

PDF PROGRAM LIST

Career Paths

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With more than 130 academic programs, you'll be able to get that certificate or degree. Not sure about the difference between a certificate and degree? We've got you covered.

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CCMETI Introduction to Manufacturing Processes

In this program, students (including dual-enrolled high school students) interested in exploring the manufacturing industry will learn fundamentals in manufacturing including blueprint reading, 3D modeling systems and output files used to control manufacturing systems. Part manufacturing processes including measurement, safety, machining at mills, lathes and saws will be introduced. In these entry-level courses, students will learn setup and operation procedures at CNC computerized mills and lathes, control of process at CNC mills and lathes to produced quality parts as well as fundamentals for writing programs.

CCNAST Nursing Assistant Skills Training

This state certified four-five week program prepares students to work as a nursing assistant in a variety of health care settings such as nursing homes, hospitals and home care. Training takes place in the classroom, lab and clinical settings within the community. Upon completion of the program, students are eligible to apply for and take the Michigan Certified Nurse Aid (CNA) exam.

CTANI 3D Animation

The 3D Animation Certificate prepares students with fundamental skills for entry-level positions in the digital 3D modeling and animation industry and is a stepping stone to the Associate Degree in 3D Animation. Foundation areas of study include visual perception of 3D form and shape, volume/weight, surface mapping and lighting, basic 3D animation and motion graphic composition.

CTACCB Accounting for Business

This program prepares students for entry-level positions with accounting and tax services, CPA firms, and small businesses where they will provide accounting skills, computer skills, and office support. It also gives students credit that can be applied toward the Associate's Degree in Accounting.

CTASC Addiction Studies

This program is designed for professionals interested in pursuing Certified Alcohol and Drug Counseling (CADC) certification through the State of Michigan. Courses focus on knowledge and skills necessary for working with clients with substance abuse disorders. This program will fulfill the educational requirements needed for CADC. Additional requirements for work experience and supervision must be met outside of this program.

CTADA Administrative Assistant I

This program prepares students for immediate employment in entry-level information processing, receptionist, and general office positions. Students will obtain skills in document formatting, electronic organization and collaboration, record management, and Internet communication and scheduling. It also gives students credits that can be used toward an associate degree in Business Office Administration.

CTADS Applied Data Science

The Applied Data Science certificate is intended for students who want to pursue a career in data analytics ("big data") or enhance their current business skills. Students learn how to capture, manipulate, and analyze structured data-the massive volume of numeric values that can be easily stored and sorted. They learn how to transform data into information to enable faster and more intelligent decision-making.

CTAC Apprenticeship Completion

This program gives skilled tradespersons who are sponsored by qualified organizations the opportunity to apply trade-related credits from their apprenticeship programs toward a WCC Certificate. Students must be sponsored by a qualified organization to enroll in this program.

CTMPEA Audio Production and Engineering

This program is designed for students who wish to develop skills in audio production and engineering that can be applied to multiple industries from music to the digital media arts. Students will assess their personal skills and interests against emerging trends in the industry and be given instruction and the opportunity to receive nationally recognized Avid Pro Tools certification. In addition, students will enhance their engineering skills in multiple recording and live sound settings from solo or group recording to live event reinforcement. Students will also advance their understanding of keyboard theory, music composition for software and develop a professional portfolio and resume by collaborating and networking with clients and professionals in their industry. ***Effective FALL 2019: MUS 170, MUS 175, MUS 245, MUS 248, MUS 275 and MUS 286 were changed to AUD 170, AUD 175, AUD 245, AUD 248, AUD 275 & AUD 286, respectively.***

CTAUBR Auto Body Repair

This certificate will appeal to a wide array of automobile enthusiasts. Only aspiring body technicians and painters, individuals with an interest in custom cars, hobbyists, and those wishing to start a career in the collision repair industry, need apply. Through the use of NATEF approved curriculum, students will develop core skills such as dent removal, panel replacement, welding, and automobile refinishing techniques and collision-related mechanical repair. Emphasis is placed on preparing students for employment in an ever-changing workplace that adheres to A.S.E. and I-Car standards associated with the collision repair industry. This certificate also provides a stepping-stone to WCC's Advanced Auto Body certificates.

CTACYB Automotive Cybersecurity

This certificate programs is designed to meet the emerging demand for highly skilled automotive cybersecurity professionals. In this certificate program, students are introduced to the skills and strategies needed to test security related to automobile networks and related infrastructure. Students will work with the various automobile networks (CAN, LIN, Ethernet, and FlexRay) and explore protocols and messages produced by the vehicle that could be vulnerable to attacks. Students will consider risk mitigation technologies including authentication, encryption and firewall technologies. Learners in this program acquire

the following skills: Learn basic networking concepts including V2V, V2I and V2X communication; Understand common security terms and concepts and how they relate to automobiles in both a technical and compliance nature; Understand relevant vehicle technologies including ECU's (Electronic control unit) and basic electrical theory; Read and write basic computer programs and scripts; Develop process and procedures for testing the security of a vehicle's information network; Practice reverse engineering techniques for testing security.

CTASVT Automotive Services Technician

This program prepares students for employment as a certified automotive technician. Students will diagnose and repair malfunctions in automobile engines, suspensions and steering systems, brakes, electrical and electronic systems and engine drivability issues. This program also offers opportunities to explore vehicle performance, diesel, alternative fuel vehicles, hybrid vehicles and to participate in the building of performance vehicles. The program prepares the student for the State of Michigan Mechanic Certification tests as well as the National Institute for Automotive Service Excellence (ASE) Certification Exams.

CTBPAA Baking and Pastry Essentials

In this introductory program, students will learn the science of baking, basic baking and pastry techniques, and food service sanitation. Emphasis is placed on safe food handling, storage and proper utilization of ingredients and equipment.

CTBPAS Baking and Pastry Skills and Operations

This program prepares students for entry-level careers in commercial baking, where they may work in bakeries, country clubs, resorts, hotels, or institutional food service operations. Courses can be applied toward the Associate in Applied Science Degree in baking and pastry.

CTBCAC Broadcast Media Arts

The Broadcast Media Arts certificate gives students training in the realm of radio, including live production, editing, vocal delivery and scriptwriting. These skills set the groundwork for a career in radio and highlight training for other fields including voice-over work, broadcast journalism, public relations, marketing and promotions, advertising and media production. This certificate prepares students who are career-track minded and looking to go directly into the field, along with those who are planning to complete further studies.

CTBUSB Business Enterprise Basics

In this program, students will build develop a foundational understanding of business operations basics. It will provide a framework for students to develop a plan for future study in the business field.

CTCDA Child Development

This Child Development Certificate is the first level in a three-tier training program. This program prepares students for the assessment exam required for the Child Development Associate (CDA) credential. It also prepares students for employment in child care centers or in family home daycare settings working with infants and toddlers, or preschoolers. Skills from the 13 functional areas required by the National Council for Early Childhood Professional Recognition are emphasized.

CTWBCE Client-side Web Developer

This program is designed for students interested in employment as Client-side Web Developers. Students will create standards-compliant, accessible and usable Web interfaces that meet both user and client needs.

CTCSSC Computer Software Applications

This program provides computer skills training in seven office software applications, using the Microsoft Office Suite as well as a Web browser. These courses are primarily intended for students preparing for careers in the administrative office support area. The courses also give students skills that can be applied toward careers in computer application support and records management. It is recommended that students completing the software applications program be able to key at least 40 words per minute.

CTCSTC Computer Systems Technology

This program prepares students for employment as a microcomputer service technician. While preparing students to pass the Computer Technology Industry Association's (CompTIA) A+ Certification Examination, the program goes well beyond the requirements of the exam. The student will develop hands-on troubleshooting skills in solving hardware problems, working with operating systems, and relating to customers. This program also provides the foundation for Washtenaw Community College's two advanced certificates in computer networking.

CTCNS Construction Supervision

This Construction Supervision Certificate program enables apprentice and journey-level members of the articulated union building trade apprenticeship programs to enter the job market with knowledge and skills in planning, organizing and supervising construction projects. This certificate provides an option for those who want to attain a higher position in the construction field and for those desiring to start their own companies.

CTCON1 Construction Technology I

This program prepares students for entry-level jobs in a broad range of careers in the construction industry, where they need an understanding of building systems, the safe use of tools and equipment, materials, and the vocabulary of the field.

CTBCS Core Business Skills

The purpose of this program is to provide a series of courses so students gain a basic understanding of business and the core foundation of business principles. The goal is to provide students the opportunity to combine this certificate with a number of other business certificates as they progress toward an associate's degree. The courses in this program are required in WCC's Business Associate in Arts Degree and the Accounting Associate in Applied Science programs. This certificate also supports WCC's Management, Retail and Supply Chain associate degree programs offered by the School of Business and Entrepreneurial Studies and supports any of the occupational programs where students will be working in a business setting.

CTCULE Culinary Essentials

In this program, students explore the essentials of culinary skills and techniques. Topics relating to food safety, basic knife skills, and conventional cooking methods required in professional food service operations will be discussed. Students with a passion for food, or who are currently employed in entry to mid-level culinary positions, will gain deeper insight in culinary arts to progress in many food service related careers. The program provides a foundation for continued study toward an associate degree.

CTCULM Culinary Skills and Operations

In this program, students will prepare for a position as food production specialist in a hotel, restaurant, or other institutional setting where they will prepare dishes from a variety of menu categories and perform professional skills such as food receiving, storage, and sanitation. Students will explore elemental aspects of food service management and acquire a wide range of industry skills. This certificate also gives students a foundation for continued study in an associate degree in culinary arts.

CFDAC Dental Assisting

This program prepares students for entry-level dental assisting positions in a variety of settings such as private dental offices, dental schools, the military, and dental insurance offices. The curriculum includes the required dental radiography courses that allow graduates to expose dental radiographs in the State of Michigan. The program also prepares students for the Dental Assisting National Board (DANB) examination, which leads to the nationally recognized status of a Certified Dental Assistant (CDA). As a CDA, graduates assist in the treatment of patients. Graduates of the program are also prepared to take the Michigan State Board of Dentistry examination, which gives recognition as a Registered Dental Assistant (RDA). As an RDA in the State of Michigan, graduates can perform specific intra-oral functions generally performed by a dentist. The program is accredited by the American Dental Association Commission on Dental Accreditation, 211 East Chicago Avenue, Chicago, Illinois 60611. Students may enroll in this program in one of two pathways. Pathway I is the format for the student who is not employed in a dental office. Pathway II (ADAEP) is the advanced standing option for the dental assistant with two or more years of experience as a dental assistant who has passed all three portions of the Dental Assisting National Board (DANB) CDA examination. These pathways are described in detail at <http://health.wccnet.edu/dentalassisting/certification/>.

