

PROGRAM ENTRANCE REQUIREMENTS

Admission to MCC is open to students who have earned a local or Regents high school or high school equivalency diploma (GED), or who have not yet earned a diploma but whose scheduled date of high school graduation has passed and have minimum competency in English and math. New students may be required to take a placement exam to test proficiency in mathematics, English and college reading.

While a high school Regents-level program is generally accepted preparation for most MCC programs, all students are invited to seek admission. The chart below lists specific courses that are required or strongly recommended to ensure success in the individual program of choice. Required high school courses must be completed with a minimum grade of C.

Students interested in pursuing programs for which they are not currently prepared should consult the Admissions Office for extended options that will provide the necessary preparation.

Career and Transfer Programs, Certificates and Advisement Sequences

Programs	Career Choices	Required Courses	Program Appeals To
BUSINESS PROGRAMS			
Accounting (A.A.S.)	A degree in Accounting can lead to careers in bookkeeping, tax preparation, auditing, and more.	Elementary Algebra with Geometry (or Math 098 or Math 130 at MCC)	Students interested in entry-level accounting positions who do not intend to transfer.
Business Administration (A.S.)	Transfer to bachelor's degree programs in business administration or related fields for entry-level executive training programs.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	Appeals to students planning to transfer to a four-year college or university with a major in accounting, finance, management, marketing, human resources, economics, entrepreneurship, E-Business, small business management, or other business-related fields.
Entrepreneurial & Applied Business Studies (A.A.S.)	This program will develop the skills and knowledge for students planning to start their own business ventures.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	Appeals to students who want to start their own business, work in a family business, or expand their present business.
International Business (A.S.)	Transfer to bachelor's degree programs leading to careers in international trade and commerce, law, banking, and marketing in both private and public sectors, and diplomacy.	Intermediate Algebra with Trigonometry (Math B exam in high school or Math 104 at MCC)	Appeals to students with prior coursework in foreign languages, excellent technical skills and an interest in world cultures.
Office Technology (Legal Office Administrative Assistant) (A.A.S.)	Secretary; technical secretary; secretary for city, county, federal government offices.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students detail-oriented and interested in working in the legal secretarial field.
Office Technology (Office Administration) (A.S.)	Transfer to bachelor's degree programs in business education	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students interested in teaching in business-related areas in the high school.
Office Technology (Office Administrative Assistant) (A.A.S.)	Executive secretary; technical secretary; secretary for city, county, federal government offices.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students interested in management and office support services, and who want to become executive secretaries.
COMMUNICATION PROGRAMS			
Advertising: Commercial Art (A.S.)	Commercial Artist	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC) (Art Courses and a portfolio recommended)	Appeals to students who want to transfer to bachelor's degree programs in commercial art, commercial illustration and media arts to work for advertising agencies, publishers, printers, in-house agencies or freelance artists or designers.

Programs	Career Choices	Required Courses	Program Appeals To
Cinema and Screen Studies (A.S)	Prepares students for transfer into bachelor's degree programs in film or cinema studies, film production, media studies or journalism.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC) Placement into ENG 101 or ENG 200	Appeals to students interested in film management/marketing, film and television production, or film criticism.
Communication & Media Arts (A.S.)	Prepares students to transfer to bachelor's degree programs that lead to careers in broadcasting, journalism, advertising, public relations, corporate and technical communication.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students interested in their writing, speaking and presentation skills, and who plan to transfer to four-year colleges as communication majors.
Interior Design (A.A.S.)	Interior Design (A.A.S.)	Pre-Algebra (one-year high school math or placement into Level 3 Math at MCC)	Students who enjoy art and design, have a good sense of space and color, and like working with people. Interior designers combine practicality and aesthetics in the planning and furnishing of private homes, public buildings, and commercial establishments.
Public Relations (A.S.)	This program prepares you to transfer to a four-year college or university offering programs in public relations, communications and mass media. It includes a broad selection of liberal arts courses plus courses in communication theory, media writing and public relations.	Intermediate Algebra with Trigonometry (or MTH 104 at MCC)	The program appeals to students who want to better understand the role of public relations today in business, government, education, and nonprofit organizations and work museums, health-related organizations or schools; in government; or as account executives in businesses, corporations, public relations/advertising firms, or marketing firms.
Visual Communication Graphic Arts/ Printing (A.A.S.)	Graduates are employed in internal corporate communication departments and small printing firms.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students interested in creating graphics and advertising art, designing newsletters, producing graphic materials, and running printing presses.
Visual Communication Photo/ Television (A.A.S.)	Graduates may be employed as technicians at television stations and internal corporate communication departments.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC) (Photography recommended)	Appeals to students interested in video and TV production, filmmaking and still photography.

