- *Must be among first three courses taken.*
- ENG 101 or its equivalent is a prerequisite for LEG 133; consequently, the student's prior degree must include an English composition course equivalent to Mercer's ENG 101 with a minimum C grade.

LEG 143	Family Law (3/0)	3
— —	Program elective	3

- Select from BUS 107, 108, 111, 230; CRJ 202, 207, 212; HOS 208; LEG 208, 232, 257.

LEG 132	Civil Litigation II (3/0)	3
LEG 255	Legal Ethics (3/0)	3
LEG 256	Career Development for Law and Justice Professionals (1/0)	1

OST 219	Word Processing Concepts and Applications (2/2)	
	OR	3

- OST 219 required unless comparable training completed in other undergraduate courses.

BUS 108	Business Law II (3/0)	
— —	Program elective	3

- Select from BUS 107, 108, 111, 230; CRJ 202, 207, 212; HOS 208; LEG 208, 232, 257.

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NOTE: Prior to enrolling in this certificate program, students must present proof of award of an associate or bachelor's degree and must have successfully completed (with minimum C grade) a basic English composition course and at least one other general education course.

NOTE: All students must complete 18 credits of required legal specialty courses LEG 129, 130, 132, 133, 143, and 255 -- none of which may be transferred from other institutions or (except for 143 and 255) completed through MercerOnline.

2021-2022 Academic Year

Photography

Associate in Fine Arts Degree in Visual Arts (A.F.A.)
Certificate of Proficiency

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Photography** program provides for development of skills and creativity in both film-based and digital photography. Topics covered include camera operation, exposure, processing, retouching, manipulation/montage, printing and other forms of media output as well as the use of artificial and natural lighting.

The program incorporates a balance of traditional and digital photographic techniques allowing students to understand technology's role in photography. It encourages aesthetic growth while creating a balance between personal expression and commercial application. Emphasis on experiences in the darkroom, digital laboratory, on location, and in the studio develops both the creative ability and the technical skills essential to photography careers and transfer to four-year institutions.

Some courses are offered both day and evening. If the required courses are taken starting in the summer, the certificate can be completed in one year of full-time study. The Associate in Fine Arts degree is a two-year program. Before completion of either program, students are required to develop a portfolio to serve in the pursuit of further education or employment.

DEGREE PROGRAM OUTCOMES

- Demonstrate proficiency with photographic capture devices;
- Process, manipulate, and print images in photographic labs;
- Practice archival image work flow;
- Identify and explain the significant events in art history as well as contemporary practices;
- Integrate different techniques and approaches to photography and digital imaging;
- Analyze and evaluate images in the context of group critiques;
- Create a portfolio for education transfer.

CERTIFICATE PROGRAM OUTCOMES

- Demonstrate proficiency with photographic capture devices;
- Practice archival image work flow;
- Integrate different techniques and approaches to photography and digital imaging;
- Analyze and evaluate images in the context of group critiques;
- Create a portfolio for employment, or artistic venues.

Students from the degree program have transferred to major art schools such as the School of Visual Arts and Mason Gross School of the Arts / Rutgers. Students wishing to transfer should consult the program coordinator or their academic advisor concerning transfer agreements with four-year institutions.

SEE ALSO:
Visual Arts degree program

DEGREE CURRICULUM
2021-2022 Academic Year
PHOTO.AFA
CIP 500101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
DMA 110	Digital Imaging (1/4)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ENG 101	English Composition I (3/0)	3	
PHO 101	Black & White Film Photography I (2/3)	3	
PHO 103	Digital Photography I (2/3)	3	
— —	Social Science general education elective	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning. ✓ Take advantage of Learning

SECOND SEMESTER

ART 102	Basic Drawing (1/4)	
	OR	3
ART 105	Two-Dimensional Design (1/4)	
CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
MAT —	Mathematics elective	3
	• MAT 120 or 125 recommended. Select in consultation with an academic advisor.	
PHO 110	History of Photography (3/0)	3
PHO 203	Photography II (1/4)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

ART 122	History of Art II (3/0)	3
DMA 250	Digital Portfolio Seminar (1/4)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure

ENG 102	English Composition II (3/0)	3
PHO 202	Studio Photography (1/4)	3
— —	Science OR Technology general education elective	3

- DMA 144 recommended.

you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

ADV 210	Typography II: Publication Design (1/4)	3
ART 121	History of Art I (3/0)	
	OR	3
ART 125	Topics in Contemporary Art (3/0)	
CMN 146	Social Media Technologies (2/2)	3
PHO 251	Documentary Photography (1/4)	3
— —	General Education elective	3

- Select course from the following general education categories: Humanities, Historical Perspective, Diversity and Global Perspective.

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

CERTIFICATE CURRICULUM

2021-2022 Academic Year
PHOTO.CERT
CIP 500101

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
DMA 110	Digital Imaging I (1/4)	3
ENG 101	English Composition I (3/0)	3
PHO 103	Digital Photography I (2/3)	3
ADV 210	Typography II: Publication Design (1/4)	3
CMN 146	Social Media Technologies (2/2)	3
PHO 202	Studio Photography (1/4)	3
PHO 203	Photography II (1/4)	3
DMA 250	Digital Portfolio Seminar (1/4)	3
PHO 110	History of Photography (3/0)	3
PHO 251	Documentary Photography (1/4)	3
		30

MERCER
COUNTY COMMUNITY COLLEGE

Physical Therapist Assistant
Associate in Applied Science Degree (A.A.S.)

Health Professions Division
609.570.3383 admiss@mccc.edu

The **Physical Therapist Assistant** (PTA) program combines courses in general education and physical therapy with supervised clinical experiences in area clinics, hospitals, and private practices. The PTA program at Mercer County Community College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, VA 22314; 703-706-3245 www.capteonline.org

Graduates are eligible to take the National Physical Therapy Examination for licensure as physical therapist assistants and be recognized by the State of New Jersey Department of Law & Public Safety, Division of Consumer Affairs, State Board of Physical Therapy Examiners, which regulates the practice of physical therapy in the state of New Jersey.

PTAs work under the supervision and direction of a physical therapist and are employed by acute, post-acute, and outpatient physical therapy facilities.

PROGRAM OUTCOMES

- To maintain high-quality PTA courses and instruction for a diverse student population;
- To provide meaningful and effective services and activities that support student success and preparation for safe and competent clinical practice;
- To foster learning environments that celebrate and value diversity and respect;
- To manage resources that support affordability, quality teaching, innovation, and safe learning environments;
- To foster community connections with providers of quality physical therapy to enhance the vitality of the PTA program and contribute to the physical therapy community;
- To provide an environment that creates adaptive learners who are able to function in complex, uncertain, and novel situations;
- To intentionally focus on learner development of professional identity and commitment to the physical therapy profession;
- To maintain a commitment to assessment to evaluate the PTA program's success in meeting these goals.

Applicants must have a high school diploma or the equivalent with at least one year of a high school laboratory science. Students who did not complete at least one year of a high school laboratory science and those students whose background in the sciences is old or weak may be expected to complete one or more of the following courses: Physical Science Concepts (PHY 111), Introductory Chemistry (CHE 100), Biological Science Concepts (BIO

113). Full acceptance into the program requires satisfactory performance on the college skills placement test or completion of any required remediation.

Enrollment in the program is limited and based upon an application process. Details regarding the admissions criteria and application process are available on the PTA program website as well as through the Enrollment Services office or Health Professions division.

All professional phase PTA students are required to undergo a criminal background check, obtain a physical examination, and fulfill other health records requirements prior to commencing the clinical portion of the program. The New Jersey Board of Physical Therapy Examiners has the right to determine eligibility for licensure. For additional information, contact the PTA program coordinator.