CTBSMS Digital Business Marketing and Sales

This certificate is designed to provide students with the opportunity for employment in digital marketing and sales that require basic digital business applications. Specific skills include customer interface, basic market research, business trends, presentation content, presentation tools and business market analysis. This program allows students to obtain this certificate as a specialized credential as they progress towards an advanced business certificate, Associate Degree or a transfer pathway to a four-year university.

CTWDGS Digital Strategist

This program is for students interested in the strategic management aspects of web design and development. Courses focus on the knowledge and skills necessary for employment as a digital strategist, marketing specialist or project manager.

CTDVPC Digital Video Production

This program prepares students for entry-level media production positions in organizations where they will create digitized video productions for the Web and other presentation forms that may be used for informational, documentary, instructional, commercial, artistic, or other purposes. The program provides instruction in all facets of video production from program design to hands-on recording through the editing process. Students also gain skills in the use of computer software applications. Students should choose the appropriate faculty for academic advising based on their last name: Dan Kier (A-M), Matt Zacharias (N-Z).

CTEDT Engineering and Design Technology

The Engineering Design Technology program prepares students to create and design products using engineering software and production methods used in today's growing global economy. Students will be introduced to product design processes and engineering and design technology concepts. Using various software tools, students will experiment with design concepts as a mean to developing unique products for the construction, automotive or other production industries. Hands-on experience with design-appropriate materials will round out the development process.

CTESL1 English as a Second Language

This certificate is for international students who would like to prepare for college degree study in the United States. Students experience rigorous English study in grammar, writing, listening/speaking, and reading in order to give them the best possible chances of success in future degree studies.

CTENTI Entrepreneurship and Innovation

This certificate provides students with the ability to continuously learn and adapt the business knowledge, skills and attitudes needed to succeed in business, whether as an entrepreneur starting and operating a small business or as an entrepreneur within an organization. Students learn to recognize market opportunities within an industry, plan a business initiative to develop their big idea, and evaluate its profit potential. This certificate is appropriate for students who wish to be self-employed.

CTFPA Fine and Performing Arts

In this program, students are given the opportunity to develop and refine the skills used in their craft. The student's career plans are enriched through the opportunity to develop a plan for self-management. Together, these two areas will help students determine their short-and-long term career goals.

CTFPOW Fluid Power

This program prepares students for entry level positions as a hydraulic technician. The program gives students an understanding of hydraulic and pneumatic system design including motion control, using electro-hydraulic proportional and servo valves. Students who complete the program may choose to take the Hydraulic Specialist or Technician Certification Examination through the Fluid Power Society.

CTFIS Foundations of Information Systems

The Foundations of Information Systems certificate provides a conceptual framework for those students wishing to become a professional in computer information systems or computer programming. The student will be introduced to computer science programming logic, as well as developing algorithms to solve programming problems. In addition, students will acquire an understanding of the impact of information systems and information technology on the business, industrial, and other environments in which they will work as programmers or analysts.

CFGDTC Graphic Design

This program provides students with entry-level skills in graphic design and allows students to upgrade or expand their present skills. It also is a path for upgrading or expanding skills in one's present employment. Students will focus on typography and the foundations of visual communication design for both print and on-screen media, and build skills in the most widely used graphic design software applications. This program provides credits towards the Associate in Applied Science Degree in Graphic Design.

CTHCF Health Care Foundations

This program helps students acquire basic knowledge and skills in math, foundational sciences, healthcare terminology and general education courses. The certificate fulfills major pre-admission requirements for Nursing, Physical Therapist Assistant, Radiography, Surgical Technology and general education

requirements for an Associate in Applied Science degree. It provides students applying for a "high demand" healthcare associate's degree program with a certificate for the completion of most general education and/or pre-admission course requirements of the intended program. Students who plan to enter healthcare programs are encouraged to contact a counselor and enroll in the Healthcare Exploration course.

CTHVRR Heating, Ventilation, Air Conditioning, and Refrigeration - Residential

This program prepares students for entry-level jobs in HVAC contracting companies, HVAC servicing companies, hospitals, schools and other public institutions, and apprenticeships in large manufacturing plants and supply houses. In these commercial, residential, or institutional settings students combine their diagnostic and repair skills with customer relations skills to service heating, ventilation, and air conditioning equipment. This program also helps prepare students for the third class refrigeration licensure examination.

CTHRMG Human Resource Management (HRM)

This program prepares students for entry-level jobs as a human resource assistant or specialist where they will be assisting in activities that range from recruiting, interviewing and hiring job candidates to evaluating jobs, negotiating contracts, and ensuring company compliance with equal opportunity regulations. This program also provides students with basic management skills that will improve their ability to manage people.

CFIET Industrial Electronics Technology

This program prepares students for entry-level jobs in any of the industrial electricity/electronics cluster of occupations. Students will develop skills in the installation, maintenance, and troubleshooting of industrial control systems with a focus on programmable logic controllers, electronic sensors, and electronic control circuits.

CTWBID Interface Designer

This program is designed for students interested in gaining the skills necessary to design industry standard digital interfaces. Students will learn Web design skills such as appropriate use of Web fonts, colors on the Web, Web layout and digital marketing collateral.

CTPAIW Ironworkers Pre-Apprenticeship

In this certificate program, students will be introduced to the necessary skills needed to be a Union Ironworker across the United States and Canada. Training includes print reading, safety and welding processes used by the Union Ironworker trades. Students who successfully complete the program will be eligible for advanced standing in the Ironworker Local Union Apprenticeship Training Program.

CTLUX Linux/UNIX Systems

This certificate helps prepare students to complete the Linux+ and LPIC-1 industry certificates. Linux is a popular web server, file server and database hosting platform and is commonly used in everything from mobile computing devices to large scale data center environments and supercomputers.

CTMTP Machine Tool Programming (CNC)

In this program, students will learn to write, read, and edit programs for CNC machine tools. They will understand core canned cycles for milling and turning operations on CNC machine tools and have the skills to do 2D and 3D modeling and posting of CNC code using CAD/CAM software. Students completing this certificate will be able to create, edit, and debug code for local manufacturing companies.

CTMISO Machine Tool Setup and Operation

In this program, students learn to setup and operate CNC machine tools, traditional mills, lathes, and saws. They learn how to use basic measurement tools and read blueprints. This certificate will highlight the fundamentals of materials and processes including mechanical and physical testing and heat treatment of ferrous and non-ferrous metals. Students completing this certificate will be able to perform many of the fundamental tasks within a fabrication shop, including simple part manufacturing, set-up and operation of CNC machine tools as well as inspection using simple measurement tools.

CTMNGC Management

This certificate offers students an opportunity to acquire skills to supervise an operation by learning and applying basic management principles through case studies and exercises. Upon completing this program, students will be able to use various tools to manage an operation which includes developing goals, organizing work activities, promoting desired employee performance, and monitoring productivity with a customer focus. Emphasis will be placed on developing skills that will involve both a critical and creative approach to management problem-solving activities. The certificate may also be applied toward various Associate in Applied Science degrees.

CTMA2 Medical Assisting

In this program, students will develop comprehensive skills in managing both administrative and clinical duties such as coding, scheduling, arranging for laboratory services, instructing patients about medication and special diets and drawing blood. This program is designed to prepare professional multi-skilled individuals for employment in physician's offices, medical clinics, laboratories and other ambulatory health care facilities. Graduates will be prepared to sit for the medical assisting certification exam.

CTMBC Medical Billing and Coding

In this program, students will develop comprehensive skills in classifying, coding, reporting, analyzing and managing medical data for both physician's office and large healthcare facility settings. Students will also learn how to code and process claims for reimbursement for multiple healthcare environments, and learn about pertinent laws, regulations, and compliance issues affecting healthcare information management and privacy. Upon completion of this program, students may be eligible to take the AHIMA CCA, CCS and CCS-P coding exams. This program is not an AAMA certification preparation program.

CTMST1 Motorcycle Service Technology I

This purpose of the Motorcycle Service Technology I program is to provide the student with fundamental certification as a motorcycle technician. The student will receive skill training in service department operations, vehicle set-up, mileage-based maintenances, and damage repair estimating. Areas of instruction include; troubleshooting, diagnosing, servicing, and the repair of primary and final drive systems, transmissions, brakes, suspensions, electrical, and induction systems. The program will provide the skills for the student to test for the State of Michigan Motorcycle Mechanics License.

CTPHOI Photographic Imaging

This program prepares students to enter the ever-evolving field of photography by providing a strong foundation of technical and aesthetic skills. Areas of study include: basic camera operation and composition skills; film and digital exposure and processing methods; studio lighting; and printing and presentation techniques.

CTPA Police Academy

The successful completion of this program is mandatory for anyone seeking law enforcement licensing in the State of Michigan. The Michigan Commission on Law Enforcement Standards (MCOLES) and the WCC Police Academy Advisory Committee have created the course content. The WCC Student Handbook, the MCOLES Policy and Procedure Manual, and the WCC Police Academy Daily Rules and Regulations will govern student conduct. The police academy is structured as an adult learning experience, and will require significant self-discipline on the part of the student. Teamwork is required. Just as sworn law enforcement officers operate under a code of honor which requires them to be above reproach in ethics and behavior, students will also be held to this same standard. MCOLES pre-enrollment is a prerequisite of this course. Prospective students should review the "Selection and Employment Standards for Michigan Law Enforcement Officers" on the MCOLES Web site: <http://mi.gov/mcoles>

CTCYS Principles of Cybersecurity

This program is designed to meet the emerging demand for highly skilled cybersecurity professionals within the information technology industry and business community. This certificate program provides an in-depth examination of cybersecurity technology with an emphasis on executing a vulnerability analysis of an organization network and network hardening. The student will be trained to use various tools to analyze networks for vulnerabilities and secure networks through the application of various defense mechanisms including firewalls, intrusion detection and Virtual Private Networks (VPN).

CTRBUS Retail and Business Operations

It takes a large number of people working in customer-facing roles as well as behind-the-scenes in a retail operation to keep employees, customers and investors happy. Students who complete this certificate will be knowledgeable, capable and enthusiastic employees who can procure, display and deliver products and services to customers profitably in a retail setting. Students will gain the skills and expertise needed to manage retail projects as well as make and communicate decisions related to human resources, profits, productivity and processes when managing the operations aspect of a business unit.

CTWBSD Server-side Web Developer

This program is designed for students interested in employment as Server-side Web Developers. Students will create standards-compliant, accessible and usable Web interfaces that meet both user and client needs.