COMPUTER-RELATED PROGRAMS

Computer Information Systems (A.A.S.)	Programmer trainee, junior programmer, programmer, minicomputer programmer, PC programmer, maintenance programmer, computer operator, lead computer operator, minicomputer operator, help desk administrator, PC support specialist, office automation technician, LAN support technician.	Intermediate Algebra with Trigonometry (or Math 104 at MCC) (Typing or keyboarding recommended)	Appeals to students interested in writing computer code and using application software packages to meet the needs of computer information systems users.
Computer Information Systems (A.S.)	Transfer to bachelor's degree programs that lead to careers such as programmer trainee, junior programmer, minicomputer programmer, PC programmer, maintenance programmer, computer operator, lead computer operator, minicomputer operator, help desk administrator, PC support specialist, office automation technician, LAN support technician.	Intermediate Algebra with Trigonometry (or Math 104 at MCC) (Typing or keyboarding recommended)	Appeals to students planning to pursue a bachelor's degree and eventually seek careers as programmers, systems administrators, operators and technicians.

Programs	Career Choices	Required Courses	Program Appeals To
Computer Science (A.S.)	Transfer to bachelor's degree programs in computer science.	Pre-calculus (Pre-calculus in high school with an 85 or Math 175 at MCC) Physics recommended	Appeals to imaginative, versatile students with mathematics and communication skills who are looking to transfer to a baccalaureate degree program in Computer Science.
Computer Systems Technology (A.A.S.)	Computer applications technician, customer engineer, field-service engineer, computer maintenance technician. Transfer to 4-year program in computer technology or computer engineering.	Intermediate Algebra with Trigonometry (or Math 104 at MCC) (Typing or keyboarding recommended)	Appeals to students interested in studying the hardware and software components of computer systems, and those looking for training in electronic instrumentation, troubleshooting and debugging techniques, computer and network fault diagnosis, computer peripherals, and assembly language programming.
Information Technology (A.S.)	Transfer to a bachelor's degree program in Information Technology.	Intermediate Algebra with Trigonometry (or Math 104 at MCC) (Typing or keyboarding recommended)	Appeals to students interested in studying networking, programming, database and Web design.

ENGINEERING AND THE TECHNOLOGIES PROGRAMS

Air Conditioning Technology: Heating and Ventilating (A.A.S.)	Field service technician, service representative, system detailer/designer, sales representative.	Elementary Algebra with Geometry (or Math 098 at MCC)	Appeals to students planning to become service technicians, service representatives, system detailers/designers or sales representatives.
Apprentice Technology - General Automotive, General Motors, Toyota/Lexus/Scion (A.A.S.)	Automotive technician.	Elementary Algebra with Geometry (or Math 098 at MCC). Valid driver's license	Appeals to students who enjoy working on cars and plan to become automotive technicians.
Apprentice Training - Machine Trades (A.A.S.)	Machining operator, tooling and machining apprentice, machine set-up operator, and with more experience and time, CNC Programmer, mold maker or specialized machine builder.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students who like hands-on work, who have technical abilities and like solving problems.
Biotechnology (A.A.S.)	Technician in bioanalytical work in pharmaceutical companies, food research, biomaterials industries, universities, genetic engineering, and agricultural research and applications.	Intermediate Algebra with Trigonometry (or Math 104 at MCC). Biology, Chemistry	Appeals to students interested in studying the science (recombinant DNA technology, protein engineering, industrial microbiology) as well as the social and ethical issues of the field, and who want to become technicians in pharmaceutical companies, biomaterials industries, universities, genetic engineering companies, or food and agriculture research areas.
Construction Technology (A.A.S.)	Cost estimators, project management, planning and scheduling, quality control, and surveyor. This specialization combines core courses such as structural design, concrete design, and surveying, and expands on them to include their applications in the construction field.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	This program to appeals men and women who want to work in the building and construction industry as part of a team responsible for the coordination and implementation of a construction project.
Electrical Engineering Technology: Electronics (A.A.S.)	Engineering aide, design research and development aide, test and calibration technician, sales and service technician, working in computers, communications, industrial or general electronics applications. Possible transfer to bachelor's program in electrical engineering technology or electrical engineering.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	Appeals to students interested in designing, developing, testing and supervising the manufacture of electrical and electronic equipment.

Programs	Career Choices	Required Courses	Program Appeals To
Engineering Science (A.S.)	Transfer to bachelor's degree programs in aeronautical, chemical, civil, computer, industrial, materials, mechanical, optical and all other engineering options. 2+2 options are available.	Pre-calculus (Pre-calculus in high school with an 85 or Math 175 at MCC). 3 years of science, including Chemistry and Physics	Appeals to students planning to pursue a bachelor's degree in aeronautical, chemical, civil, computer, industrial, materials, mechanical, optical or other engineering fields.
Manufacturing Technology (A.A.S.)	Technician assisting a manufacturing, process, plant or facilities engineer, line supervisor, estimator.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	Appeals to students interested in using computers to develop and implement ideas in areas such as manufacturing processes, robotics and design of equipment and factories.
Mechanical Technology (A.A.S.)	Draftsman, engineering aide, physical tester, production assistant, salesperson for mechanical products, computer graphics operations.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	Appeals to students interested in drafting, design, and basic machine components, and are looking for careers as draftsmen, engineering assistants, technicians or technical salesmen.
Optical Systems Technology (A.A.S.)	Engineering aide, production engineer, quality control aide, research and development aide, standard laboratory technician, assistant supervisor in companies making optical-electro-mechanical, or photographic equipment.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	Appeals to students with strong mathematical skills who are interested in studying light and optical principles, and are looking for careers in high technology fields.
Precision Machining (A.A.S.)	Provides the skills for a career in the precision metal working industry. Graduates will be able to enter or advance in such fields as mold making, machine building, tool making, die making, CNC machining, and other manufacturing areas. This program does not include an apprenticeship.	Elementary Algebra with Geometry (or MTH 098 at MCC)	Appeals to students who wish to enter the precision metal working industry at a high level of competence.