DEGREE CURRICULUM
2021-2022 Academic Year
PTA.B.AAS
CIP 510806

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits
PRE-PROFESSIONAL PHASE		
BIO 103	Anatomy and Physiology I (3/3)	4
ENG 101	English Composition I (3/0)	3
PSY 101	Introduction to Psychology (3/0)	3
MAT —	Mathematics elective	3-4

- Select from MAT 115, 125, 140, 200, or approved alternative.

BIO 104	Anatomy and Physiology II (3/3)	4

CSH 100	College Success for Health Professions (1/1)	2

- Some exemptions apply. Consult academic advisor for details.

ENG 102	English Composition II (3/0)	3

PTA 105	Kinesiology (3/0)	3

— —	General Education elective	3

- Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

PROFESSIONAL PHASE

PTA 107	Therapeutic Measurement (1/2)	2

PTA 112	Pathology for PTAs (3/0)	3

— —	First Aid and CPR Certification	–

- Students must hold current certifications in First Aid and CPR for Professionals prior to the start of the Clinical Education courses.

PTA 201	Therapeutic Exercise (1/2)	2

- Courses are interrupted for four weeks for the Clinical Education course included in the semester. Class times have been adjusted accordingly.

PTA 210	PTA Techniques (3/2)	4

- Courses are interrupted for four weeks for the Clinical Education course included in the semester. Class times have been adjusted accordingly.

| PTA 211 | Physical Agents (3/3) | 4 |

- Courses are interrupted for four weeks for the Clinical Education course included in the semester. Class times have been adjusted accordingly.

| PTA 224 | PTA Clinical Education I (160 hours) | 3 |

| PTA 227 | PTA Seminar (3/0) | 3 |

- Courses are interrupted for four weeks for the Clinical Education course included in the semester. Class times have been adjusted accordingly.

| PTA 205 | Motor Development (1/0) | 1 |

| PTA 213 | PTA Therapy Clinic (3/3) | 3 |

- Courses are interrupted for five weeks for the Clinical Education course included in the semester. Class times have been adjusted accordingly.

| PTA 216 | Orthopedics in PTA (1/2) | 2 |

- Courses are interrupted for five weeks for the Clinical Education course included in the semester. Class times have been adjusted accordingly.

| PTA 235 | PTA Clinical Education II (200 hours) | 4 |

| PTA 237 | PTA Professional Development (3/0) | 3 |

- Courses are interrupted for five weeks for the Clinical Education course included in the semester. Class times have been adjusted accordingly.

| PTA 240 | PTA Clinical Education III (240 hours) | 5 |

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NOTE: Students must earn a minimum grade of C+ in all PTA, mathematics, and science courses. All PTA courses may only be attempted twice.

Physics

Associate in Science Degree in Liberal Arts and Sciences (A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Physics** option of the Liberal Arts and Sciences program prepares students to enter the junior level of a baccalaureate degree program leading to careers in the fields of physics and engineering.

This program conforms to the provisions of the New Jersey Statewide Transfer Agreement. An A.S. degree in Physics from Mercer County Community College will be fully transferable as the first two years of a baccalaureate degree program at New Jersey public four-year institutions. Students also have transferred to other four-year institutions throughout the country.

Students may complete the degree in two years, and in less time by taking advantage of summer courses.

PROGRAM OUTCOMES

- Understand the basic laws and principles of physics and engineering;
- Demonstrate working knowledge of scientific instruments through hands-on laboratory experience;
- Exhibit strong problem-solving and critical thinking skills;
- Communicate effectively both with the scientific community and the general public.

DEGREE CURRICULUM

2021-2022 Academic Year
PHYSICS.AS
CIP 240101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CSW 100	College Success and Personal Wellness (2/0) • Some exemptions apply. Consult academic advisor for details.	2	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
MAT 151	Calculus I for the Mathematical and Physical Sciences (4/0)	4	
PHY 115	University Physics I (3/3)	4	
— —	Humanities general education elective	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
SECOND SEMESTER			
COS 101	Introduction to Computer Science (3/2)	4	✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.
ENG 102	English Composition II (3/0)	3	✓ Apply for financial aid by May 1.
MAT 152	Calculus II for the Mathematical and Physical Sciences (4/0)	4	
PHY 215	University Physics II (3/3)	4	✓ Contact professors with questions and use their office hours to develop a connection.
			✓ Apply for Continuing Student scholarships

at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
MAT 251	Calculus III (4/0)	4
— —	Science elective	4
	• Select from CHE 101, 102; BIO 101, 102, 201, 202, 203, 204, 208.	
— —	Social Science general education elective	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

MAT 252	Differential Equations (4/0)	4
— —	Science elective	4

- Select from CHE 101, 102; BIO 101, 102, 201, 202, 203, 204, 208.

— —	Science elective	4

- Select from CHE 101, 102; BIO 101, 102, 201, 202, 203, 204, 208.

— —	Social Science or Humanities general education elective	3

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✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

Plant Science

Associate in Science Degree (A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Plant Science** program prepares students for the junior year of study at a college or university offering such fields as horticulture, botany, conservation, environmental science, ecology, and forestry. Horticulture students who plan to pursue a baccalaureate degree should consider this alternative.

Facilities to support the program include well-equipped biology and chemistry laboratories, a modern greenhouse complex, and an extensive woody plants collection throughout the 292-acre West Windsor Campus. Occasional field trips to Longwood Gardens, the New Jersey Pine Barrens, Marquand Park, and elsewhere offer additional opportunities for specialized study of plant specimens.

PROGRAM OUTCOMES

- Explain the structures and processes related to plant growth and function;
- Identify common insects, diseases, and woody plants found in our region;
- Understand key environmental issues as they relate locally, nationally, and globally;
- Exhibit proficiency in the laboratory and in the field by using standard equipment and measurement and observation techniques that allow one to gather, analyze, and interpret qualitative and quantitative data;
- Transfer and successfully pursue a baccalaureate degree in a related field.

Admission to the Plant Science program requires a high school diploma or its equivalent with at least one year of science (biology or chemistry) and two years of algebra.

SEE ALSO:
Biology degree program
Ornamental Horticulture degree program
Ornamental Horticulture certificate program

DEGREE CURRICULUM

2021-2022 Academic Year
PLANT.SCI.AS
CIP 011101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
BIO 101	General Biology I (3/3)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ENG 101	English Composition I (3/0)	3	
OHT 101	Plant Science (2/2)	3	
— —	Humanities general education elective	3	
— —	Social Science general education elective	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

[BIO 102](#)	General Biology II (3/3)	4
[CMN 111](#)	Speech: Human Communication (3/0)	
	OR	3
[CMN 112](#)	Public Speaking (3/0)	
[ENG 102](#)	English Composition II (3/0)	3
[MAT 146](#)	Pre-Calculus (4/0)	4

✓ Transitioning to college can be challenging. Meet with your [Success Coach](#) for guidance and support.

✓ Apply for [financial aid](#) by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at [www.mccc.edu/m-scholarships](#).

✓ Begin attending college transfer events and visit campuses. Be sure to visit the [Transfer Services](#) and [Career Services](#) offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

[BIO 203](#)	Entomology (3/3)	4
[BIO 204](#)	Ecology (3/3)	4
[CHE 101](#)	General Chemistry I (3/3)	4
[OHT 204](#)	Plant Diseases (2/2)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

BIO 202	Woody Plants (3/3)	4
CHE 102	General Chemistry II (3/3)	4
OHT 108	Soil and Plant Nutrition (3/3)	4
— —	Social Science or Humanities general education elective	3

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

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NOTE: Plant Science majors must earn a minimum grade of C in all BIO and OHT courses.