CTSPTF Sterile Processing

This certificate program prepares students for an occupation in central processing and sterilization of hospital instrumentation, supplies, and equipment. Students will apply theories and practices of central service departments contained in hospitals, ambulatory surgery centers, or clinics. The courses provide the fundamentals of central processing, supply and distribution, and provide instruction and practice in aseptic technique. Upon successful completion of this program, the student earns a certificate and may be eligible to sit for the International Association of Healthcare Central Service Material Management National Certifying Examination.

CTSCO Supply Chain Operations

Students who complete this certificate will be knowledgeable, capable and enthusiastic employees who can effectively perform in a supply chain setting which involves coordinating suppliers, manufacturers, distributors and retailers to ensure that products and services are available to the final consumer in a timely and cost-effective fashion while maintaining the service level customers demand. As part of the program, students will be ready to take the tests needed to receive their CLA (Certified Logistics Associate) and CLT (Certified Logistics Technician) industry certifications.

CTTC Technical Communication

As a fast-track program for career changers or a foundational program for first time professionals, this program provides the knowledge and skills necessary for writing end-user documentation such as printed manuals, online help systems and screencast training modules. Using tools of the technical communication profession, the student will develop skill in audience analysis; tutorial, procedure and reference guide writing; project management; document design; and usability testing. Designed to provide the student with practical and theoretical principles of technical communication, the program prepares students for employment in a wide variety of opportunities in the field. To this end, students will also learn how to conduct a formal job search and create professional portfolios to better compete for jobs. Those without previous college experience can use this certificate to seek work as interns and in co-op positions in technical communication while pursuing the Associate in Arts Degree in Technical Communication.

CTWUED User Experience Designer

This program is designed for students interested in employment as a User Experience professional. Students will create industry-standard information architecture, interaction design, information design and human-computer interaction deliverables.

CTWLDS Welding and Fabrication Principles

This certificate introduces students to safe welding and cutting practices and principles including, proper technique and position, weld quality requirements, destructive and non-destructive testing and examination methods, print reading and interpretation of welding symbols as well as basic metal fabrication. Students will use the foundation and working knowledge to weld in all processes, perform repair techniques using thermal cutting and gouging, apply the requirements to executive quality welds and apply CNC programming language that can be used to produce parts that can be assembled and welded. This certificate serves as a fundamental pathway into the Welding and Fabrication Advanced Applications certificate and Welding Technology degree. Students who successfully complete this certificate will have learned the skills sought by the workforce as an entry-level welder and fabricator.

CVAAST Administrative Assistant II

This program provides comprehensive preparation for individuals who are currently employed as office assistants and who wish to advance their careers in office administration by upgrading their skills. Providing the knowledge and skills necessary for employment as a high-level administrative assistant or executive assistant in the public or private sector, this advanced certificate builds on skills developed in the Administrative Assistant I certificate program. In the Administrative Assistant II program, emphasis is placed on the expanding duties of an administrative assistant, and on the necessity of acquiring an in-depth knowledge of integrated software applications for the office. While mastering the technical knowledge essential for the office professional, students will also learn office management and organizational principles. Additionally, the program provides opportunities for skill enhancement in information processing, basic financial management, electronic presentations, and office administration. Upon completion of this program, the student will receive an advanced certificate as an administrative assistant.

CVASV2 Advanced Automotive Services Technician

This advanced certificate builds on the electrical and mechanical skills developed in the Automotive Services Technician (CTASVT) certificate. This advanced certificate prepares students for employment as a certified automotive technician. The program also prepares the student for the State of Michigan certification exams. Using specialized electrical diagnostic equipment students will diagnose and repair vehicle systems such as Automotive Engines, Automatic and Manual Transmissions, Automotive HVAC systems and Powertrain Drivability systems.

CVMTPA Advanced Machine Tool Programming

In this program, students will learn advanced CNC programming skills. Students will practice the fundamentals of Intuitive Probing Systems (IPS) and Visual Quick Code (VQC) needed to create machine tool programs. Starting with 2D and 3D CAM programming and advancing to 4th and 5th axis machining, students will learn the proper methods for creating tool paths.

CVANIF Animation for Film and Broadcast

This program will help prepare students to pursue a career in film, advertising, commercial and other pre-rendered animation fields. Students will learn to model, animate, texture and render in a fashion appropriate for the industries. They will also learn basic compositing and visual effects.

CVANIG Animation for Game Art

This program focuses on the growing electronic game industry. Students will build on their 3D animation skills and learn how to create game levels and custom game assets. Students will create basic artificial intelligence entities and triggers as well as in-game cinematics. Students will learn how to package a game for distribution.

CVBUSE Business Enterprise Essentials

In this program, students will build the essential skills for daily business operations, spanning the major fields of practice. Students will select courses from business management, marketing, finance and communication to build a personal career path. Suggested Career Paths Management BMG 111 Business Law I BMG 181 Introduction to Supply Chain Management BMG 228 Purchasing and Inventory Control BMG 240 Human Resources Management BMG 273 Management Operations BMG 293 Business Enterprise Essentials Capstone Finance ACC 110 Payroll Accounting ACC 131 QuickBooks BMG 111 Business Law I BMG 228 Purchasing and Inventory Control BMG 293 Business Enterprise Essentials Capstone BOS 184 Spreadsheet Software Applications I Marketing and Communications BMG 160 Principles of Sales BMG 200 Relationship Skills in the Workplace BMG 205 Creating the Customer Experience BMG 206 Retail Principles and Practices BMG 240 Human Resources Management BMG 293 Business Enterprise Essentials Capstone

CVCPGM C++ Programming

This program prepares students for jobs as a computer programmer where they will write C++ code and develop applications utilizing object-oriented programming techniques. Students will also develop skills that can be applied to the related jobs of programmer/analyst and software architect.

CVCMT Cabinetmaking/Millwork Technology

This program is designed to develop skills and knowledge needed for positions such as trim carpenters, cabinetmakers, furniture makers and repair technicians. Students will develop skills related to the design, fabrication, and installation of interior cabinetry and trim systems for commercial and residential applications.

CVCNA1 Computer Networking Academy I

This Cisco Networking Academy program prepares students for a job as a network technician where they will install, configure, and troubleshoot Local Area Networks under the supervision of a network administrator. The focus is placed on cabling systems and internetworking hardware. It also gives students the knowledge they'll need to pass the Cisco Certified Network Associate Examination.

CVCNO Computer Networking Operating Systems I

This program lays a foundation in preparation for a profession as a Microsoft Certified IT Professional. Students will install, configure, and troubleshoot Microsoft Client Server Networks. The program is designed to deploy and manage both Windows Server 2003 and Server 2008 with Client Workstations in simulated real-life situations. Administering, managing, monitoring, and troubleshooting of Server 2008 Active Directory, Network Services, and other Server functions are all emphasized. All Server configured activities are tested out using Client Workstations to ensure they work, just as in a real business environment. The program is structured for both those who are working towards Microsoft Server 2003 MCSA/MCSE certifications, and/or Server 2008 MCTS/MCITP certifications. Also those already having certification who want to enhance their knowledge with the newer operating systems, as well as those who may just want to learn how to effectively implement these technologies are welcome.

CVCON2 Construction Technology II

This advanced certificate prepares students for specific careers in construction. The program will prepare students to take the State of Michigan Builder's License exam, create contracts for construction projects, and gain necessary techniques for specific contractors. Students preparing for the State of Michigan builder's license exam will also need CMG 130.

CVABFC Custom Auto Body Fabrication and Chassis Design

The Custom Auto Body Fabrication and Chassis Design certificate focuses on advanced body and paint techniques used to customize automobiles and turn them into "rolling showpieces." Students will expand on knowledge acquired in the Auto Body Repair program. Working in teams, students will build, complete and show a project vehicle. Students will learn advanced sheet metal fabrication and construction of a custom automobile chassis. Areas of study will include various types of building materials and their uses, measurement, pattern development, mechanical drawing, fastener selection, MIG and TIG welding and frame design and suspension types. Other topics such as candies, pearls, tri-stage paint jobs and the application of custom graphics will be discussed. Upon acquiring this advanced certificate, employment possibilities may include specialty shop technician, custom paint technician and metal fabricator/welder.

CVDVAP Digital Video Advanced Production

The advanced certificate in the Digital Video program concentrates on specialty aspects of production. Each course spends a full semester concentrating on the critical phases of pre-production, production and post-production (for example, screenplays, cinematography and editing). This curriculum begins with students' creation of a screenplay and continues with sound design, cinematography, direction, advanced green screen techniques, and television studio applications. A unique component to this curriculum allows each student to write their script at the starting point and produce their concept through each class and phase of pre-production, production, and post-production. Students have the option to either complete the curriculum with one final thesis project or complete multiple project exercises. Students should choose the appropriate faculty for academic advising based on their last name: Dan Kier (A-M), Matt Zacharias (N-Z).

CVHVCT Heating, Ventilation, Air Conditioning and Refrigeration - Commercial Trade

This program is a capstone to HVAC-Residential Certification, and is designed for students who wish to develop skills in HVACR mechanics or installation. It prepares the student for industry-recognized certification (C/IS) for entry-level employment in commercial heating, ventilation and air conditioning. Additional theory and hands-on experience will increase students' knowledge base concerning HVACR systems at the commercial level. The student will develop knowledge and skills in sizing, layout, installation, maintenance, and troubleshooting HVACR equipment.

CVIET2 Industrial Electronics Technology II

This program builds on the foundation of electricity and electronic control introduced in the Industrial Electronics Technology (CFIET) certificate, providing advanced instruction in the areas of industrial automation and electrical standards. Students will learn to apply, control and troubleshoot electric motors, relate their understanding of electricity and controls to the requirements of the National Electrical Code, and pursue other learning critical to industrial automation such as fluid power motion control and digital networks.

CVMST2 Motorcycle Service Technology II

The purpose of the Motorcycle Service Technology II Advanced Certificate program is to improve the student's skills as a motorcycle technician. Emphasis is placed on engine performance technology, dynamometer operations, and welding.

CVJVPR Program in Java

This program is intended for students who need to acquire skills in the Java programming language. The program also gives students skills that can be applied to the related jobs of programmer/analyst.

CVWDPP Web Database Programming Professional

This program focuses on the development of web databases and e-commerce applications. The coursework emphasizes server-side programming and is intended for students with strong programming background. Students will be exposed to a professional team programming exercise. If a student needs exposure to front-end web development, a certificate in the Web Design and Development discipline should be considered.