HEALTH RELATED PROFESSIONS

Dental Hygiene** (A.A.S.) Admissions to this program is September only. Application deadline is January 31. ** Physical examination required	Dental hygienist in private dental offices, clinics, and community health agencies.	Elementary Algebra with Geometry (or Math 098 at MCC). Biology and Chemistry. Competitive Admission — Please contact the Admissions Office regarding current admission criteria and/or geographic limitations	Appeals to students who enjoy dealing with people, are interested in learning about prevention and treatment of oral diseases, nutrition, and systemic health, and who want to become Dental Hygienists in private dental offices, clinics, or community health agencies.
Health Information Technology (A.A.S.)	Managerial or technical functions in medical record departments of hospitals, clinics, nursing homes and other health care facilities. Additional opportunities in quality improvement programs, hospital associations, health information systems, consulting, medico-financial and medico-legal settings, and research.	Biology. Program applicants should be comfortable using personal computing and word processing programs.	Appeals to detail-oriented students interested in the administrative aspect of the health care field as well as organizing and evaluating patient records for completeness and accuracy.
Health Studies (A.S.)	School Health, Community Health, Environmental Health, Wellness Coordinator, Health Administration, Substance Abuse Counselor and Social Worker.	Intermediate Algebra with Trigonometry (or Math 104 at MCC). Biology, Chemistry recommended.	Appeals to students interested in transfer to bachelor's degree programs in Community Health Education, Environmental Health, Wellness and Health Promotion, Allied Health, School Health concentration, Health Administration, Counseling and Social Work.

Programs	Career Choices	Required Courses	Program Appeals To
<p>Massage Therapy** (A.A.S.)</p> <p>Admissions to this program is September only.</p> <p>** Physical examination required</p>	<p>Massage therapists are trained in the use of massage techniques and therapies and work in health-care settings, colleges and universities, spas and health clubs, private practice and for professional athletic teams.</p>	<p>Elementary Algebra with Geometry (or Math 098 at MCC). Biology, Chemistry</p>	<p>Appeals to people who have an outgoing personality, who are physically fit, have a natural sense of compassion and desire to heal, and feel at ease with physical contact.</p>
<p>Nursing** (A.A.S.)</p> <p>Fall applicants need to apply by January 31.</p> <p>Spring applicants need to apply by October 31.</p> <p>** Physical examination required</p>	<p>Registered nurse in public and private hospitals, clinics or health agencies.</p>	<p>Elementary Algebra with Geometry (or Math 098 at MCC). Biology, Chemistry.</p> <p>Competitive Admission — Please contact the Admissions Office regarding current admission criteria and/or geographic limitations</p>	<p>Appeals to students who want to work with people in the health care field, and who have strong science skills, good communication skills, an interest in technology, critical thinking skills, and compassion for humankind.</p>
<p>Radiologic Technology** (A.A.S.)</p> <p>Admissions to this program is September only.</p> <p>Application deadline is January 31.</p> <p>** Physical examination required</p>	<p>Radiographer in private and public hospitals, clinics, health agencies, and private physicians' offices.</p>	<p>Intermediate Algebra with Trigonometry (or Math 104 at MCC). Biology.</p> <p>Competitive Admission — Please contact the Admissions Office regarding current admission criteria and/or geographic limitations</p>	<p>Appeals to students who want to work in the healthcare field and are interested in using "diagnostic imaging" methods (such as ultrasound, magnetic resonance scans and x-rays) to produce images of the body's interior to diagnose and treat medical conditions.</p>