Professional Acting
Certificate of Achievement

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Professional Acting** micro-credential is designed for those seeking to expand their skills in performance for personal growth and employment advancement.

Combining intensive classroom study and performance, the program is dedicated to developing an actor who can cope with the demands of the contemporary stage and work with a range of dramatic materials – from classical to modern – that reflect current productions in the theatre centers of the United States.

PROGRAM OUTCOMES

- Demonstrate proficiency in acting;
- Conduct research in preparation for performing a role;
- Independently interpret dramatic literature for performance;
- Use a variety of acting, movement, and vocal techniques to craft a performance;
- Work collaboratively with artistic and production staff;
- Create successful auditions by preparing materials and exhibiting professional conduct.

Successful completion of credits from this Certificate of Achievement can be applied toward the Theatre degree programs.

Admission to the program requires readiness for college-level English and Math and approval from the program coordinator. Students may receive credit for previous training in a skills area by applying for credit by examination, credit by experience, and/or transfer credit as evaluated and approved by the program coordinator.

SEE ALSO:
Theatre A.A. degree program
Theatre A.F.A. degree program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

THTR.ACT.CRT
CIP 500101

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
THR 104	Fundamentals of Acting (2/2)	3
THR 207	Scene Study I (3/0)	3
VPA 228	Artistic Collaboration Workshop (2/2)	3

- Consult program coordinator concerning ENG 101 prerequisite.

Code	Course (lecture/lab hours)	Credits
THR 105	Acting II: Principles of Characterization (2/2)	3
THR 217	Theatre Production (1/5)	3
		15

Professional Baking

Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Professional Baking** certificate program prepares graduates for employment in individual bake shops or in the bakery production departments of healthcare institutions, restaurants, supermarkets, hotels, catering businesses or cruise ships.

PROGRAM OUTCOMES

- Prepare a wide variety of foodservice bakery products;
- Use safe and sanitary methods in the production of a wide variety of bake shop goods within many commercial and noncommercial bakery production businesses;
- Use basic, intermediate and advanced baking techniques and tools within any bake shop operation;
- Assess overall quality of the baked goods produced and served;
- Use standardized recipes;
- Apply culinary terminology used within the food service industry;
- Appraise the needs of and have the ability to purchase food and nonfood supplies for commercial bakery operations.

Most of the credits earned in acquiring the Professional Baking Certificate can be applied towards the college's associate degree programs.

Admission to the program requires a high school diploma or its equivalent.

SEE ALSO:
Culinary Arts degree program
Culinology / Food Science degree program
Professional Cooking certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year
CUL.PROF.BAKE.CERT
CIP 120501

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ENG 101	English Composition I (3/0)	3
HOS 100	Hospitality Success Skills (1/0)	1
HOS 101	Food Preparation I (1/4)	3
HOS 110	Breakfast / Pantry (1/3)	2
HOS 111	Culinary Math (1/0)	1
HOS 118	Sanitation and Safety in Food Service Operations (2/0)	2
HOS 217	Professional Baking I (1/4)	3
HOS 115	Food and Culture (2/2)	3
HOS 218	Professional Baking II (1/4)	3
HOS 219	Professional Baking III (1/3)	2
HOS 230	Experimental Kitchen (1/3)	2
HOS 245	Chocolates and Confections / Retail Bakeshop (1/4)	3
HOS 249	Advanced Pastry (1/3)	2
HOS 287	Hotel/Restaurant Management Internship	1

Professional Cooking

Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Professional Cooking** certificate program prepares individuals for professional entry into the food service industry. It provides a working knowledge of commercial preparation of a wide variety of food products combined with hands-on skills.

Graduates can participate professionally in the food production departments of restaurants, hotels, conference centers, hospitals and nursing homes, catering operations, and many other types of food service businesses. In some cases, this education prepares students to enter supervisory positions.

PROGRAM OUTCOMES

- Prepare a wide variety of food products used in the food service industry;
- Prepare a wide variety of food service bakery goods;
- Use standardized recipes;
- Apply the culinary terminology used within the food service industry;
- Plan and develop appropriate menus which meet the criteria of commercial food operations;
- Demonstrate the techniques necessary to prepare healthful food products for commercial food operations;
- Plan and direct food production in commercial food operations;
- Appraise the needs of, and have the ability to purchase food and nonfood supplies for, commercial food operations;
- Apply the requirements for operating a safe and sanitary food service operation including Hazard Analysis and Critical Control Points (HACCP).

Most of the credits earned in acquiring the Professional Cooking Certificate can be applied towards the college's associate degree programs and for transfer to Johnson & Wales University.

Admission to the program requires a high school diploma or its equivalent.

SEE ALSO:
Culinary Arts degree program
Culinology / Food Science degree program
Professional Baking certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year
CUL.PROF.COOK.CERT
CIP 120505

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ENG 101	English Composition I (3/0)	3
HOS 100	Hospitality Success Skills (1/0)	1
HOS 101	Food Preparation I (1/4)	3
HOS 111	Culinary Math (1/0)	1
HOS 115	Food and Culture (2/2)	3
HOS 118	Sanitation and Safety in Food Service Operations (2/0)	2
HOS 102	Food Preparation II (1/4)	3
HOS 109	Advanced Culinary Arts (1/4)	3
HOS 110	Breakfast / Pantry (1/3)	2
HOS 210	Applied Kitchen Skills – Cafe (1/4)	3
HOS 217	Professional Baking (1/4)	3
HOS 287	Hotel/Restaurant Management Internship	1

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Public Health

Associate in Science Degree (A.S.)

Health Professions Division
609.570.3383 admiss@mccc.edu

Public health is the practice of maintaining a healthy population through education, research, public policy, regulation of health systems and working health professionals. Public health professionals protect the health of the community, promote healthy lifestyles, and prevent disease and injury through research and education. Public health has been a national objective for more than three decades with focuses on increased public awareness, health equity, healthful behaviors across all life stages, and interaction of national, state, and local stakeholders to strengthen policies and improve practices (e.g., Healthy People 2020).

The A.S. degree in **Public Health** exposes students to the various contributors to public health – including the natural sciences, mathematics, ethics, and social sciences – to form a foundation of public health education. Students are afforded a strong background in science and math along with the general education requirements appropriate for continued Public Health study at a four-year institution.

Successful graduates of this program will be able to transfer to Mercer's articulation affiliates (Rutgers: Edward J. Bloustein School of Planning and Public Policy or William Paterson University) to pursue a bachelor's degree in their chosen area of specialization. Elsewhere in the state, Richard Stockton College and Montclair State University offer a B.S. in Public Health or Health Education while The College of New Jersey and Drew University offer a minor in Public Health.

PROGRAM OUTCOMES

- Demonstrate an understanding of the fundamental concepts of public health;
- View the world and all of its resources with a greater understanding, insight, and appreciation with regard to public health;
- Understand key health issues as they relate locally, nationally, and globally;
- Demonstrate the ability to apply the scientific method of inquiry to gather and use information for the purpose of critical thinking, information analysis, and problem solving;
- Recognize that knowledge of history, literature, geography, and economics all play an important role in public health;
- Transfer and successfully pursue a baccalaureate degree in public health.