CVWLDN Welding and Fabrication Advanced Applications

This advanced certificate combines welding fundamentals with more complex welding, cutting and fabrication techniques and applications aimed to further develop one's skills and core competencies. Students focus on welding using processes and positions common in industry, perform destructive and non-destructive testing, identify weld failures and perform root cause analysis, executive repair techniques, perform advanced fabrication techniques and execute automated welding and cutting programming and operations. Students who successfully complete this advanced certificate will have learned a broad range of essential skillsets critical to the trade and how to apply those skills to manufacturing, automotive, construction, aerospace, oil, military industry, gas and power industries.

APANID 3D Animation Arts *TEST*****

The 3D Animation Arts program prepares students for entry-level positions in digital 3D modeling and animation for use in film, video, broadcast, video game design, visualization, advertising, print, and the web. Students will select a concentration in either Film and Broadcast or Game Art. They will develop ideas in the pre-production concept phase, execute them in the production phase, and polish them in the post-production phase to create finished work. Through this process, students will develop critical industry skills such as storyboarding, modeling, texturing, lighting, rigging, animating, rendering, editing, sound engineering, and compositing. Ultimately, students will apply everything they have learned to create a demo reel that showcases their skills.

APACCT Accounting

This program prepares students for jobs with duties assigned to a beginning accountant such as verifying additions, checking audits, postings, and vouchers, analyzing accounts, and preparing financial statements. Many of the courses transfer to four-year colleges, including programs at Eastern Michigan University, Madonna University, and Walsh College. If the primary goal is to transfer into a bachelor's of business administration program in accounting, consider the Business Transfer program.

APATT Automotive Test Technician

In this program, students will be introduced to the test and data acquisition processes used in automotive testing. Students will learn to assemble and disassemble components for automotive testing. Diagnosis, maintenance and proper operation of complex data acquisition equipment are essential. Students will learn to monitor and calibrate testing instruments. Job possibilities include working in a crash lab or other testing facility.

APBPAM Baking and Pastry Arts and Management

This program offers a focused hands-on professional approach to the art of baking and pastry, and will allow students to gain the necessary practical knowledge, theory and skill to become a successful and marketable pastry professional. This program prepares students for careers in dining establishments, catering, baking/pastry shops, chocolatiers or entrepreneurial and cottage industries.

APBUSD Business Enterprise

In this program, students will develop a practical background in daily business operations, spanning the major fields of practice. Students will gain the knowledge and skills necessary to enter or advance in Business. Students can focus on one or more of the areas such as business management, marketing or finance.

APBOAD Business Office Administration

This program prepares students for higher-level support positions in office settings where increased responsibilities require technical skills in desktop publishing, presentation software, accounting, and database software. Students will also gain broader skills through completion of the general education courses required for an associate's degree. Note: This program is not an AAMA Certification preparation program.

APCD Child Development

The Child Development Associate Degree program prepares students to be childhood education professionals. The coursework and practica prepare students to work effectively with young children and families in a variety of settings. The program satisfies Michigan state requirements for licensing as directors of child care centers, lead teachers in child care centers, home-based center providers, and support staff in public school early childhood programs and Head Start agencies. It also prepares students to transfer into a bachelor's degree program.

APCSN Computer Systems and Networking

In this associate degree program, students will learn about the latest desktop, server, and networking technologies. This program has a core of hardware, operating system, networking, and scripting courses that all students must complete. In addition to the common core subjects, students will select a specialized track in one of the following areas: Local and Wide Area Networking, Microsoft Network Operating Systems (Server and Client), and Linux Network Operating Systems.

APCNSP Construction Supervision

This program gives apprentice and journey-level members of the articulated union building trade apprenticeship programs the opportunity to apply their apprenticeship training and trade-related experience toward an associate's degree in Construction Supervision. In addition to the courses in Construction

Supervision, students will complete general education courses and receive prior learning credit for their work experience and apprenticeship. Students must complete an apprenticeship program concentration in plumbing, pipefitting, HVAC, sprinkler fitting, ironworking, bricklaying, tile setting or other approved union building trade. Upon completion of this, students should apply for non-traditional credit evaluation of their apprenticeship experiences to meet the apprentice program concentration requirement (19-26 credits). Architectural and Ornamental Ironworker (AOIW) IWA 120 IWA 122 IWA 131 IWA 161 IWA 201 IWA 224 IWA 265 Brick and Block Laying Apprenticeship (BBLA) BAC 100 BAC 101 BAC 102 BAC 110 BAC 111 BAC 112 BAC 210 BAC 211 BAC 212 BAC 213 HVAC Specialty (HVTC) UAE 140 UAE 142 UAE 144 UAE 146 UAE 148 UAE 150 UAE 152 UAE 154 UAE 156 UAE 158 Journeyman Ironworker (JMIW) IWA 120 IWA 122 IWA 131 IWA 141 IWA 155 IWA 161 IWA 172 IWA 201 IWA 224 IWA 272 Metal Building Erector (MTBE) IWA 120 IWA 122 IWA 131 IWA 161 IWA 172 IWA 201 IWA 224 IWA 235 Pipefitter Specialty (PIPE) UAF 102 UAF 120 UAF 122 UAF 124 UAF 126 UAF 128 UAF 130 UAF 132 UAF 134 UAF 136 Plumber Specialty (PLUM) UAP 100 UAP 102 UAP 104 UAP 106 UAP 108 UAP 110 UAP 112 UAP 114 UAP 116 UAP 118 Reinforcing Ironworker (REIW) IWA 120 IWA 122 IWA 141 IWA 201 IWA 224 IWA 241 Rigger/Machinery Mover (RGMM) IWA 120 IWA 122 IWA 151 IWA 155 IWA 191 IWA 201 IWA 224 Sprinkler Fitter Specialty (SPRF) UAR 160 UAR 162 UAR 164 UAR 166 UAR 168 UAR 170 UAR 172 UAR 174 UAR 176 UAR 178 Tile Mechanics (TILM) BAC 100 BAC 101 BAC 102 BAC 120 BAC 121 BAC 122 BAC 220 BAC 221 BAC 222 BAC 223

APCJLE Criminal Justice - Law Enforcement

This program prepares students for certification to work in law enforcement jobs in the State of Michigan. Students must complete the academic program prior to entering the Police Academy component of the program.

APCULA Culinary Arts and Management

This program prepares students for a career as a professional culinarian in a restaurant, hospitality, or institutional setting. Culinary Arts professionals have a variety of responsibilities that include supervising and coordinating the activities of food service workers or dining room employees, planning menus, estimating daily or weekly needs, ordering and maintaining inventories of supplies and equipment, and keeping records of meals served. The program also provides a foundation for continued culinary arts studies at a four-year college and for chef certification through the American Culinary Federation (ACF).

APSCSY Cybersecurity

In this program, students are introduced to the skills and strategies needed to plan and carry out security measures to protect an organization's computer networks and systems. Students will learn networking and network security skills using server, infrastructure and perimeter technologies working in Linux operating systems, Cisco infrastructure and perimeter devices, and Microsoft operating systems.

APETEC Engineering Technologist-Manufacturing

Students in this program will demonstrate proficiency in the operation of various types of automated design/machine tool equipment. Competencies in design, programming, and materials and machine processing will be developed. In addition, students will hone skills in the manufacturing and troubleshooting of mechanical parts and the setup and operations of advanced manufacturing systems. Students will apply problem-solving skills learned in the program to create innovative solutions for real-world manufacturing challenges in preparation for entry-level Engineering Technologist or Technician positions.

APGRD Graphic Design

This program prepares students for a career as a graphic designer. Graphic designers are specialists in the field of visual communication, trained to communicate, inform, instruct or sell. Students gain skills in the principles of graphic design, publication design, interface and mobile design working on a variety of projects that focus on theory, concept development, typography and production techniques that culminates in the production of a portfolio. Creative and artistic ability is required for careers in graphic design, as well as originality and the capacity for experimentation in visual problem-solving. Students also need the ability to master software skills as they relate to each medium.

APHVCR Heating, Ventilation, Air Conditioning and Refrigeration

This program is a capstone to the Heating, Ventilation, Air Conditioning and Refrigeration - Commercial Trade Advanced Certificate. It provides a rigorous heating, ventilation, air-conditioning and refrigeration (HVACR) background with solid preparation for entry-level management positions or transfer to four-year programs offering bachelor degrees in HVACR, technology management, and other technically oriented fields. This program also provides opportunities to obtain advanced certifications which are recognized throughout the heating, ventilation and air-conditioning industry.

APITRN Industrial Training

This program gives indentured journeymen of the United Association or Ironworkers, the opportunity to apply their work as certified apprentice instructors toward an associate in applied science degree in Industrial Training. Students will complete the general education courses, five summer instructor training sessions, and receive prior learning credits for experience in an area of specialization such as plumbing, pipefitting, HVAC, sprinkler fitting and ironworking.

APJPIM Journeyman Industrial

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. Students can earn an Associate in Applied Science Degree in Journeyman Industrial by completing the requirements listed.

APMNGD Management

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. Students can earn an Associate in Applied Science Degree in Management, by completing the requirements listed below. See an advisor to develop a plan and select appropriate courses for this program.

APMETR Mechatronics

This program prepares students for entry-level positions as an automated equipment technician who assembles, installs, programs, troubleshoots and maintains robotic and automated equipment. Students have a choice to follow any of three different specialty tracks which will prepare them for the various applications of automation. Each track features a variety of application level classes where the student performs lab-oriented practice for required skills. It is highly recommended that beginning students take at least one technical class during their first semester. See an advisor in the Industrial Technology department for assistance. Students must select one of the concentrations to complete as a program requirement. Program Concentrations Fluid Power Specialty (FPWR) FLP 110 Fluid Power Fundamentals - II FLP 214 Hydraulic Circuits and Controls FLP 225 Fluid Power Motion Control FLP 226 Pneumatics Industrial Electronics Specialty (IELC) ELE 211 Basic Electronics ELE 254 PLC Applications FLP 226 Pneumatics Numerical Control Specialty (NCTL) NCT 110 Introduction to Computerized Machining (CNC) - II NCT 120 2D CAD CAM for Shape Cutting NCT 121 Manual Programming and NC Tool Operation NCT 123 2D CAD CAM CNC Programming for Mills and Lathes NCT 221 Advanced Manual Programming and NC Tool Operation

APNURL Nursing, Licensed Practical Nurse to Registered Nurse

This Licensed Practical Nursing to Registered Nurse (LPN to RN) program prepares students for the National Council Licensure Examination for Registered Nursing (NCLEX-RN). Credit earned in the nursing program may transfer to a bachelor's degree (BSN) completion program. Learning opportunities are in the classroom, simulation lab, clinical setting, and community. Students will be prepared to succeed in a dynamic healthcare environment.