LIBERAL ARTS - NATURAL SCIENCE ADVISEMENT PROGRAMS AND SEQUENCES

Biology (Sequence)	Transfer to bachelor's degree programs and provides pre-professional preparation for careers in dentistry, medicine, veterinary medicine, research, para-medical specialties and environmental services.	Intermediate Algebra with Trigonometry (or Math 104 at MCC). Biology. Chemistry	Appeals to those interested in the scientific study of living things, from the smallest particles to larger, complex systems (such as the circulatory system or nervous system).
Chemistry (Sequence)	Transfer to bachelor's degree programs and pre-professional preparation for careers as professional chemists.	Intermediate Algebra with Trigonometry (or Math 104 at MCC). Chemistry	Appeals to analytical, disciplined students skilled in math and science, with a respect for accuracy and an ability to work independently.
Environmental Science (Sequence)	Transfer into environmental studies programs with a broad, interdisciplinary course of study, pre-professional preparation for careers in the broader areas of environmental planning, environmental impact, and resource science.	Intermediate Algebra with Trigonometry (or Math 104 at MCC). Biology. Chemistry	Appeals to students interested in broad, interdisciplinary course of study, those planning to transfer into environmental studies programs, and those eventually seeking careers in environmental planning, environmental impact, and resource science.
Geosciences (Sequence)	Transfer to bachelor's degree programs in geology and earth sciences leading to careers in teaching, hydrology, resource conservation, and petroleum and mining industries.	Pre-Calculus (Pre-calculus in high school with an 85 or Math 175 at MCC). Chemistry	Appeals to students who are interested in studying the Earth's surface and subsurface processes including preservation of unique landscapes, responsible use of natural resources, assessment of natural hazards and evaluation of current environmental issues.
Physics (Sequence)	Transfer to bachelor's degree programs in physics leading to careers as professional physicists in education, research, and industry.	Pre-Calculus (Pre-Calculus in high school with an 85 or Math 175 at MCC). Physics	Appeals to students interested in solving complex problems found in the natural world and looking to discover how science can be used for the betterment of humankind and the environment.

Programs	Career Choices	Required Courses	Program Appeals To
Pre-Chiropractic (Sequence)	Chiropractor. Designed for those who plan to transfer to the New York Chiropractic College.	Pre-Calculus (Pre-Calculus in high school with an 85 or Math 175 at MCC)	Students interested in holistic health, spinal manipulation, and patient care.
Pre-Forestry (Sequence)	Transfer to the SUNY College of Environmental Science & Forestry for careers in resource management, forest engineering, landscape architecture, paper science, etc.	Pre-Calculus (Pre-Calculus in high school with an 85 or Math 175 at MCC). Biology. Chemistry	Appeals to students who enjoy hands-on work and the outdoors, are physically hardy, and are interested in seeking a balance between conserving forested ecosystems and the need to use the forest resources for recreational or economic purposes.
Pre-Pharmacy (Sequence)	Transfer to three-year pharmacy programs.	Intermediate Algebra with Trigonometry (or Math 104 at MCC). Biology. Chemistry	Appeals to conscientious, detail-oriented students with excellent communication skills, an aptitude for science, and an inherent desire to help others.

LIBERAL ARTS & SCIENCES PROGRAMS AND ADVISEMENT SEQUENCES

Interested in a pre-professional, health or education-related bachelor's degree? If you do not find the field that interests you below, you may be able to use the Liberal Arts General Studies (A.S.) degree to get started.

If your field of interest is not listed below, the first step is to make an appointment with an Admissions Counselor at 585.292.2200 to discuss your educational goals. Then, contact the Career Center at 585.292.2248 to discuss course selections. The transfer guides currently available include Architecture, Chiropractic, Dentistry, Dietitian/Nutritionist, Law, Occupational Therapy, Pharmacy, Physical Therapy, Physician Assistant and Veterinarian. These can be found in the Career Center Office.

African-American Studies (Sequence)	Transfer to bachelor's degree programs in African-American studies, diversity focused curriculum programs and an ideal second degree for current and future organizational leaders.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students who are interested in a broad-based interdisciplinary understanding of the historical and contemporary injustices of racial oppression as well as those who desire to introduce the importance of diversity in our world.
Child Care Practitioner (Sequence)	Transfer to a bachelor's degree program in child development, teaching, or early childhood education. This program blends general education in the liberal arts and sciences with specialized childcare courses.	Pre-algebra (1 year high school math or placement in Level 3 Math at MCC)	Appeals to students who are interested in becoming a professional child care practitioner, child care center lead teacher or family child care practitioner.
Diversity and Community Studies (Pending NYSED registration)	Employment in governmental or non-governmental organizations, in multinational corporations, and in agencies of civil society.	Pre-Algebra (1 year high school math or placement into level 3 math at MCC)	Appeals to students interested in learning how groups negotiate power to achieve more equitable and harmonious social orders.
Education (A.A.)	Transfer to bachelor's degree programs in Early Childhood, Middle Childhood/Special Education and Adolescence Education.	Intermediate Algebra with Trigonometry or Math 104 (Level 6) for Early Childhood and Childhood majors. For adolescence majors, Pre-Algebra or TRS 094 at MCC (Level 3)	Students interested in transfer into an education program.
Fine Arts (A.S.)	Transfer to bachelor's degree programs in visual arts fields such as design, drawing, painting, sculpture and art history.	Pre-Algebra (1 year high school math or Placement into Level 3 Math at MCC) (Art courses recommended)	Appeals to students interested in visual art fields and those looking to transfer to bachelor's degree programs in design, drawing, painting, sculpture and art history.