DEGREE CURRICULUM

2021-2022 Academic Year

PUBLIC.HEALTH.AS
CIP 512201

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
BIO 103	Anatomy and Physiology I (3/3)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CSH 100	College Success for Health Professions (1/1) • Some exemptions apply. Consult academic advisor for details.	2	
ENG 101	English Composition I (3/0)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
MAT 125	Elementary Statistics I (3/0)	3	
PSY 101	Introduction to Psychology (3/0)	3	✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
SECOND SEMESTER			
BIO 104	Anatomy and Physiology II (3/3)	4	

ENG 102	English Composition II (3/0)	3
HPE 113	Medical Terminology (3/0)	3
PBH 101	Principles of Public Health (3/0)	3
SOC 101	Introduction to Sociology (3/0)	
	OR	3
SOC 107	Social Problems (3/0)	

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

CHE 107	General and Physiological Chemistry (2/1/2)	4
CMN 111	Speech: Human Communication (3/0)	
	OR	3
	• Course choice based on anticipated transfer institution and student's desired area of concentration. Select in consultation with program coordinator in order to assure maximum transfer of credits.	
CMN 112	Public Speaking (3/0)	

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting

[PHI 204](#)	Ethics (3/0)	3
[PSY 206](#)	Child Development (3/0)	
	OR	3
[PSY 207](#)	Developmental Psychology: Across the Life Span (3/0)	
[SUS 101](#)	Introduction to Sustainability (3/0)	
	OR	3
	• Course choice based on anticipated transfer institution and student's desired area of concentration. Select in consultation with program coordinator in order to assure maximum transfer of credits.	
[HIS](#) —	History elective	

FOURTH SEMESTER

[BIO 201](#)	Microbiology (3/3)	4
[HPE 101](#)	Basic Concepts of Nutrition (3/0)	3
[PSY 210](#)	Abnormal Psychology (3/0)	
	OR	3
[PSY 215](#)	Human Sexuality (3/0)	
[SOC 209](#)	Racial, Ethnic and Minority Groups (3/0)	
	OR	3
	• Course choice based on anticipated transfer institution and student's desired area of concentration. Select in consultation with program coordinator in order to assure maximum transfer of credits.	
[SOC 214](#)	Sociology of Drug Use and Behavior (3/0)	

Sidebar:

involved in [activities and clubs](#).

✓ Manage your stress! Take advantage of the MCCC pool, [Fitness Center](#), free yoga and Zumba. Reach out for [counseling](#) or other support if you need it. Your [Success Coach](#) can connect you with resources.

✓ Apply for [financial aid](#) by May 1.

✓ Talk to your faculty advisor and the [Transfer office](#) for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at [www.mccc.edu/m-scholarships](#).

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

Health Professions Division
609.570.3383 admiss@mccc.edu

The **Radiography** program combines courses in general education and radiography with supervised clinical experience in area hospitals. Graduates are eligible to take the American Registry of Radiologic Technologist Examination in Radiography to become nationally certified and licensed by the State of New Jersey.

The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 North Wacker Drive, Suite 2850, Chicago, IL 60606; 312-704-5300 www.jrcert.org ...and the New Jersey Radiologic Technology Board of Examiners. Graduates are employed by hospitals, clinics, diagnostic imaging centers, and the offices of private physicians.

PROGRAM OUTCOMES

- Apply the essential skills to perform diagnostic radiographic procedures competently as entry-level radiographers;
- Communicate effectively in a health care facility;
- Apply effective critical thinking to problem solve;
- Exercise values and attitudes consistent with professional practice.

Applicants must have a high school diploma or the equivalent with one year of laboratory physics and two years of academic mathematics. Students who have not completed these courses within the last five years may fulfill this requirement by completing Basic Algebra (MAT 034) and Fundamentals of Physics (PHY 109).

In order to be accepted into the professional phase of the radiography program, the student must have completed all basic skills and ESL courses and be eligible to enroll in college-level English and mathematics. Students must be at least 18 years of age by January of their first year in radiography courses. Enrollment in the professional phase of the radiography program is limited, with priority given to radiography science students who have completed Anatomy and Physiology courses (BIO 103 and 104), Elementary Statistics (MAT 125), and Fundamentals of Physics (PHY 109).

Details regarding the acceptance procedure are available on the college website and may be obtained by contacting the Enrollment Services office or the Health Professions division.

Prior to enrollment in first semester radiography courses, students must obtain a physical examination to include immunizations and lab analyses from a licensed practitioner, and complete a criminal background check. The American Registry of Radiologic Technologists has the right to determine eligibility for certification with regard to misdemeanor and felony convictions and violations of academic integrity. The New Jersey Radiologic Board of Examiners has the right to determine eligibility for licensure. For additional information, contact the Radiography program coordinator.

DEGREE CURRICULUM
2021-2022 Academic Year
RAD.B.AAS
CIP 510907

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab/clinical hours)	Credits
PRE-PROFESSIONAL PHASE		
FIRST SEMESTER		
BIO 103	Anatomy and Physiology I (3/3)	4
ENG 101	English Composition I (3/0)	3
MAT 125	Elementary Statistics I (3/0)	3
PSY 101	Introduction to Psychology (3/0)	3

SECOND SEMESTER

BIO 104	Anatomy and Physiology II (3/3)	4
ENG 102	English Composition II (3/0)	3
PHY 109	Fundamentals of Physics (2/2)	3
— —	General Education elective	3

- Select PHI 204 or 205, or course from Diversity and Global Perspective general education category.

PROFESSIONAL PHASE

FIRST SEMESTER (Fall)

RAD 102	Introduction to Radiography and Patient Care (1/2)	2
RAD 119	Principles of Imaging Science I (2/0)	2
RAD 127	Radiographic Procedures I (3/3/210)	6

SECOND SEMESTER (Spring)

RAD 120	Principles of Imaging Science II (2/2)	3
RAD 128	Radiographic Procedures II (2/3/225)	6

SUMMER SESSION

RAD 117	Radiation Protection and Biology (2/0)	2
RAD 207	Clinical Experience (0/0/225)	2

THIRD SEMESTER (Fall)

RAD 217	Advanced Imaging Modalities (3/0)	3
RAD 228	Radiographic Procedures III (2/3/340)	7

FOURTH SEMESTER (Spring)		
RAD 224	Introduction to Pathology (2/0)	2
RAD 232	Imaging Equipment and Radiography Seminar (3/2)	4
RAD 240	Advanced Clinical Experience I (0/0/340)	3
SUMMER SESSION		
RAD 242	Advanced Clinical Experience II (0/0/225)	2
		70

NOTE: RAD 127, 128, and 228 require 30 minutes each week for competency testing in the laboratory.

NOTE: Students must earn a minimum grade of C+ in BIO 103, BIO 104, MAT 125, PHY 109, and all RAD courses. A minimum grade of C is required in all other general education courses.

2021-2022 Academic Year

Respiratory Care
Associate in Applied Science Degree (A.A.S.)
from Brookdale Community College

Health Professions Division
609.570.3383 admiss@mccc.edu

The **Respiratory Care** program is offered in cooperation with Brookdale Community College. Students can complete their first two semesters at Mercer and their final four at Brookdale. Respiratory Care courses at Brookdale are only offered once a year in the four-semester course sequence. For more information on the arrangement, including admissions, coursework, and testing requirements, contact the Respiratory Care program coordinator at Mercer immediately to review conditions.

This program prepares students for entry-level positions in respiratory care. Students work with patients in the treatment, management, and control of problems and abnormalities associated with the cardiopulmonary system.

Graduates work closely with patients, doctors, and nurses to provide diagnostic testing, therapeutics, education, rehabilitation, monitoring, life support, and other specialized methods of treatment. Clinical learning experiences are required of all students.

Upon completion of the program, students are eligible to sit for the National Board of Respiratory Care (NBRC) Examination. After successful completion of this examination and application to the Respiratory Care Board, the graduate is also eligible for state licensure as a Certified Respiratory Therapist. Once licensed, graduates are eligible to take the Advanced Practitioner Examinations to become a Registered Respiratory Therapist (RRT).