APNURS Nursing, Registered

The WCC Nursing Program prepares students for the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Credit earned in the nursing program can transfer to a BSN completion program. Learning opportunities are in the classroom, simulation lab, clinical setting and community. Students will be prepared to succeed in a dynamic healthcare environment. For more detailed information regarding the health care programs at WCC, please visit <http://health.wccnet.edu>.

APOST Occupational Studies

This program allows students to earn an Associate in Applied Science degree by building on occupational/technical courses and certificates. This option can be selected if an associate degree is required or preferred as a condition for employment or advancement in a field. The program also allows students to combine coursework from several occupational areas to prepare for a job that requires multidisciplinary skills. Meet with a divisional counselor or faculty advisor for assistance in developing a program of study. A counselor can help determine career interests and educational goals, as well as provide transfer and career information.

APPHOT Photographic Technology

This program provides a comprehensive foundation in digital and film based photography. Through a combination of required basic courses and specialized elective courses, the student customizes the program to his or her particular interest in the photographic industry. Students have opportunities to work with a variety of advanced photographic equipment including digital cameras, view cameras, traditional darkroom, and various types of studio and location lighting systems. Graduating students produce professional portfolios and self-promotional materials to find employment in a variety of areas such as photographic assisting, photojournalism, fine art, freelance, portrait and wedding photography. Students also complete the program to use photography as a means of personal expression, and as preparation for transferring to four-year baccalaureate programs. Students should choose the appropriate faculty for academic advising based on their last name: Terry Abrams (A-G), Jennifer Baker (H-O), Donald Werthmann (P-Z).

APPTA Physical Therapist Assistant

Physical Therapist Assistants (PTAs) are skilled and licensed health care providers who work under the direction and supervision of physical therapists. PTAs perform components of physical therapy plan of care developed by a supervising physical therapist. PTAs assist physical therapists in providing services that help improve mobility, relieve pain, and prevent or limit permanent disabilities for people of all ages who have medical problems or other health-related concerns. Duties of the PTA include assisting the physical therapist in implementing treatment programs, providing interventions, and communicating with the physical therapist and other members of the health care team regarding the client's response to treatment and interventions. Clients may include accident victims, individuals with disabling conditions, and those requiring instruction in health promotion and wellness activities. Upon successful completion of this program, the student will receive an Associate in Applied Science Degree in Physical Therapist Assistant and is eligible to apply for Michigan licensure and take the National Physical Therapy Examination administered by the Federation of State Boards of Physical Therapy (FSBPT).

APPDT Powertrain Development Technician

In this program, students will develop the knowledge and skills to perform in-car powertrain testing in unique testing environments. Jobs in this area require knowledge of automotive engine and electrical systems and experience with an automotive dynamometer. Students will learn about dynamometer setup and testing including the operation of complex analytical test equipment and test software.

APRAD Radiography

This program prepares students for a career in diagnostic radiology as a radiographer. A radiographer is a technologist who produces images of the human body to aid physicians in the diagnosis and treatment of injuries and diseases. The program curriculum includes a series of courses offered in conjunction with individualized laboratory work and an extensive clinical experience in local hospitals. Upon completion of the program, the student will receive an Associate in Applied Science Degree*** in Radiography and is eligible to take the national registry examination administered by the American Registry of Radiologic Technologists (ARRT). Radiographers work in a variety of settings including hospitals, clinics, doctors' offices and industry. The program is accredited by the Joint Review Committee on Education in Radiologic Technology <http://www.jrcert.org/> 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-2901, (312)704-5300. For more detailed information regarding the Radiography Program, please visit the radiography web page at <http://health.wccnet.edu/radiography/>.

APRM Retail Management

This program emphasizes both the theoretical knowledge and the practical skills needed to succeed in both customer-facing and behind-the-scenes jobs in any type of retail setting. The curriculum was developed with input from industry experts and topics include the role of retailing in the supply chain, retailing formats and locations, organizational structure and key positions, growth and expansion, consumer communication, and brands and private labels. Student also learn about productivity, operational and financial measures, purchasing and inventory control, pricing schemes, and merchandise layout and presentation. Students will take restricted electives toward completing a certificate as part of the program requirement in one of the following areas (9-16 credits): Accounting for Business Certificate, Human Resource Management (HRM) Certificate, Business Sales and Marketing Certificate, Entrepreneurship and Innovation Certificate, Management Advanced Certificate or a Certificate or Degree in any occupational/technical area.

APSCM Supply Chain Management

This program emphasizes both the theoretical knowledge and practical skills needed to succeed in both customer-facing and behind-the-scenes jobs in any type of logistics setting as products move from point-of-origin to point-of consumption. The curriculum was developed with input from industry experts and topics include the supply chain ecosystem, warehousing, operations, transportation, purchasing, reverse logistics, retail, inventory management, and analytics. Students also learn about supplier relationship management and leadership/management skills. As part of the program, students will be ready to take the tests needed to receive their CLA (Certified Logistics Associate) and CLT (Certified Logistics Technician) industry certification.

APST Surgical Technology

A surgical technologist (ST) serves the patient's interest primarily by providing assistance to the surgeon. The surgical technologist's primary task during an operative procedure is to anticipate the perioperative needs of the surgeon and surgical patient. Students in this program must be well grounded in the basic sciences, especially anatomy, microbiology, and pathophysiology. The surgical technologist contributes to global patient care by serving as a team member who monitors the surgical environment.

APOETT Transportation Technologies

In this AAS degree, students have a choice to follow any of three different specialty tracks that will prepare them for employment in the transportation industry. This option can be selected if an associate's degree is required for employment or advancement in a field. Each track features a variety of application level classes where students perform lab-oriented practice for the required skills in the automotive service related, auto body repair or motorcycle service fields. Students will learn using the latest technology, methods and tooling in their area of concentration. Students will select a specialized track in one of the following areas, each of which has its own associated certificated program(s): Auto Service, Auto Body or Motorcycle Service. The program prepares the student for the State of Michigan Mechanics Certification tests as well as the National Institute for Automotive Service Excellence (ASE) Certification Exams. Meet with a divisional advisor or faculty.

APWDDD Web Design and Development

This degree prepares you for the multi-faceted industry of Web design and development. The content in Web coding, Web programming, Web design, user experience and digital strategy provide a rich variety of classes that prepare you to enter the Web industry with a range of skills and knowledge. By focusing on one or more areas in the degree, you will gain skills that translate to marketable skills and career paths. Completion of one of the following certificates is required to complete this degree. Client-side Web Developer Certificate WEB 110 Web Development I WEB 210 Web Development II Any WEB, CIS or CPS course Interface Designer Certificate WEB 115 Interface Design I WEB 215 Interface Design II Any WEB or GDT course User Experience Designer Certificate WEB 113 Web User Experience I WEB 213 Web User Experience II Any WEB or GDT course Server-side Web Developer Certificate CPS 276 Web Programming Using Apache, MySQL, and PHP WEB 230 Advanced JavaScript Any WEB, CIS or CPS course Digital Strategist Certificate BMG 155 Business on the Internet WEB 133 Digital Strategy WEB 163 User Research and Project Management

APWLDF Welding Technology

The Welding Technology program offers specialized welding and fabrication instruction through theoretical, practical and technical learning objectives and strategies. The core curriculum specializes in welding and fabrication and delves into the expanses of welding technology as a whole. Students are first introduced to welding, cutting and fabrication safety; theory and fundamentals; and then transition to more advanced welding and fabrication processes and application, such as weld quality, inspection testing and repair techniques and automated welding and cutting systems and operations. Students who successfully complete this program will have learned a diverse skillset giving them opportunities to enter the workforce as entry-level welders, fabricators, field technicians and positions them for higher learning in welding engineering, welding education or materials science.

AABCM Broadcast Media Arts

The Broadcast Media Arts program provides hands-on training in the realm of radio and gives students experience in live production, script-writing, announcing and editing. The program course offerings emphasize the communication and technical skills needed for jobs in a variety of fields within the media industry, including advertising, public relations, broadcast journalism, project production and producing. This program prepares students to either enter directly into the workforce or transfer to a four-year institution.

AABATR Business Administration - Transfer

This program prepares students for transfer to a bachelor's of business administration degree program at a four-year college or university, where they will further improve their communication and interpersonal skills while developing a specialty in an area of business. Check with an advisor for information on transferring to a specific college.

AACMG Construction Management

This program prepares students for entry-level jobs in the construction industry as well as for transfer to a bachelor's degree program in construction management at a four-year college or university. Students who transfer will continue developing the skills needed to work for construction contractors, engineering/architectural firms, public agencies, or trade associations in positions such as office engineer, field engineer, safety engineer, project engineer, foreman, estimator, scheduler, expeditor, quality control engineer, inspector, material representative or independent contractor. The program transfers to Eastern Michigan University. In addition to the required courses within the degree program, students may transfer additional courses taken at WCC that will be applied to technical, business and math/science requirements for the bachelor's degree program at Eastern Michigan University.

AACJ Criminal Justice

This program helps prepare students for jobs in the courts and in corrections (such as probation and parole) as well as state and federal law enforcement. Most, but not all, of these jobs require at least a bachelor's degree and students can complete their first 3 years at WCC before transferring to other four-year schools such as EMU for their final year.

AADVP Digital Video Production

The Associate in Arts Degree in Digital Video Production provides students with specialized training to develop proficiency in advanced and professional video production. Emphasis is placed on integrating content creation with Web skills. Students should choose the appropriate faculty for academic advising based on their last name: Dan Kier (A-M), Matt Zacharias (N-Z).

AAECED Early Childhood Education

The program prepares students to transfer into an early childhood education program at a four-year college or university. The first two years of instruction in a bachelor's degree program in an early childhood education major is covered. The program includes the general education courses that prepare students for the state-mandated basic skills tests for teachers in the State of Michigan. Requirements vary by college, so students should obtain the current curriculum for the college to which they are transferring.

AAELEM Elementary Education

This program prepares students to transfer into an elementary education program at a four-year college or university. The first two years of instruction in a bachelor's degree program in elementary education is covered. The program includes the general education courses used for most elementary education programs in Michigan, that prepare students for the state-mandated basic skills tests. Requirements may vary among colleges so students should obtain the current curriculum from the college to which they are transferring and talk to an undergraduate advisor early in their studies. Curriculum and admission requirements are available on most colleges' Web sites.

AAFS Film Studies

In this program, students will be introduced to film as a medium of artistic expression and persuasion. Students will critically study motion pictures covering a variety of eras, cultures and genres. They will be introduced to the various elements of the creative process involved in film making such as narrative, acting, mise-en-scene, editing, cinematography and sound. Students will develop the skills necessary to critically and technically evaluate one of the most dynamic and influential art forms of the past 100 years.