Programs	Career Choices	Required Courses	Program Appeals To
General Studies (A.S.)	Transfer to bachelor's degree programs in most major professional fields (law, medicine, social work, public administration, scientific research, music, etc.).	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Prepares students for transfer to bachelor's degree programs in most major professional fields (such as law, medicine, social work, public administration, scientific research, and others).
History: American and Global (Sequence)	Transfer to bachelor's degree programs that lead to careers as lawyers, teachers, government and public administrators, journalists, archivists, curators and public historians.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	American Sequence: Appeals to students interested in studying American traditions, and the forces and personalities that have shaped the United States. Global Sequence: Appeals to students who are interested in exploring the inter-relationships of different cultures over time, and comparing value systems among those cultures.
Humanities and Social Sciences (A.A.)	Transfer to bachelor's degree programs in such areas as government, law, management, or teaching.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students planning to transfer to bachelor's degree programs in areas such as government, law, management or teaching. Specifically designed to prepare students for transfer within SUNY.
Individual Studies (A.S.) (Pending NYSED registration)	Students interested in transferring into a specific major after working one-on-one with an advisor.	Pre-Algebra (1 year high school mathematics or placement into level 3 Math at MCC)	Students interested in majors in which MCC does not have a degree but has the appropriate coursework.
Landscape Architecture (Sequence)	Transfer to the School of Landscape Architecture at the College of Environmental Science and Forestry at Syracuse. Students who complete this course of study and who have been accepted by ESF will transfer with full junior status.	Intermediate Algebra with Trigonometry (or Math 104 at MCC). Biology. (3-dimensional art courses recommended)	Appeals to students interested in applying their artistic talents to the design and creation of private and public spaces (residential areas, public parks, playgrounds, college campuses, shopping centers, golf courses, parkways and industrial parks).
Mathematics (A.S.) (Pending NYSED registration)	Transfer to bachelor's degree programs leading to careers as mathematics teachers, statisticians, computer scientists, and professional actuaries.	Pre-Caculus (Pre-Calculus in high school with an 85 or better or Math 175 at MCC). Biology - recommended. Chemistry - recommended.	Appeals to students who enjoy solving economic, scientific, engineering and business problems using mathematical knowledge and computational tools, and who are interested in creating new mathematical theories and techniques.
Nutrition (Sequence)	Transfer to bachelor's degree programs in Nutrition and/or Dietetics leading to a career as a Registered Dietitian.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	This program appeals to students who enjoy dealing with people, are interested in learning about food, culinary arts, nutrition, and health science, and who wish to pursue a career as a dietitian.
Performing Arts: Music (A.S.)	For students who plan to transfer and earn the baccalaureate degree with a major in music. It provides basic preparation for a career in music.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC). (Experience in vocal or instrumental performance and reading music recommended)	Appeals to students who plan to earn a bachelor's degree in music and want to focus on expanding and sharpening their vocal or instrumental musical skills and techniques.

Programs	Career Choices	Required Courses	Program Appeals To
Physical Education (A.S.)	Transfer to baccalaureate programs in physical education, physical studies, sports studies or related area. Careers in fitness, sport rehabilitation, education, business and other physical studies related opportunities.	Intermediate Algebra with Trigonometry (or Math 104 at MCC). Biology	Appeals to students interested in physical fitness or sports who are looking for careers as teachers, coaches, athletic trainers, fitness professionals, sports managers, officials and sports psychologists.
Political Science (Sequence)	Transfer to bachelor's degree programs that lead to careers in law, government and public administration, diplomatic service, business and marketing in (domestic) national and international areas, journalism and teaching.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	Appeals to students interested in studying the origin, development, and operation of political systems and public policy (such as the decisions of the U.S. Supreme Court or election results) as well as the theory and practice of domestic and international relations.
Social and Behavioral Sciences (Sequence)	Transfer to bachelor's degree programs leading to careers in anthropology, education, museum work, psychology, sociology and other major professional fields.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	Appeals to students interested in studying people: how they came to be what they are, what makes them act as they do, and how the human condition could be improved.

SERVICE PROGRAMS

Addictions Counseling (A.S.)	Social worker in a drug treatment agency, hospital or drug prevention area.	Intermediate Algebra (or MTH 104 at MCC). Biology	Students who are interested in counseling, managing, educating, and treating people suffering from addiction and substance abuse.
Criminal Justice – Corrections Administration (A.A.S.)	Federal, state, or county corrections officer.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students who are interested in serving the public, are committed to social justice, and are seeking careers as federal, state or county corrections officers.
Criminal Justice - Police Science (A.A.S.)	Police officer, deputy sheriff, state trooper, security officer.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students who are interested in serving the public, are committed to social justice, and are seeking careers as police officers, deputy sheriffs, state troopers or security officers.
Criminal Justice (A.S.)	Transfer to bachelor's degree programs in pre-law, public safety, criminal justice planning, and federal law enforcement agencies.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	Appeals to students who are interested in serving the public, are committed to justice, and want a career in federal level law enforcement, probation, parole, the law, public safety or criminal justice planning.
Emergency Medical Technician (Paramedic) (A.A.S.) Admission to this program is in January only.	Designed for the student interested in a broad-based emergency medical services education for pre-hospital providers. Degree program graduates exceed the requirements necessary to sit for the NY State Department of Health certification examinations leading to certification as an Emergency Medical Technician Paramedic.	Elementary Algebra with Geometry (or Math 098 at MCC). EMT Certification.	Appeals to students seeking the excitement and challenge of a physically strenuous, stressful occupation that involves life-or-death situations.
Fire Protection Technology (A.A.S.)	Industrial fire safety and security, fire protection engineering and technology, fire insurance inspection, investigating and underwriting municipal, town and county fire departments.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students with self-discipline, courage, mechanical aptitude, endurance, strength, and a sense of public service, who are interested in providing fire protection to the general population.