This program is accredited by the Commission on Accreditation for Allied Health Education Programs (CAAHEP) in cooperation with the Committee on Accreditation for Respiratory Care (CoArc), 1701 West Euless Blvd., Suite 300, Euless, TX 76040, (817) 283-2835.

PROGRAM OUTCOMES

- Assess, analyze, implement, and evaluate respiratory care;
- Perform respiratory quality control activities;
- Apply basic principles of management in the care of groups of patients;
- Exhibit therapeutic communication skills;
- Incorporate ethical/legal considerations into the respiratory action plan;
- Practice as a member of a diverse interdisciplinary healthcare team;
- Continue personal and professional growth;
- Incorporate principles from the social sciences, biologic sciences, and humanities into their practice;
- Practice within the limits and scope of a licensed respiratory therapist.

DEGREE CURRICULUM
2021-2022 Academic Year
RESP.THPY.AAS
CIP 510908

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Mercer County Community College		
Code	**Course (lecture/lab hours)**	**Credits**
FIRST SEMESTER		
BIO 103	Anatomy and Physiology I (3/3)	4
CSH 100	College Success for Health Professions (1/1)	2
	• Recommended, not required.	
ENG 101	English Composition I (3/0)	3
MAT 125	Elementary Statistics I (3/0)	3
	• Recommended, not required.	
PSY 101	Introduction to Psychology (3/0)	3
SECOND SEMESTER		
BIO 104	Anatomy and Physiology II (3/3)	4
HPE 113	Medical Terminology (3/0)	3
— —	General Education elective	3
	• Recommended, not required.	

		General Education elective		3

- Recommended, not required.

		Credits Subtotal:	**28**

NOTE: Students must register for MCCC courses in consultation with Respiratory Care program coordinator and earn a minimum grade of C in all. Consult program coordinator immediately to discuss application requirements; assume these need to be completed during the Fall semester. Brookdale reserves the right to admit or reject a student, even if minimum application requirements are met.

Brookdale Community College		
Code	**Course**	**Credits**
THIRD SEMESTER		
BIOL 213	Microbiology	4

- May be taken earlier. Consult program coordinator for details.

RESP 161	Cardiopulmonary Anatomy and Physiology	3
RESP 162	Fundamental Skills in Respiratory Care	7
FOURTH SEMESTER		
RESP 163	Cardiopulmonary Pathophysiology	4
RESP 164	Patient Assessment and Diagnosis	6
RESP 165	Advanced Life Support and Emergency Care	2
FIFTH SEMESTER		
RESP 261	Neonatal & Pediatric Respiratory Care	2
RESP 262	Adult Critical Care	7
SPCH 115	Public Speaking	3

- May be taken earlier. Consult program coordinator for details.

SIXTH SEMESTER

RESP 263	Subacute Respiratory Care	2
RESP 264	Respiratory Care Practice	7
RESP 265	Issues in Respiratory Care	2
— —	Humanities general education elective	3

- May be taken earlier. Consult program coordinator for details.

Credits Subtotal:	**52**

NOTE: Respiratory (RESP) courses are offered once a year during the designated semesters; must be taken semester by semester in the given order. Consult Brookdale Respiratory Care program director for details and to schedule an opportunity to shadow a respiratory care therapist.

Security Systems Technology
Associate in Applied Science Degree (A.A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Security Systems Technology** program was developed in cooperation with the Security Industry Association (SIA). The degree prepares students for jobs that support the selling, installation and management, and technical support of physical security systems technologies in an IP-based networked environment.

PROGRAM OUTCOMES

- Understand, configure, and install physical security hardware and software, cameras and optics, access control systems, video management systems (VMS), as well as fire and burglary systems, and perform control station monitoring;
- Understand, describe, and implement physical security practices and procedures;
- Understand, describe, and implement computer network protocols and standards;
- Sit for the Cisco Certified Network Associate (CCNA) and CompTIA Security+ exams;
- Use printed and online technical documentation;
- Work effectively as individuals and in workgroups to install and implement physical security systems technologies;
- Demonstrate written and oral communication skills.

Students excelling in the program may be eligible to participate in internship opportunities which periodically become available in the physical security product manufacturers, system distributors, and systems integrators sectors. A capstone experience during the last semester allows students to participate in the design and implementation of a real-world security solution.

Admission to the program requires a high school diploma or its equivalent, one year of high school algebra, and competency in English composition, reading, and mathematics as determined by placement testing. Students who are required to complete foundations courses should plan their curriculum with a faculty advisor.

Program applicants must demonstrate an understanding of how to configure, install, diagnose, and troubleshoot microcomputer hardware components and operating systems software, or should enroll in NET 102 (Introduction to PC Hardware and Software) during their first semester.

DEGREE CURRICULUM

2021-2022 Academic Year
SECURITY.SYS.AAS
CIP 470110

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
COS 101	Introduction to Computer Science (3/2)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
EET 130	Fundamentals of Electronics (2/2)	3	
ENG 101	English Composition I (3/0)	3	
NET 103	IT Essentials (2/3)	3	
NET 104	Fundamentals of Computer Networks (2/2)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

EET 141	Electrical Wiring and Cabling (2/2)	3
ENG 112	English Composition II with Speech (3/0)	3
MAT 140	Applied College Algebra (3/1)	4

- Students intending to transfer to a baccalaureate program should take MAT 146 or 151.

NET 130	Routing and Switching Essentials (2/2)	3
SST 200	Physical Security Product Technologies (2/2)	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the Career Services office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

EET 145	Fiber Optics (3/2)	3
NET 230	Scaling Networks (2/2)	3
NET 239	Connecting Networks (2/2)	3
SST 210	Security Project Management (2/2)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting

involved in activities and clubs.

✔ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✔ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

BUS 230	Global Environment of Business (3/0)	3
NET 240	Network Security (2/2)	3
SST 220	Systems Integration: A Business Blueprint (2/2)	3
SST 230	Security Sales: The Consultative Approach (2/2)	3
— —	Social Science or Humanities general education elective	3

✔ Get ready to start your career! Begin the job application process.

✔ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

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Small Business Management
Certificate of Proficiency

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Small Business Management** certificate program prepares students to operate or assist in the operation of a successful small business.

At any given time in this country, 7000 to 10,000 people are considering starting a new business. In the last decade, small businesses have outstripped large companies as incubators of new jobs. The National Federation of Independent Businesses states that two of every three new jobs in the last 10 years have been at companies with fewer than 100 employees.

The certificate program informs students of the inherent pitfalls and management skill deficiencies which result in the high failure rate experienced by many small businesses.

PROGRAM OUTCOMES

- Analyze accounting reports to determine profitability, solvency, and liquidity of a business;
- Implement effective methods to attract and retain customers in a small business setting;
- Use terminology common to the business environment for effective communication;
- Apply supervision principles in performing management duties;
- Analyze/resolve problems common to small businesses.

Most credits earned in acquiring the Small Business Management Certificate can be applied toward the Business Studies degree program.

Admission to the program requires a high school diploma or its equivalent. A strong desire to work and succeed in a small business environment is vital.

SEE ALSO:
Business Administration degree program
Business Studies degree program

CERTIFICATE CURRICULUM

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
ACC 106	Office Accounting I (3/0)	3
BUS 107	Business Law I (3/0)	3
BUS 202	Customer Orientation (3/0)	3
BUS 210	Principles of Management (3/0)	3
BUS 239	Entrepreneurship (3/0)	3
BUS 296	International Business Practice Firm (1/6)	3
ECO 103	Basic Economics (3/0)	3
ENG 101	English Composition I (3/0)	3
IST 101	Computer Concepts with Applications (2/2)	3
MAT 125	Elementary Statistics I (3/0)	3
MKT 101	Principles of Marketing (3/0)	3

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Sustainability

Associate in Science Degree (A.S.)