AAFAA Fine Arts

This Associate of Art in Fine Arts Degree is a transfer degree designed to be the first two years of a Bachelors of Fine Art (BFA) degree and/or a Bachelors of Art Education (BAE) degree. Students will develop fine art drawing skills, learn 2D and 3D design elements and principles, and color expression skills that are necessary to be successful in completing a BFA or BAE degree. This degree also prepares students who are seeking careers/positions as a fine artists; those artists who are seeking work with community art education programs; gallery managers; professional studio internships; art studio teaching assistants; and those who wish to work as apprentices in community theater set designs.

AAGS Global Studies

Associate of Arts Liberal Arts Transfer in Global Studies will aid students in the development of an open, inclusive, international perspective through the study of human cultures, history, and language. This degree will provide students with the basic international and intercultural understanding that is applicable in the university and in the workplace, as well as prepare them for entry into a degree program at a four-year academic institution.

AAHUST Human Services

This program prepares students for a job as a substance abuse, hospice, case, psychiatric, or social services aide in settings such as schools, rehabilitation centers, and mental health clinics or as a staff member in a community/neighborhood center. The program provides skills students will need to work on a one-to-one basis or in groups to help people cope with problems. The program also prepares students to transfer to a bachelor's degree program where they will continue developing skills for a career in the field of social work. The program transfers to Eastern Michigan University and Madonna University.

AAJOUR Journalism

This program prepares students to transfer to a four-year institution and major in journalism. Four specialty courses provide a solid background in journalism-related content. Students in the program will gain invaluable experience in areas of a career in journalism.

AALAT Liberal Arts Transfer

This program allows students to design a program of study to meet individual needs, and is a good option for students who are undecided about a major, or simply want to explore various areas in the arts and social sciences. This program allows for customization of coursework to meet the requirements of the transfer college or university. A counselor will assist in developing a program of study that meets all of the College's graduation requirements. A counselor can also help students determine interests, career and educational goals, as well as provide transfer and career information. Major Concentrations (1-5) Complete 15 credits from the following: ANT, ARB, ART, CHN, COM, DAN, DRA, ECO, ENG, FRN, GEO, GRM, HST, HUM, JRN, MUS, PHL, PLS, PSY, SOC, SPN and YOG. Communication Concentration (COM) COM 102 Interpersonal Communication COM 160 Voice and Articulation COM 183 Persuasion COM 210 Nonverbal Communication COM 225 Intercultural Communication

AAPSPL Paralegal Studies/Pre-Law

This program prepares students for entry-level positions or further study in the field of law. Entry-level paralegal positions are available in legal offices such as corporate, prosecuting and public defense in addition to some courts. Under the supervision of an attorney, paralegals may assist with research, court filings, documentation and depositions. Students who wish to continue their education may continue on to a bachelor's degree or a Juris Doctorate degree.

AASECO Secondary Education

This program prepares students for transfer into a bachelor's degree program in secondary education at a four-year college or university. The program covers the first two years of instruction, including the general education courses, used by most secondary education programs in Michigan, which prepare students for the state-mandated basic skills tests. Requirements may vary among colleges. Students should obtain the current curriculum from the college to which they are transferring and talk to an undergraduate advisor early in their studies. Curriculum and admission requirements are available on most colleges' Web sites.

AATCD Technical Communication

In this program, students explore the technical communication process in detail and develop skills in audience analysis, project management, technical writing and editing, document design and usability testing. Using tools of the technical communication profession, students prepare content for print and online delivery, develop screencast training modules, learn how to conduct a formal job search and create professional portfolios to showcase their skills. The Technical Communication Associate in Arts degree is designed for students transferring to a four-year university and seeking a Bachelor of Arts degree. The General Education requirements fulfill both Washtenaw Community College's requirements and the MTA Transfer requirements.

ASCSPJ Computer Science: Programming in Java

This program prepares students to transfer to Eastern Michigan University to complete a bachelor's degree in Computer Science or Applied Computer Science and to pursue careers in computer science fields such as computer systems programming and analysis, software development and maintenance, and applications programming.

ASCNSV Construction Supervision

This program gives apprentice and journey-level members of the articulated union building trade apprenticeship programs the opportunity to apply their apprenticeship training and trade-related experience toward an associate's degree in Construction Supervision. In addition to the courses in Construction Supervision, students will complete general education courses and receive nontraditional credit for their work experience and apprenticeship. Students must complete an apprenticeship program concentration in plumbing, pipefitting, HVAC, sprinkler fitting, ironworking, bricklaying, tile setting or other approved union building trade. Upon completion of this, students should apply for prior learning credit evaluation of their apprenticeship experiences to meet the apprentice program concentration requirement (19-26 credits). Architectural and Ornamental Ironworker (AOIW) IWA 120 IWA 122 IWA 131 IWA 161 IWA 201 IWA 224 IWA 265 Brick and Block Laying Apprenticeship (BBLA) BAC 100 BAC 101 BAC 102 BAC 110 BAC 111 BAC 112 BAC 210 BAC 211 BAC 212 BAC 213 HVAC Specialty (HVTC) UAE 140 UAE 142 UAE 144 UAE 146 UAE 148 UAE 150 UAE 152 UAE 154 UAE 156 UAE 158 Journeyman Ironworker (JMIW) IWA 120 IWA 122 IWA 131 IWA 141 IWA 155 IWA 161 IWA 172 IWA 201 IWA 224 IWA 272 Metal Building Erector (MTBE) IWA 120 IWA 122 IWA 131 IWA 161 IWA 172 IWA 201 IWA 224 IWA 235 Pipefitter Specialty (PIPE) UAF 102 UAF 120 UAF 122 UAF 124 UAF 126 UAF 128 UAF 130 UAF 132 UAF 134 UAF 136 Plumber Specialty (PLUM) UAP 100 UAP 102 UAP 104 UAP 106 UAP 108 UAP 110 UAP 112 UAP 114 UAP 116 UAP 118 Reinforcing Ironworker (REIW) IWA 120 IWA 122 IWA 141 IWA 201 IWA 224 IWA 241 Rigger/Machinery Mover (RGMM) IWA 120 IWA 122 IWA 151 IWA 155 IWA 191 IWA 201 IWA 224 Sprinkler Fitter Specialty (SPRF) UAR 160 UAR 162 UAR 164 UAR 166 UAR 168 UAR 170 UAR 172 UAR 174 UAR 176 UAR 178 Tile Mechanics (TILM) BAC 100 BAC 101 BAC 102 BAC 120 BAC 121 BAC 122 BAC 220 BAC 221 BAC 222 BAC 223

ASCT Construction Technology

The Residential Construction program teaches students how to build a home from the ground up. The program offers a balance of classroom theory and hands on training. Students will also learn how to start up their own construction business.

ASENVS Environmental Science

This program is designed to prepare students to deal with environmental issues and concerns from a global point of view. Students will focus on physical and natural science as well as understanding the social science perspective. The program integrates biology, chemistry and geology and leads to an associate in science degree which should transfer to four-year institutions following the MTA guidelines. Students will have first-hand lab experiences studying environmental problems from a scientific perspective as well as proposing and implementing solutions to sustainability. The program prepares students for careers in resource management, waste management, sustainability, environmental consultation and other related fields.

AESCI Exercise Science

The Exercise Science program is designed to prepare students for employment at the entry level in health and fitness-related occupations and/or for higher education by training in the sciences that relate to physical activity, health, fitness, nutrition, wellness, and weight control. Completion of the two-year degree will prepare students for the ACSM certification exams for personal trainer and/or health/fitness instructor. The AS degree in Exercise Science from WCC is designed to prepare students for transfer to a four-year institution that offers degrees in sports medicine-exercise science, kinesiology, movement science, and physical education. Individuals that transfer to four-year institutions in these fields (and in some cases go beyond the four-year degree) can be expected to find employment in a wide variety of occupations, including (but not limited to) physician, physician's assistant, physical therapist, physical therapist assistant, research scientist, fitness manager, worksite wellness coordinator, exercise specialist, clinical exercise physiologist, coach, physical education teacher, and other exercise-related positions.

ASGMS General Studies in Math and Natural Sciences

This program allows students to design a program of study to meet their individual needs. This may be a good option if students are undecided about a major and want to explore a variety of discipline areas with a concentration in math and natural sciences. The program also allows students to customize their coursework to the requirements of the senior college or university to which they are transferring. Students should begin by meeting with a counselor who will assist them in developing a program of study that meets all of the College's graduation requirements. A counselor can also help students determine their interests and career and educational goals as well as provide transfer and career information. Math/Science Concentration Complete a concentration in math or science 15 credit hours from no more than two disciplines chosen from Biology, Chemistry, Environmental Science, Geology, Math or Physics (A minimum of 6 credits at the 200 level is strongly recommended). Students transferring to EMU should select from the following WCC courses: BIO 161, BIO 162, BIO 208, BIO 215, BIO 227, BIO 228; CEM 105, CEM 111, CEM 122, CEM 140, CEM 211, CEM 222; ENV 101, ENV 105; GLG 100, GLG 103, GLG 104, GLG 114, GLG 276; MTH 191, MTH 192, MTH 197, MTH 293, MTH 295; PHY 111, PHY 122, PHY 211, PHY 222. Please see an advisor to select courses that will meet the requirements of the college to which you are transferring. Concentration 2 Complete a second concentration. Select 9 credits from no more than two disciplines listed below (A minimum of 3 credits at the 200 level is strongly recommended). Select from Anthropology, Arabic, Art, Astronomy, Biology, Chemistry, Chinese, Communication, Computer Information Systems, Computer Networking Technology, Computer Science, Computer Systems Security, Computer Systems Technology, Criminal Justice, Dance, Drama, Economics, English, Environmental Science, French, Geography, Geology, German, Health Science, History, Humanities, Math, Music, Philosophy, Physics, Political Science, Psychology, Sociology or Spanish.

ASHPP Health Program Preparation

This program is designed for students who plan to pursue a health-related degree program at WCC or Bachelor of Science in Nursing (traditional or accelerated) or other health-related program at another college or four-year institution. The student will complete the common healthcare program prerequisites as outlined in the catalogs for local Michigan colleges.

ASINDT Industrial Training

This program gives indentured journeymen of the United Association or Ironworkers, the opportunity to apply their work as certified apprentice instructors toward an associate in science degree in Industrial Training. Students will complete the general education courses, five summer instructor training sessions, and receive prior learning credits for experience in an area of specialization such as plumbing, pipefitting, HVAC, sprinkler fitting and ironworking.

ASISPC Information Systems: Programming in C++

This program prepares students to transfer to complete a bachelor's degree in Business Administration with a major in Computer Information Systems. Undergraduates and graduates of CIS programs are prepared to create and maintain information systems for organizations, manage information systems projects, and develop strategies for effective use of enterprise information resources.