Programs	Career Choices	Required Courses	Program Appeals To
Hospitality Management (A.A.S.) Tracks include: Food Service Administration, Golf Management, Hotel Technology, or Travel and Tourism	Front desk clerk, banquet and catering person. With experience, front office manager, assistant general manager, sales and convention manager, assistant personnel director, director of housekeeping. Transfer to bachelor's degree program in hotel management.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students looking for formal courses in hotel, business, liberal arts and food services administration, as well as those interested in cooperative experience in the field.
Human Services (A.A.S.)	Aides in social work, mental health agencies, child care centers, nursery schools, institutions for persons with mental, emotional and physical disabilities.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC). Placement in English 101.	Appeals to students who want to work in the field, and are looking for careers such as aides in social work, mental health agencies, daycare centers; nursery schools; and institutions for physically and mentally handicapped people.
Human Services (A.S.)	Transfer to bachelor's degree programs that lead to careers such as counselors and social workers.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC). Placement into ENG 101 or higher	Appeals to those who work well with others, are open to new experiences, and have a strong desire to work in a helping profession.
UNDECLARED			
Undeclared (Sequence)	MCC provides career interest testing and counseling services. Contact the Admissions Office to meet with a counselor and discuss the Undeclared option.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC). High school students should take advantage of career assessment tests available at their high school (e.g. Discover, Choices or SIGI+)	For those who are interested in pursuing a degree or certificate program but are not certain of their career or academic direction, choosing the Undeclared option provides an opportunity for academic and career exploration.
CERTIFICATES			
Addictions Counseling (Pending NYSED registration)	Addictions Counselor, Case Manager, Primary therapists in an addictions treatment setting.	This program is designed to accommodate students who wish to add addictions counseling education to pre-existing Bachelor's or Master's degrees. Should exceptional circumstances exist such that less qualified students might appropriately register for this program, high school requirements of MTH 104 with a grade of C or better, or MCC Level 8 (formerly Tier 4) Mathematics placement AND placement into English 101 or higher would be required.	Program is designed for adults who already have Bachelor's or Master's degrees will attract students who already work, or wish to work, in the field of social work, human services, or addictions counseling programs.
Advanced Studies	Liberal Arts and Science	The required minimum high school average is 88, the class rank of top 20% and a minimum SAT score of 1680 (combined Critical Reading, Math, and Writing) or higher; or SAT Score: 1120 or higher (combined Critical Reading & Math) for students who did not take the Writing subtest. Recommended High School Courses: AP English Language, AP English Literature, AP Biology, AP Chemistry	Highly motivated students seeking an Honors experience.

Programs	Career Choices	Required Courses	Program Appeals To
Computer Aided Design and Drafting Certificate	Mechanical Designer, Mechanical Draftsperson, Product Development Design Engineer, CAD/CAM operator, Design Technician	High school graduate or GED, Elementary Algebra with Geometry or MTH 098 at MCC	Appeals to students interested in becoming CADD designers, but do not wish to complete a 2-year degree.
Criminal Justice - Corrections Administration	For in-service officers as well as those wishing to enter the corrections field. Provides a concentration of courses covering responsibilities in corrections administration.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to in-service officers as well as students wishing to enter the Corrections field.
Culinary Arts	Graduates will have established a basis for entry-level positions in the food service industry including assistant cook and assistant food preparation person.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Program appeals to students who are primarily interested in a food service concentration (without a liberal arts background)
Dental Assisting On-campus program applicants need to apply by January 31. Admission is September only.	Entry-level employment within the dental profession.	Completed physical examination. H.S. diploma or GED and CPR certification. The online option is for currently employed Dental Assistants with a sponsoring dentist.	Appeals to students planning to seek entry-level employment within the dental profession.
Early Care	Working with young children in preschool and pre-kindergarten settings, child care classrooms, home-based or center-based child care facilities.	H.S. diploma or equivalent. Placement into TRS 105 English or higher.	Appeals to students who enjoy working with young children in preschool and pre-kindergarten settings, childcare classrooms, and home-based or center-based child care facilities.
Emergency Medical Services	Designed for students interested in preparing for entry in the Emergency Medical Services field.	Required Pre-requisite(s). Elementary Algebra with Geometry (or Math 098 at MCC).	Students currently working in Emergency Medical Services who want to prepare for advancement within the field or prepare for entry.
Food Management	Designed for those with previous work experience in the production and service areas of food industry who want to enter or enhance knowledge in management positions.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students with previous work experience in the production and service areas of food industry who want to enter management positions or enhance their knowledge of the field.
Heating, Ventilating, and Air Conditioning (HVAC)	Designed for entry-level position as a preventive maintenance mechanic or installation/service technician and for those already employed in the HVAC field.	Elementary Algebra with Geometry (or Math 098 at MCC)	Appeals to those already employed in the HVAC field, as well as those planning to pursue entry-level positions as preventative maintenance mechanics or installation/service technicians.
Hotel Management	Graduates will have established the basis for a career in the hotel industry and will be qualified for at least entry-level positions in the areas of front office, reservations, concierge, housekeeping and food and beverage within a hotel.	Placement into English 101	Program appeals to students who are primarily interested in a Hotel Management concentration without a broad liberal arts background.
Human Services	Designed for those who want to learn the skills and attitudes needed for employment and for upgrading in human service positions.	Elementary Algebra with Geometry (or Math 098 at MCC). Placement into English 101	Appeals to students who want to learn the skills and knowledge needed for employment in human services careers.