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

An increased global focus on green initiatives, alternative energy, and conservation practices has prompted a growing demand for graduates with specialized training in sustainability. The **Sustainability** A.S. degree program exposes students to the various components of sustainability, including areas such as the natural sciences, ethics, and economics as a foundation of sustainability education.

Upon completion of the program, students will be able to transfer to a university and pursue a bachelor's degree in their chosen area of specialization. Currently in New Jersey, Kean University, Stockton College, Montclair State University, and Drew University all maintain bachelor's degree programs in sustainability. Additionally, Rider University offers a minor in sustainability and Ramapo College and Montclair State University have a master's degree program.

Admission to the program requires a high school diploma or its equivalent.

PROGRAM OUTCOMES

- Demonstrate an understanding of the fundamental concept of sustainability;
- View the world and all of its resources with a greater understanding, insight, and appreciation;
- Understand key environmental issues as they relate locally, nationally and globally;
- Demonstrate the ability to apply the scientific method of inquiry to gather and use information for the purpose of critical thinking, information analysis and problem solving;
- Recognize that knowledge of history, literature, geography, economics and ethics all play an important role in sustainability;
- Transfer and successfully pursue a baccalaureate degree in sustainability.

DEGREE CURRICULUM
2021-2022 Academic Year
HORT.SUST.AS
CIP 240101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
BIO 101	General Biology I (3/3)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ENG 101	English Composition I (3/0)	3	
SUS 101	Introduction to Sustainability (3/0)	3	
— —	Humanities general education elective	3	
	• Select from PHI 102, 112, 113, 204, 205; SPA 101.		✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
— —	Social Science general education elective	3	
	• Select from ECO 111; GEO 101; POL 101, 102; PSY 101; SOC 101.		✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

BIO 102	General Biology II (3/3)	4
CMN 111	Speech: Human Communication (3/0)	
	OR	3
CMN 112	Public Speaking (3/0)	
ENG 102	English Composition II (3/0)	3
MAT 151	Calculus I for the Mathematical and Physical Sciences (4/0)	4

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

CHE 101	General Chemistry I (3/3)	4
MAT 201	Probability and Statistics for Science and Engineering (4/0)	4
PHY 101	College Physics I (3/3)	
	OR	4

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

PHY 115	University Physics I (3/3)	
— —	Technical elective	4

- Select from BIO 204; OHT 108; PHY 102, 215.

FOURTH SEMESTER

CHE 102	General Chemistry II (3/3)	4
— —	Technical elective	4

- Select from BIO 204; OHT 108; PHY 102, 215.

— —	General Education elective	3

- Select from ECO 111; GEO 101; PHI 102, 112, 113, 204, 205; POL 101, 102; PSY 101; SOC 101; SPA 101.

— —	General Education elective	3

- Select from ECO 111; GEO 101; PHI 102, 112, 113, 204, 205; POL 101, 102; PSY 101; SOC 101; SPA 101.

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NOTE: Electives should be selected in consultation with an academic advisor in order to ensure maximum transfer of credits.

Technical Studies

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

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

Over the past decade, certified apprenticeship programs in the building and construction trades have become sophisticated operations that enable employees to enter a career or move up a career ladder after participating in a formalized training process.

The A.A.S. degree in **Technical Studies** provides a means for students to earn an applied science degree partly based on credits received through technical training.

The opportunity to earn college credit based on an apprenticeship in the construction and building trades is provided in cooperation with NJ PLACE and the United States Department of Labor. For information about how apprenticeship credits may be applied to an A.A.S. degree, visit www.njplace.org.

PROGRAM OUTCOMES

- Compete effectively in a technology-based global economy;
- Demonstrate the necessary skills to be more productive in their chosen profession and career;
- Demonstrate competence in a broad array of intellectual and communications skills with information and habits of mind that enrich their lives and enable them to participate more fully in a democratic society.

DEGREE CURRICULUM

2021-2022 Academic Year
TECH.STUD.AAS
CIP 309999

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits
CSW 100	College Success and Personal Wellness (2/0) *Some exemptions apply. Consult academic advisor for details.*	2
ENG 101	English Composition I (3/0)	3
ENG 112	English Composition II with Speech (3/0)	
	OR	3
ENG 102	English Composition II (3/0)	
IST 101	Computer Concepts with Applications (2/2)	
	OR	3
IST 102	Computer Concepts with Programming (2/2)	
MAT —	Mathematics elective	3
— —	Humanities general education elective	3
— —	Science OR Technology general education elective	3
— —	Social Science general education elective	3
— —	Social Science or Humanities general education elective	3
	Credits Subtotal:	26

Students meet with an advisor to select an area of concentration from among all of MCCC's technically-oriented A.A.S. degree programs. A faculty advisor for the selected concentration will develop a plan of study with each student.

- 25 credits must be earned as block credits in Technical Studies for certified apprenticeship training programs in the building and construction trades.
- 9 additional credits selected in technical or career areas.

	Credits Subtotal:	34

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Television

Associate in Applied Science Degree in Radio/TV (A.A.S.)

The **Television** option of the Radio/TV program is designed to empower students with the knowledge and skills to seek professional careers in all phases of the dynamic worlds of film and television, broadcast journalism, and video production; and to prepare graduates for enrollment into four-year institutions.

In order to enjoy productive careers and compete successfully, graduates must meet the challenge of technological change. Therefore, Television option A.A.S. degree candidates benefit from hands-on real-world training utilizing cutting-edge technology preparing them for employment as directors, producers, editors, camera operators, compositors, audio engineers, writers, and other entry-level positions within the TV and video production industries.

Television majors also have the opportunity to create television programming to be cablecast throughout Mercer County on MCTV, channel 80/26/20. The program of study culminates with students entering their own short features for the college's annual video recognition ceremony, The Bernie Awards.

All production classes involve state-of-the-art TV studio and control room equipment, and include practical experience with studio and portable cameras, video editing, graphics, special effects, producing, writing, and directing. Students should be prepared for a course of study emphasizing and developing communication skills in addition to practical and theoretical television instruction.

Many alumni of the Television option are employed by facilities in Philadelphia, New Jersey and New York, assuming a wide variety of jobs at all levels in the television industry. Many are successful producers in documentary, educational, industrial, and other video work. In addition, graduates have transferred to colleges and universities in New Jersey and other states including Rutgers University, The College of New Jersey, Rider University, Rowan University, William Paterson State University, Syracuse University, Ithaca College, Emerson College, Temple University, and New York University.

Admission to the Television option requires visual and aural acuity and a high school diploma or its equivalent.

PROGRAM OUTCOMES

- Produce cable television shows;
- Achieve entry-level professional competence for a position in commercial, public, industrial, instructional, and cable television studios and facilities;
- Write, produce, direct, and edit a variety of hi-definition video productions;
- Write various scripts, including commercials, news, and short film;
- Operate ENG (electronic news gathering) equipment;
- Produce a short film or documentary;
- Work on a professional project;
- Use cutting-edge non-linear video editing equipment;
- Build a strong, competitive portfolio;
- Operate a broadcast TV switcher and audio console.