ASMSAS Math and Science

This program prepares students to transfer to a four-year college or university to complete a bachelor's degree in actuarial science, biology, chemistry, math, or pharmacy. The program will give students a solid foundation in math and science. Students should obtain program requirements and transfer equivalencies from the college to which they are transferring. Complete the requirements for one of the following concentrations. These concentrations may also list courses used to meet General Education requirements. Biology/Pre-Medicine (BMED) CEM 111 General Chemistry I CEM 122 General Chemistry II CEM 211 Organic Chemistry I CEM 222 Organic Chemistry II Elective: BIO 111, BIO 208, BIO 215, BIO 227, BIO 228 or BIO 237 Chemistry/Pre-Medicine (CMED) CEM 111 General Chemistry I CEM 122 General Chemistry II CEM 211 Organic Chemistry I CEM 222 Organic Chemistry II MTH 197 Linear Algebra Mathematics (MATH) MTH 160 Basic Statistics MTH 191 Calculus I MTH 192 Calculus II MTH 197 Linear Algebra MTH 293 Calculus III MTH 295 Differential Equations Pre-Actuarial Science (PPAS) ECO 211 Principles of Economics I ECO 222 Principles of Economics II MTH 191 Calculus I MTH 192 Calculus II MTH 197 Linear Algebra MTH 293 Calculus III Pre-Pharmacy (PPHA) Two Restricted Electives in Biology (see below) CEM 211 Organic Chemistry I CEM 222 Organic Chemistry II PHY 111 General Physics I PHY 122 General Physics II Biology Restricted Electives for Pre-Pharmacy (PPHA): BIO 111, BIO 161, BIO 162, BIO 208, BIO 237, BIO 215, BIO 227 or BIO 228 Optional Transfer Courses for Pre-Pharmacy (PPHA): MTH 160, MTH 192, along with other Biology restricted electives. See a program advisor to select appropriate Biology courses.

ASPET Pre-Engineering Science Transfer

This program addresses the increasing need of students pursuing STEM fields, specifically engineering. Students in this program will have their coursework pre-planned with specific courses laying the groundwork for successful transfer to a four year engineering program.

CPAS Addiction Studies

This program is designed for professionals interested in pursuing Certified Alcohol and Drug Counseling (CADC) certification through the State of Michigan. Courses focus on knowledge and skills necessary for working with clients with substance abuse disorders. This program will fulfill the educational requirements needed for CADC. Additional requirements for work experience and supervision must be met outside of this program.

CPCTOM Computed Tomography (CT)

The Computed Tomography (CT) program is a post-associate advanced certificate program that is designed for registered radiologic technologists (ARRT), radiation therapists (ARRT), and nuclear medicine technologists (ARRT or NMTCB). This program offers the didactic and clinical experience that will provide students with the knowledge and skills that are required to become an entry-level computed tomography technologist. The curriculum is based on the recommended American Society of Radiologic Technology (ASRT) computed tomography guidelines. Upon successful completion of the Computed Tomography program, students are eligible to take the ARRT post-primary certification examination in computed tomography.

CPMRIP Magnetic Resonance Imaging (MRI)

The Magnetic Resonance Imaging (MRI) Program is a post-associate advanced certificate program that is designed for registered radiologic technologists (ARRT), radiation therapists (ARRT), Sonographers (ARRT or ARDMS) and nuclear medicine technologists (ARRT or NMTCB). This program offers the didactic and clinical experience that will provide students with the knowledge, skills, and attitudes that are required to become an entry-level magnetic resonance imaging

technologist. The curriculum is based on the recommended American Society of Radiologic Technology (ASRT) magnetic resonance imaging guidelines. Upon successful completion of the MRI program, students are eligible to take the ARRT post-primary certification examination in magnetic resonance imaging.

CPMAM Mammography

The Mammography program is a post-associate advanced certificate that is designed for ARRT registered radiologic technologists. This program prepares students to perform screening and diagnostic mammography procedures using dedicated mammography equipment. The curriculum is based on the recommended American Society of Radiologic Technology (ASRT) mammography guidelines and includes both didactic and clinical education. Upon successful completion of the Mammography program, students are eligible to take the ARRT post-primary certification examination in mammography. In an effort to accommodate working radiologic technologists, this program will be offered in a blended-format.

TR01G4ANID 3D Animation Arts: Game Art /EMU Simulation, Animation & Gaming BS

This program prepares students for transfer to a bachelor of science program at Eastern Michigan University where they will further develop their technical knowledge and skills in simulation, animation and gaming. Students should check with an advisor for information on transferring.

TR01B8ACCT Accounting/EMU BBA with any Business Major

This program prepares students for transfer to a bachelor of business administration degree program at Eastern Michigan University, where they will further improve their communication and interpersonal skills while developing a specialty in accounting, economics, finance, management, or some other aspect of business. Students should check with an advisor for information on transferring.

TR11B2ACCT Accounting/Wayne State Multiple Business Degrees BS

This program prepares students for transfer to a bachelor's of science degree program in Business Administration at Wayne State University, where they will further improve their communication and interpersonal skills while developing a specialty in accounting, finance, management, marketing or some other aspect of business. Students should check with an advisor for information on transferring.

TR01O5ASRV Automotive Service/EMU Technology Management BS

The Technology Management degree program at Eastern Michigan University is designed for transfer students with an associate of applied science degree. The interdisciplinary curriculum provides the necessary foundation to meet the changing needs of management and leadership in a variety of fields. Students should check with an advisor for information on transferring.

TR01O6ATT Automotive Test Technician/EMU Technology Management BS

The Technology Management degree program at Eastern Michigan University is designed for transfer students with an associate of applied science degree. The interdisciplinary curriculum provides the necessary foundation to meet the changing needs of management and leadership in a variety of fields. Students should check with an advisor for information on transferring.

TR01U4BPA Baking and Pastry Arts and Management/EMU Technology Management BS

The Technology Management degree program at Eastern Michigan University is designed for transfer students with an associate of applied science degree. The interdisciplinary curriculum provides the necessary foundation to meet the changing needs of management and leadership in a variety of fields. Students should check with an advisor for information on transferring.

TR01F2BCM Broadcast Media Arts/EMU Communication or Comm, Media & Theatre Arts BA

This program prepares students for transfer to a bachelor of arts or science degree program at Eastern Michigan University, where they will further improve their communication and interpersonal skills in personal, professional and public contexts. Students should check with an advisor for information on transferring.

TR01Z1BCM Broadcast Media Non-Occu/EMU Communication or Comm, Media & Theatre Arts BA

This program prepares students for transfer to a bachelor of arts degree program at Eastern Michigan University, where they will further improve their skills in communication, media and theatre arts. Students should check with an advisor for information on transferring.

TR01B7BATR Business Administration-Transfer/EMU Business Administration BBA

This program prepares students for transfer to a bachelor's of business administration degree program at Eastern Michigan University, where they will further improve their communication and interpersonal skills while developing a specialty in accounting, economics, finance, management, or some other aspect of business. Students should check with an advisor for information on transferring.

TR09B2BATR Business Administration-Transfer/Ferris Business Admin. Professional Trk BS

This program prepares students for transfer to a bachelor of science in business administration professional track degree program at Ferris State University, where they will further improve their communication and interpersonal skills while developing a specialty in accounting, economics, finance, management, or some other aspect of business. Students should check with an advisor for information on transferring.

TR04B2BATR Business Administration-Transfer/Northwood University Management BBA

This program prepares students for transfer to a bachelor's of business administration degree program at Northwood University, where they will further improve their communication and interpersonal skills while developing a specialty in accounting, economics, finance, management, or some other aspect of business. Students should check with an advisor for information on transferring.

TR11B1BATR Business Administration-Transfer/Wayne State Multiple Business Degrees BS

This program prepares students for transfer to a bachelor's of science degree program in Business Administration at Wayne State University, where they will further improve their communication and interpersonal skills while developing a specialty in accounting, finance, management, marketing or some other aspect of business. Students should check with an advisor for information on transferring.

TR01B2BOAD Business Office Admin-Law Option/EMU Paralegal Studies BS

This program prepares students for transfer to a bachelor of science degree program at Eastern Michigan University. Students will learn the necessary skills to become a paralegal. Students should check with an advisor for information on transferring.

TR01B3BOAD Business Office Admin-Medical Admin Option/EMU Health Administration BS

This program prepares students for transfer to a bachelor of science degree program at Eastern Michigan University. It is designed to prepare those seeking a career in the administrative sector of the health care delivery system in any of its forms. Students should check with an advisor for information on transferring.

TR01D3CD Child Development/EMU Children and Families BS

This program prepares students for transfer to a bachelor's program in Children and Families at Eastern Michigan University. Students will further their training working with young children and developing relationships with families. Students should check with an advisor for information on transferring.

TR01C4CSPJ Computer Science: Program in Java/EMU Computer Science BS

This program prepares students to transfer to Eastern Michigan University to complete a bachelor's degree in Computer Science or Applied Computer Science and to pursue careers in computer science fields such as computer systems programming and analysis, software development and maintenance, and applications programming.

TR01C6CSN Computer Systems & Networking/EMU Technology Management BS

This program prepares students for transfer to a bachelor of science degree program in technology management at Eastern Michigan University, where they will further their skills in computer systems and networking. Students should check with an advisor for information on transferring.

TR01S1CMG Construction Management/EMU Construction Management BS

The program prepares students to transfer into a bachelor's of construction management degree at Eastern Michigan University. Students who transfer will continue developing the skills needed to work for construction contractors, engineering/architectural firms, public agencies, or trade associations in positions such as office engineer, field engineer, safety engineer, project engineer, foreman, estimator, scheduler, expeditor, quality control engineer, inspector, material representative or independent contractor. Requirements vary by college, so students should obtain the current curriculum for the college to which they are transferring.

TR13S1CNSV Construction Supervision/Rowan University Construction Management BA

The program prepares students to transfer into a bachelor's of construction management degree at Rowan University. Students who transfer will continue developing the skills needed to work as supervisors, managers, inspectors for construction sites, buildings and associated facilities. Requirements vary by college, so students should obtain the current curriculum for the college to which they are transferring.

TR01S2CT Construction Technology/EMU Technology Management BS

The Technology Management degree program at Eastern Michigan University is designed for transfer students with an associate degree. The interdisciplinary curriculum provides the necessary foundation to meet the changing needs of management and leadership in a variety of fields. Students should check with an advisor for information on transferring.