Programs	Career Choices	Required Courses	Program Appeals To
Interior Design	The Interior Design program is designed for those who are currently working in retail jobs and are looking to increase their upward mobility, or for those who wish to acquire the basic knowledge and skills that will qualify them for an entry-level position in retail home furnishings and interior design.	Pre-Algebra (one-year high school math or placement into Level 3 Math at MCC)	Appeals to students who are currently working in retail jobs and are looking to increase their upward mobility, or for those who wish to acquire the basic knowledge and skills that will qualify them for entry-level positions in retail home furnishings and interior design.
Law Enforcement	Develops the knowledge, skills and abilities in the law, the process of the criminal justice system, the scientific method of criminal investigation, report writing, communication and judgment skills necessary for law enforcement agents.	Enrollment is limited to recruit officers employed or sponsored by law enforcement agencies attending the NY State Basic Course for Police.	Appeals to students interested in developing the knowledge and skills necessary for a career as a law enforcement agent, such as the process of the criminal justice system, scientific methods of criminal investigation, report writing and communication.
Mathematics	This program is intended to demonstrate significant work in Mathematics. It is appropriate for any student considering obtaining a 4-year degree in a Mathematics-based field.	4 years of High School Mathematics (83 or higher each required); this must include Algebra, Geometry, Trigonometry, and one year of Precalculus, or MTH 175 with a grade of C or higher.	Students who enter college undecided about their future career who have demonstrated an ability in Mathematics in High School.
Office Technology: Clerk-Typist	Job-entry skills in typing and general office practices and procedures. Careers include secretary, office worker, keyboardeer, typist.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Appeals to students interested in learning typing and general office practices and procedures. Appropriate for those looking for careers as secretaries, office workers, keyboarders, or typists.
Office Technology: Information Processing	Work in office settings using word processing, filing, spreadsheets, record keeping, and electronic communications.	Students with no previous keyboarding background or a skill level less than 24 wpm must take OFT 110. Placement into TRS 105 English or higher	Appeals to students who are task-oriented and are interested in a clerical entry-level position.
Office Technology: Medical Office Assistant	Employment in hospitals, physician's offices, industries with medical offices, nursing, public health offices, insurance companies and dental offices.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC). Demonstrated keyboard proficiency or completion of OFT 110. Keyboarding I	Appeals to students preparing for secretarial careers in the medical or health-care fields.
Optical Systems Technology	Designed for people working in the field or in an allied field to provide training in optical activities, such as testing, quality control, and production. Provides background in optics using the eye as a detector, but not incorporating the peripheral disciplines, such as electronics and photography, as offered in the A.A.S. program in Optics.	Intermediate Algebra with Trigonometry (or Math 104 at MCC)	Appeals to students interested in optical activities, such as testing, quality control and production.
Paralegal Studies	Program leads to nationally recognized certificate in Paralegal Studies. Provides employment opportunities in the legal profession.	Students seeking admission to Paralegal Studies must possess an Associate degree; Bachelor's degree preferred. For students without a Bachelor's degree, a departmental interview/recommendation is required.	Appeals to students interested in employment opportunities in the legal profession (a nationally recognized certificate).

Programs	Career Choices	Required Courses	Program Appeals To
Paramedic	Designed for the student interested in a broad-based emergency medical services education for pre-hospital providers. Degree program graduates exceed the requirements necessary to sit for the NY State Department of Health certification examinations leading to certification as an Emergency Medical Technician Paramedic.	High School diploma. EMT certification.	Appeals to students seeking the excitement and challenge of a physically strenuous, stressful occupation that involves life-or-death situations.
Precision Machining - Optical Fabrication	Optician apprentice, optician, inspector, machinist, optical coater, or process engineering technician.	Pre-Algebra (1 year high school math or placement into Level 3 Math at MCC)	Technically-oriented students who enjoy creating and manufacturing things, who have a good background in physics and math, and who prefer to work in teams.
Precision Tooling	This program will take the student through the operation of manual machine tools to print reading, to theoretical reading in CNC (computer numerical control) machining.	Elementary Algebra with Geometry (or Math 098 at MCC)	Appeals to students planning to enter the workforce in company sponsored apprenticeship programs or production tooling level positions in the precision tooling and machining industry.