DEGREE CURRICULUM
2021-2022 Academic Year
TV.AAS
CIP 100202

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ENG 101	English Composition I (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
CMN 101	Mass Media (3/0)	3	
CMN 111	Speech: Human Communication (3/0)		
	OR	3	
CMN 112	Public Speaking (3/0)		✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
CMN 141	Introduction to Television Production (2/2)	3	
DMA 144	Internet Tools and Techniques (1/4)	3	

SECOND SEMESTER

[ENG 102](#)	English Composition II (3/0)	3
[CMN 142](#)	Introduction to Field Production (2/2)	3
[CMN 147](#)	Introduction to Story (2/2)	3
[CMN 153](#)	Digital Audio Production I (2/2)	3
[DMA 210](#)	Motion Graphics (1/4)	3

✓ Transitioning to college can be challenging. Meet with your [Success Coach](#) for guidance and support.

✓ Apply for [financial aid](#) by May 1.

✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.

✓ Be sure to visit the [Career Services](#) office to explore jobs, internships, and career information and get help with your resume and other career tools.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

THIRD SEMESTER

[CMN 131](#)	Journalism I (3/0)	3
[CMN 146](#)	Social Media Technologies (2/2)	3
[CMN 241](#)	Applied Field Production (2/2)	3
[CMN 243](#)	Cinematography (2/2)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.

MAT 125	Elementary Statistics I (3/0)	3	

- MAT 120 is an acceptable alternative.

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✓ Work with Career Services to formulate plans for after you've earned this degree.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

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FOURTH SEMESTER

CMN 242	Advanced Film Production (2/2)	3	
CMN 275	TV Technology and Culture (3/0)	3	
CMN 290	Internship: Communications		
	OR	3	
CMN 285	Special Studies in Television Production		
— —	Social Science general education elective	3	
— —	General Education elective Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.	3	

✓ Get ready to start your career! Begin the job application process.

✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.

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NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits. Students must earn a minimum grade of C in all CMN courses to graduate.

Theatre

Associate in Arts Degree in Liberal Arts and Sciences (A.A.)
Associate in Fine Arts Degree in Performing Arts (A.F.A.)

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Theatre** program combines intensive classroom study and performance to challenge the serious student who aspires to a career in the entertainment industry. The program is dedicated to developing the total actor who can cope with the demands of the contemporary stage and work with a range of dramatic materials – from classical to modern, musicals to the avant-garde – that reflect current productions in the theatre centers of the United States.

The program offers two degree options, A.A. or A.F.A., both of which combine conservatory training in the performing arts with academic education in the liberal arts. The A.A. allows students to transfer as juniors into bachelor of arts programs in theatre. The A.F.A. includes additional training in performing arts and prepares students for work as well as further study in the field.

PROGRAM OUTCOMES

- Conduct research in preparation for performing a role;
- Independently interpret dramatic literature for performance;
- Use a variety of acting, movement, and vocal techniques to craft a performance;
- Work collaboratively with artistic and production staff;
- Create successful auditions by preparing materials and exhibiting professional conduct.

Graduates have transferred to four-year institutions including Temple University, Rider University, The College of New Jersey, Pace University, SUNY Purchase, Penn State, and Rutgers University, among others. Theatre program students have also gone on to perform at The New York International Fringe Festival, George Street Playhouse, Luna Stage, Passage Theatre, and chashama.

The program may be pursued part- or full-time. Theatre courses are offered during the afternoon and early evening, requiring some day classes in order to complete the program. Admission requires a high school diploma or its equivalent.

SEE ALSO:
Communication: Speech and Theatre degree program

A.A. DEGREE CURRICULUM

2021-2022 Academic Year

THTR.AA
CIP 500101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
CMN 112	Public Speaking (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ENG 101	English Composition I (3/0)	3	
MAT 125	Elementary Statistics I (3/0)	3	
THR 101	Introduction to Theatre (3/0)	3	
THR 104	Fundamentals of Acting (2/2)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

ENG 102	English Composition II (3/0)	3
THR 105	Acting II: Principles of Characterization (2/2)	3
THR 210	Theatre History: Classical to Elizabethan (3/0)	3
HIS —	Historical Perspective general education elective HIS 112 and 113 recommended.	3
MAT —	Mathematics elective Select MAT 120 or 126 in consultation with an academic advisor.	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

DAN 101	Introduction to Dance and Culture (3/0)	3
THR 207	Scene Study I (3/0)	3
THR 212	Central Voices in World Drama (3/0)	3
VPA 228	Artistic Collaboration Workshop (2/2)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

HIS —	Historical Perspective general education elective HIS 112 and 113 recommended.	3

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

THR 217	Theatre Production (1/5)	3
— —	Lab Science general education elective Select from among the course categories of BIO (excluding BIO 114 and 115), CHE, or PHY.	3
— —	Social Science general education elective ANT 101 and PSY 101 recommended.	3
— —	Social Science general education elective ANT 101 and PSY 101 recommended.	3
— —	Technology general education elective DMA 144 recommended.	3

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

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NOTE: Students who forego the courses recommended above should select all other electives in consultation with an academic advisor in order to assure maximum transfer of credits.

A.F.A. DEGREE CURRICULUM

2021-2022 Academic Year
THTR.AFA
CIP 500101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ENG 101	English Composition I (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
MAT 125	Elementary Statistics I (3/0)	3	
THR 101	Introduction to Theatre (3/0)	3	
THR 104	Fundamentals of Acting (2/2)	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.
			✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

DAN 103	Modern Dance I (1/2)	2
ENG 102	English Composition II (3/0)	3
THR 102	Stagecraft (2/2)	3
THR 105	Acting II: Principles of Characterization (2/2)	3
THR 210	Theatre History: Classical to Elizabethan (3/0)	3
HIS —	Historical Perspective general education elective HIS 112 recommended.	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

CMN 112	Public Speaking (3/0)	3
DAN 101	Introduction to Dance and Culture (3/0)	3
DAN 102	Ballet I (1/2)	2
THR 207	Scene Study I (3/0)	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

THR 212	Central Voices in World Drama (3/0)	3
VPA 228	Artistic Collaboration Workshop (2/2)	3

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

DAN 105	Jazz Dance I (1/2)	2
DAN 116	Studio Dance Technique I (0/6)	3
THR 217	Theatre Production (1/5)	3
— —	Social Science general education elective ANT 101 or PSY 101 recommended.	3
— —	Technology general education elective DMA 144 recommended.	3

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

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NOTE: Students who forego the courses recommended above should select all other electives in consultation with an academic advisor in order to assure maximum transfer of credits.

Visual Arts

Associate in Fine Arts Degree (A.F.A.)

The Associate in Fine Arts degree in **Visual Arts** prepares students to transfer into the third year of a baccalaureate degree program or to work in their field of concentration. Students gain a broad knowledge through the core curriculum and complete their degree requirements through extensive experience in one of four concentrations, or through a tailored set of electives from these four areas.

PROGRAM OUTCOMES

- Identify and explain the significant events in the history of art as well as contemporary practices;
- Discuss and/or integrate different techniques and approaches to art making;
- Analyze and evaluate artwork verbally and in writing;
- Create a portfolio for education transfer, employment, or artistic venues.

Students learn in modern, well-equipped facilities. Most courses are offered through day or evening classes, and an Associate in Fine Arts degree may be pursued either full- or part-time.

Admission to the Visual Arts program requires a high school diploma or its equivalent.

Through the **Art History** concentration (VIS.HIS.AFA), students gain an understanding of the arts of both western and non-western societies, including so-called primitive cultures. Students study the history of painting, sculpture, architecture, printmaking, photography, and decorative arts not only in relation to aesthetics, but also in relation to and as an indicator of world history.

The **Ceramics/Sculpture** concentration (VIS.CER. AFA) provides students with both aesthetic understanding and broad-based knowledge of three-dimensional arts: design, ceramics, and sculpture. Students develop their creativity in and knowledge of a variety of three-dimensional media, technical processes, and traditions.