TR01C1CJ Criminal Justice/EMU Criminology and Criminal Justice BS

This program helps prepare students for jobs in the courts and in corrections (such as probation and parole) as well as state and federal law enforcement. Most, but not all, of these jobs require at least a bachelor's degree and students can complete their first three years at WCC before transferring to Eastern Michigan University. Students should check with an advisor for information on transferring.

TR01C2CJ Criminal Justice/EMU Public Safety Administration BS

This program helps prepare students for jobs in the courts and in corrections (such as probation and parole) as well as state and federal law enforcement. Most, but not all, of these jobs require at least a bachelor's degree and students can complete their first three years at WCC before transferring Eastern Michigan University. Students should check with an advisor for information on transferring.

TR01C3CJ Criminal Justice/EMU Technology Management BS

The technology management program is designed for transfer students with an associate of applied science degree. The interdisciplinary curriculum provides the necessary foundation to meet the changing needs of management in a variety of fields including criminal justice. Students should check with an advisor for information on transferring.

TR10C1CJ Criminal Justice/Madonna Criminal Justice BS

This program helps prepare students for jobs in the courts and in corrections (such as probation and parole) as well as state and federal law enforcement. Most, but not all, of these jobs require at least a bachelor's degree and students can complete their first three years at WCC before transferring to Madonna University. Students should check with an advisor for information on transferring.

TR01U3CULA Culinary Arts and Management/EMU Hotel and Restaurant Management BS

This program helps prepare students for jobs in the area of culinary arts and hospitality management. Some jobs require at least a bachelor's degree and students can complete their first three years at WCC before transferring to Eastern Michigan University. Students should check with an advisor for information on transferring.

TR01G2DVP Digital Video Production/EMU Technology Management BS

The Technology Management degree program at Eastern Michigan University is designed for transfer students. This interdisciplinary curriculum provides the necessary foundation to meet the changing needs of management and leadership in a variety of fields. Students should check with an advisor for information on transferring.

TR01D4ECED Early Child Ed AA/EMU Children and Families BS

This program prepares students for transfer to a bachelor's program in Children and Families at Eastern Michigan University. Students will further their training working with young children and developing relationships with families. Students should check with an advisor for information on transferring.

TR01D1ECED Early Child Ed AA/EMU Elem Ed Early Childhood Comprehensive BS

The program prepares students to transfer into an early childhood education program at Eastern Michigan University. The first two years of instruction in a bachelor's degree program in an early childhood education major is covered. The program includes the general education courses that prepare students for the state-mandated basic skills tests for teachers in the State of Michigan. Requirements vary by college, so students should obtain the current curriculum for the college to which they are transferring.

TR08E1ENVS Environmental Science/Siena Heights Environmental Science BS

This program prepares students to transfer to a bachelor of science program in Environmental Science. The four-year degree prepares students for a diverse set of career options. Students should check with an advisor for information on transferring.

TR01X1ESCI Exercise Science/EMU Exercise Science BS

The Exercise Science program prepares students for transfer to a bachelor's of exercise science, an interdisciplinary program based on the medical sciences, at Eastern Michigan University. Students should check with an advisor for information on transferring.

AGGSD General Studies

This degree is designed for students who wish to earn an associate degree by creating a personalized program. It offers two pathways for completion: a pathway to four-year transfer or a pathway to employment in their chosen career. Students will design this 60 credit, multi-disciplinary program in conjunction with an academic advisor and can include coursework from all areas of the college; occupational and academic.

TR01G1GRD Graphic Design/EMU Bachelor of Fine Arts-Graphic Design Conc BFA

This program prepares students for transfer to a bachelor's of fine arts with graphic design concentration degree program at Eastern Michigan University where they will further improve their skills in graphic and publication design. Students should check with an advisor for information on transferring.

TR01G3GRD Graphic Design/EMU Communication Technology (Graphic Applications) BS

This program prepares students for transfer to a bachelor of science degree program in Communication Technology (Graphic Applications) at Eastern Michigan University where they will further improve their skills in graphic design. Students should check with an advisor for information on transferring.

TR01S3HVCR Heating, Ventilation, Air Condition & Refrig/EMU Technology Management BS

The Technology Management degree program at Eastern Michigan University is designed for transfer students with an associate of applied science degree. The interdisciplinary curriculum provides the necessary foundation to meet the changing needs of management and leadership in a variety of fields. Students should check with an advisor for information on transferring.

TR01H1HUST Human Services/EMU Bachelor of Social Work BSW

This program prepares students for a job as a substance abuse, hospice, case, psychiatric, or social services aide in settings such as schools, rehabilitation centers, and mental health clinics or as a staff member in a community/neighborhood center. The program provides skills students will need to work on a one-to-one basis or in groups to help people cope with problems. The program also prepares students to transfer to a bachelor's degree program where they will continue developing skills for a career in the field of social work at Eastern Michigan University. Students should check with an advisor for information on transferring.

TR01I1ISPC Information Systems: Program in C++/EMU Computer Information Systems BBA

This program prepares students to transfer to Eastern Michigan University to complete a BBA degree in Computer Information Systems. Undergraduates and graduates of CIS programs are prepared to create and maintain information systems for organizations, manage information systems projects, and develop strategies for effective use of enterprise information resources. Students should check with an advisor for information on transferring.

TR01O2LAT Liberal Arts Transfer/EMU Communication Major BS

This program prepares students for transfer to a bachelor of arts or science degree program at Eastern Michigan University, where they will further improve their communication and interpersonal skills in personal, professional and public contexts. Students should check with an advisor for information on transferring.

TR01O4LAT Liberal Arts Transfer/EMU Communication, Media and Theatre Major BS

This program prepares students for transfer to a bachelor of arts or science degree program at Eastern Michigan University, where they will further improve their skills in communication, media and theatre arts. Students should check with an advisor for information on transferring.

TR01B5MNGD Management/EMU Business Administration BBA

This program prepares students for transfer to a bachelor's of business administration degree program at Eastern Michigan University, where they will further improve their communication and interpersonal skills while developing a specialty in accounting, economics, finance, management or some other aspect of business. Students should check with an advisor for information on transferring.

TR11M1METR Mechatronics Multiple Tech/Wayne State Multiple Engineering Tech Degrees BS

This program prepares students for transfer to a bachelor's degree in the engineering technology areas at Wayne State University where they will further improve their skills. Students should check with an advisor for information on transferring.

TR01M1METR Mechatronics/EMU Technology Management BS

The Technology Management degree program at Eastern Michigan University is designed for transfer students with an associate of applied science degree. The interdisciplinary curriculum provides the necessary foundation to meet the changing needs of management and leadership in a variety of fields. Students should check with an advisor for information on transferring.

TR01N1NURS Nursing, Registered/EMU BSN Completion

This program is designed for students transferring to Eastern Michigan University where they will earn a BSN in the Nursing Completion program. Students are prepared for challenging and exciting jobs in all settings of health care, from the hospital to home care. Students will gain proficiency in technical aspects of nursing care, such as medication administration, treatments and procedures, and use of medical technology. Students should check with an advisor for information on transferring.

TR01N2NURS Nursing, Registered/EMU Technology Management BS

This program is designed for students who are interested in Eastern Michigan University's Technology Management program. The curriculum provides the necessary foundation to meet the changing needs of management in the health field. Students should check with an advisor for information on transferring.

TR05N1NURS Nursing, Registered/UM (Flint) Nursing BSN

This program prepares students for challenging and exciting jobs in all settings of health care, from the hospital to home care. Students will gain proficiency in technical aspects of nursing care, such as medication administration, treatments and procedures, and use of medical technology. Students will also earn credits that transfer to UM- Flint's BSN program. Students should check with an advisor for information on transferring.

TR01O1OST Occupational Studies/EMU Technology Management BS

The Technology Management degree program at Eastern Michigan University is designed for transfer students with an associate of applied science degree. The interdisciplinary curriculum provides the necessary foundation to meet the changing needs of management in a variety of fields. Students should check with an advisor for information on transferring.

TR01J1PSPL Paralegal Studies/Pre-Law/EMU Paralegal BS

This program prepares students to transfer to a bachelor of science program in Paralegal. The four-year degree prepares students for a diverse set of career options. Students should check with an advisor for information on transferring.

TR01T1PTA Physical Therapist Assistant/EMU Health Administration BS

This program prepares students for transfer to a health administration bachelor's of science degree program at Eastern Michigan University. Students are trained for health administration jobs in nursing homes, home health agencies, outpatient facilities, hospitals, public health agencies, health maintenance organizations and many other health care settings. Students should check with an advisor for information on transferring.

TR01O7PDT Powertrain Development Technician/EMU Technology Management BS

The Technology Management degree program at Eastern Michigan University is designed for transfer students with an associate of applied science degree. The interdisciplinary curriculum provides the necessary foundation to meet the changing needs of management and leadership in a variety of fields. Students should check with an advisor for information on transferring.

TR01R1RAD Radiography/EMU Health Administration BS

This program prepares students for transfer to a bachelor's of science degree program in health administration at Eastern Michigan University. Students are trained for health administration jobs in nursing homes, home health agencies, outpatient facilities, hospitals, public health agencies, health maintenance organizations and many other health care settings. Students should check with an advisor for information on transferring.

TR01R2RAD Radiography/EMU Technology Management BS

This program is designed for students who are interested in Eastern Michigan University's Technology Management degree program. The curriculum provides the necessary foundation to meet the changing needs of management in the health field. Students should check with an advisor for information on transferring.

TR01B6RM Retail Management/EMU Apparel, Textiles and Merchandising BS

This program helps prepare students for jobs in the area of apparel, textiles and merchandising. Some jobs require at least a bachelor's degree and students can complete their first three years at WCC before transferring to Eastern Michigan University. Students should check with an advisor for information on transferring.

TR01B9RM Retail Management/EMU BBA with any Business Major

This program prepares students for transfer to a bachelor of business administration degree program at Eastern Michigan University, where they will further improve their communication and interpersonal skills while developing a specialty in accounting, economics, finance, management, or some other aspect of business. Students should check with an advisor for information on transferring.

TR01B4SCM Supply Chain Management/EMU Business Administration BBA

This program prepares students for transfer to a bachelor's of business administration degree program at Eastern Michigan University, where they will further improve their communication and interpersonal skills while developing a specialty in business. Students should check with an advisor for information on transferring.

TR01V1WDDD Web Design and Development/EMU Communication Technology BS

This program prepares students for transfer to a bachelor's of communication technology degree program at Eastern Michigan University, where they will further their web design or development coursework. Students should check with an advisor for information on transferring.

TR01W4WLDF Welding Technology/EMU Technology Management BS

This program prepares students to transfer to a bachelor of science program in Technology Management at Eastern Michigan University. Students will apply welding skills to the industrial and technical environments. Students should check with an advisor for information on transferring.