Knowledge and Skills Areas - SUNY Learning Outcomes

Mathematics (M) [SMAT]	Natural Sciences (NS) [SNSC]	Social Sciences (SS) [SSCS]	American History (AH) [SAMH]	Western Civilization (WC) [SWCV]	Other World Civilizations (OWC) [SOWZ]	Humanities (H) [SHUM]	The Arts (A) [SART]	Foreign Language (FL) [SFRL]	Basic Communication (BC) [SCOM]
Waiver	Waiver	Waiver	Waiver	Waiver	Waiver	Waiver	Waiver	Waiver	Waiver
MTH 140	BIO 116	ANT 101	If Below 85 on US History Regents Exam: HIS 111	ART 118*	ANT 102*	ART 118*	AAD 104	ARA 101	ENG 101
MTH 141#	BIO 120	ANT 102*		ART 119*	ANT 201*	ART 119*	AAD 160	ARA 102	ENG 200
MTH 150	BIO 132 & 133	ANT 110		HIS 105	ART 121*	ART 121*	ART 101	ASL 101+	ENG 250
MTH 151		ANT 130		HIS 106	GEG 102*	ART 240	ART 104	ASL 102+	ENG 251
MTH 156	BIO 135	ANT 201*		HIS 108	HIS 253	ART 270	ART 107	ASL 103+	
MTH 160	BIO 136	ANT 202		HIS 111	HIS 225	HIS 254	ART 271	ART 108	ASL 104+
MTH 165	BIO 143	ECO 101		HIS 112	HMN 220*	PHL 109*	ENG 105	ART 109	ASL 201
MTH 175#	BIO 155	ECO 111		If 85 or Above on US History Regents Exam: HIS 103	HMN 221*	POS 220*	ENG 106	ART 120	CHI 101
MTH 200#	BIO 195	ECO 112			MUS 201	SOC 150*	ENG 108	COM 120	CHI 102
MTH 210#	CHE 100	GEG 102*			MUS 202	SOC 208	ENG 109	EDU 150	CHI 103
MTH 211#	CHE 110	GEG 201	PHL 108*			ENG 201	ENG 213	FRE 101	
MTH 212#	CHE 124	GEG 211				ENG 202	MUS 108	FRE 102	
	CHE 136	POS 110				ENG 203	MUS 109	FRE 103	
	CHE 145	POS 120*	HIS 104			ENG 204	MUS 113	FRE 104	
	CHE 151	POS 207*	HIS 111			ENG 208	MUS 119*	FRE 207	
	GEG 100 & 101	POS 210	HIS 112			ENG 209	MUS 122	GER 101	
		POS 220*	HIS 211			ENG 210	MUS 124	GER 102	
	GEO 101	POS 225	HIS 230		ENG 214	MUS 126	GER 103		
	GEO 105 & 115	POS 230*	HIS 232		ENG 215	MUS 129	GER 104		
		POS 245*	HIS 234		ENG 216	MUS 151	HBR 101		
	GEO 111	PPE 208	HIS 235		ENG 217	MUS 153	HBR 102		
	PHY 120 & 121	PSY 101	HIS 240		ENG 218	MUS 154	ITA 101		
		PSY 220	HIS 262		ENG 220	PHO 101	ITA 102		
	PHY 131	SBS 125	HIS 283		ENG 223	PHO 106	ITA 103		
	PHY 141	SBS 295	POS 120*		ENG 224	SPT 119	ITA 207		
	PHY 145	SOC 101	POS 207*		ENG 225	THE 110	JPN 101		
	PHY 154	SOC 130	POS 230*		ENG 230	THE 111	JPN 102		
	PHY 161	SOC 150*	POS 245*		ENG 240	THE 112	JPN 103		
	SCI 131	SOC 200			HIS 257	THE 190	SPA 101		
		SOC 201			HMN 220*	THE 212	SPA 102		
		SOC 202			HMN 221*		SPA 103		
					HMN 222		SPA 104		
					HMN 295		SPA 110		
					IDC 195		SPA 122		
					IDC 295		SPA 123		
					MUS 101		SPA 131		
					MUS 119*		SPA 207		
					PHL 101				
					PHL 102				
					PHL 103				
					PHL 104				
					PHL 105				
					PHL 108*				
					PHL 109*				
					PHL 250				
					PHO 140				
					PHO 145				
					SPT 120				
					SPT 131				
					THE 147				

*This course appears in more than one knowledge and skill area, but can only be used to fulfill one requirement at MCC.

+Can only be used for education, health, social work or human services programs.

#A passing grade in this course will qualify as a waiver for this knowledge and skill area.

Italicized courses are new.

The most recent version of this document can be found online at: www.monroecc.edu, A-Z Index, SUNY General Education.

Revised 2/24/10