The **Fine Arts** concentration (VIS.FINE.AFA), with an emphasis on drawing, painting, and printmaking courses, develops students' technical skills and personal expression, and provides a deeper knowledge and appreciation of art history.

For **Photography** concentration (PHOTO.AFA) requirements, refer to the Photography program.

DEGREE CURRICULUM

2021-2022 Academic Year

VIS.HIS.AFA
VIS.CER.AFA
VIS.FINE.AFA
CIP 500101

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
ART 102	Basic Drawing (1/4)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree.
ART 105	Two-Dimensional Design (1/4)	3	
ART 106	Three-Dimensional Design (1/4)	3	
ENG 101	English Composition I (3/0)	3	
MAT —	Mathematics elective	3	✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning.

- MAT 120 or 125 recommended. Select in consultation with an academic advisor.

✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.

SECOND SEMESTER

ART 122	History of Art II (3/0)	3
ENG 102	English Composition II (3/0)	3
— —	**Concentration elective**	3
— —	**Concentration elective**	3
— —	**Concentration elective**	3

✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support.

✓ Apply for financial aid by May 1.

✓ Contact professors with questions and use their office hours to develop a connection.

✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships.

✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options.

✓ Plan for how you will complete transfer applications while finishing your classes.

THIRD SEMESTER

ART 125	Topics in Contemporary Art (3/0)	3
— —	**Concentration elective**	3
— —	**Concentration elective**	3
— —	**Concentration elective**	3
— —	**Concentration elective**	3

✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in activities and clubs.

✓ Manage your stress! Take advantage of the MCCC pool, Fitness Center, free yoga and Zumba. Reach out for counseling or other support if you need it. Your Success Coach can connect you with resources.

FOURTH SEMESTER

ART 121	History of Art I (3/0)	3
CMN 112	Public Speaking (3/0)	3
— —	**Concentration elective**	3
— —	**Concentration elective**	3
— —	**Concentration elective**	3
		60

✓ Apply for financial aid by May 1.

✓ Talk to your faculty advisor and the Transfer office for advice on how to successfully transition to a new school.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

NOTE: Electives should be selected in consultation with an academic advisor in order to ensure maximum transfer of credits.

	Art History CONCENTRATION electives	
ARC 124	History and Theory of Modern Architecture (3/0)	3
HIS 101	History of Western Civilization to 1648 (3/0)	3
PHO 110	History of Photography (3/0)	3
ART 124	History of Non-Western Art (3/0)	3
HIS 102	History of Western Civilization Since 1648 (3/0)	3
— —	World Language elective	3
— —	Social Science general education elective	3
ART 126	African American Art History (3/0)	3
— —	World Language elective	3
— —	Science or Technology general education elective	3

Code	Course (lecture/lab hours)	Credits
	Ceramics/Sculpture CONCENTRATION electives	
ART 104	Life Drawing (1/4)	3
ART 130	Painting I (1/4)	3
ART 145	Beginning Ceramics: Handbuilding (1/4)	3
ART 141	Sculpture I (1/4)	3

ART 146	Beginning Ceramics: Wheel-Throwing (1/4)	3
DMA 144	Internet Tools and Techniques (1/4)	3
DMA 250	Digital Portfolio Seminar (1/4)	3
ART 241	Sculpture II (1/4)	3
— —	Visual Arts elective Select in consultation with an academic advisor.	3
— —	Visual Arts elective Select in consultation with an academic advisor.	3

Code	Course (lecture/lab hours)	Credits
Fine Arts CONCENTRATION electives		
ART 104	Life Drawing (1/4)	3
ART 130	Painting I (1/4)	3
ART 141	Sculpture I (1/4)	3
ART 150	Printmaking I (1/4)	3
ART 230	Painting II (1/4)	3
DMA 144	Internet Tools and Techniques (1/4)	3
DMA 250	Digital Portfolio Seminar (1/4)	3
ART 145	Beginning Ceramics: Handbuilding (1/4)	
	OR	3
ART 146	Beginning Ceramics: Wheel-Throwing (1/4)	
ART 241	Sculpture II (1/4)	3
— —	Visual Arts elective Select in consultation with an academic advisor.	3

Web Design

Certificate of Proficiency

Liberal Arts Division
609.570.3378 admiss@mccc.edu

The **Web Design** Certificate prepares students for positions as web designers, web animators, and interactive art directors – positions most often found in interactive multimedia studios, advertising agencies, and design firms. It also prepares students for advanced study in interactive media design.

PROGRAM OUTCOMES

- Design an architectural plan for a website;
- Use professional software applications to create a website with advanced design and content;
- Use professional software to create interactive games and educational modules;
- Use professional software to edit digital video and audio;
- Use design principles to create web pages that communicate effectively;
- Use the principles of user interaction and usability to create user-friendly websites;
- Create websites that are accessible to and serve a variety of different user needs and technologies;
- Successfully develop and present ideas in both written and oral formats;
- Create a professional portfolio to serve in the pursuit of further education or employment.

SEE ALSO:

Digital Media Arts degree program
Mobile and Web Computing certificate program
Web Development certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year

WEB.DSG.CERT
CIP 500402

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
DMA 110	Digital Imaging I (1/4)	3
DMA 115	Vector Drawing (1/4)	3
DMA 135	Digital Narrative (1/4)	3
DMA 144	Internet Tools and Techniques (1/4)	3
DMA 145	Web Design I (1/4)	3
ENG 101	English Composition I (3/0)	3
DMA 210	Motion Graphics (1/4)	
	OR	3
DMA 290	Digital Media Arts Internship	
DMA 245	Web Design II (1/4)	3
DMA 250	Digital Portfolio Seminar (1/4)	3
— —	Web Design elective	3

- Select from ADV 101, 110; DMA 275.

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Web Development

Certificate of Achievement

B-STEM Division
Business, Science, Technology, Engineering and Math
609.570.3482 admiss@mccc.edu

The **Web Development** micro-credential program is designed for those who wish to develop entry-level web development skills in a short time. Students learn how to design and build websites and applications, involving both front-end and back-end development. The acquired skills enable successful graduates of the program to become a web application developer.

PROGRAM OUTCOMES

- Design and create web pages;
- Build web applications with database integration.

Successful completion of credits from this Certificate of Achievement can be applied toward the Mobile and Web Computing certificate. All courses in this program completed with a grade of C or better may be applied toward the Computer Networking and Technology, Computer Information Systems, or Computer Science degree programs.

Admission to the program requires computer literacy, one year of high school algebra, readiness for college-level English and Math, and approval from the program coordinator. Prior programming experience is helpful but not necessary. Students may receive credit for previous training in a skills area by applying for credit by examination, credit by experience, and/or transfer credit as evaluated and approved by the program coordinator.

Some courses may be offered only during the evening and some only in alternate semesters. It is essential that students plan ahead in consultation with the program coordinator.

SEE ALSO:
Computer Information Systems degree program
Computer Networking and Technology degree program
Computer Science degree program
Computer Science certificate program
Computer Support Specialist certificate program
Cybersecurity degree program
Database Administration certificate program
Database Concepts and Skills Associate certificate program
IT System Analyst Associate certificate program
Mobile and Web Computing certificate program
Oracle SQL Programming and Database Design Specialist certificate program

CERTIFICATE CURRICULUM

2021-2022 Academic Year
WEB.DEV.CRT
CIP 521201

Credit-bearing certificate programs can serve as gateways to earning an associate degree. Students are encouraged to consult the program coordinator, an academic advisor or Success Coach to explore such opportunities.

Code	Course (lecture/lab hours)	Credits
IST 108	Introduction to Programming with Mobile Application Development (3/2)	4
IST 144	Website Development (3/2)	4
IST 244	Web Application Development (3/2)	4
		12