Miller Career & Technology Center

2018-2019

...the real world connection
AGE AND CREDIT REQUIREMENTS

Courses are open to KISD students classified as juniors or seniors for 2018-2019. Certain courses with internships have an age requirement before participating in the off-campus training. All students must complete the application process to be considered for acceptance. Students should plan to attend MCTC for at least three credits. Most career courses are two credits. Two credit courses will be paired with a core credit to fit the student’s course request/needs. Availability of courses is subject to scheduling.

The priority application deadline is February 9, 2018.

TRANSPORTATION

Students may provide their own transportation or ride the MCTC/OAC/RHS bus. Morning bus riders attending MCTC will be transported directly from pick-up points to MCTC utilizing the MCTC/OAC/RHS bus route. Students will be transported back to their home campus when MCTC dismisses the morning session. Bus riders who attend MCTC beginning with 4th period or after will be transported from home campuses to MCTC. After school is dismissed, these bus riders will be transported directly to drop-off points utilizing the MCTC/OAC/RHS bus route, not back to their home campus. Students enrolled in internships and/or certain rotation programs may be required to provide their own transportation. Student may not carpool with another student to an internship. Those programs are indicated by the car icon, ✈️.

COMMITMENT

All of the career courses at MCTC represent a commitment to attend MCTC for a FULL SCHOOL YEAR. MCTC career courses include a coherent sequence of curriculum for two semesters.

AVAILABILITY OF COURSES

Listing of a course in this publication does not guarantee the course will be taught during the 2018-2019 school year. Decisions as to whether a particular course will be taught are based upon the number of students requesting the course and the availability of personnel.

LIMITED ENROLLMENT

Courses at MCTC have limited enrollment. If demand for a course exceeds the maximum allowed enrollment, students’ acceptance into a program may be determined by the following factors: completed prerequisites, 2017-2018 discipline and unexcused absences, cumulative GPA.

COURSE FEES

Some MCTC courses have fees. Details on all fees will be discussed at the Orientation in May for students who are accepted into MCTC for the 2018-2019 school year.

Business & Industry

Agriculture, Food & Natural Resources 8147V Veterinary Medical Applications 8148V Vet Assisting


Arts, A/V Technology and Communications 8207V Digital Audio I 8208V Digital Audio II 8205V Film I 8206V Film II

Business, Management & Administration 0135VIR Online Independent Study & Mentorship PreAP 0136VIR Online Independent Study & Mentorship PreAP/PGST 8550V PACE PreAP 8551V PACE PreAP/PGST

Hospitality & Tourism 8371V Culinary Arts 8375V Practicum in Culinary Arts 8382V Hospitality Services 8369V Practicum in Hospitality Services

Information Technology 8664V Computer Maintenance 8649V Cyber Security I 8650V Internetworking Technologies I (Cisco Academy IT Essentials PC Hardware & Software) 8649V Cyber Security II 8655V Internetworking Technologies I (Cisco Academy Introduction to Networks) 8675V Internetworking Technologies Lab 8656V Internetworking Technologies II 8676V Internetworking Technologies Lab I (Cisco Academy Routing & Switching Essentials) 8676V Internetworking Technologies Lab II (Cisco Academy Routing & Switching Essentials)

Manufacturing 8557V Manufacturing Engineering I 8558V Manufacturing Engineering II 8559V Practicum in Manufacturing Engineering

Transportation, Distribution & Logistics 8700V Auto Tech I Maintenance & Light Repair 8710V Auto Tech II Automotive Service

Public Services

Education & Training 8960V Instructional Practices in Education & Training 8991V Practicum in Education & Training

Health Science 8092V Clinical Rotation 8093V Practicum in Health Science 8092V Dental Assisting 8085V EMT Basic 8086V Pharmacy Tech 8087V Pharmacology

Human Services 8743V Introduction to Cosmology 8744V Cosmology I 8751V Cosmology Design & Color Theory 8752V Cosmology II

Law, Public Safety, Corrections & Security 8970V Law Enforcement I 8972V Court Systems & Practices 8976V Law Enforcement II 8976V Law Enforcement II 8982V Special Topics in Social Studies I 8983V Special Topics in Social Studies II

Civic Engagement 8988V Special Topics in Social Studies II

Criminal Justice I 8970V Law Enforcement I 8972V Court Systems & Practices 8976V Law Enforcement II

Criminal Justice II 8976V Law Enforcement II 8982V Special Topics in Social Studies I 8983V Special Topics in Social Studies II

STEM

Science, Technology, Engineering & Mathematics 8860V Practicum in STEM

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One way to earn a Business & Industry endorsement is through completion of four or more CTE credits, including at least two courses in the same career cluster and at least one advanced CTE credit from within the specific career cluster. Advanced courses are noted in the descriptions.

### Business & Industry

8147V Veterinary Medical Applications (two credits)
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grades: 11-12
Veterinary Medical Applications provides an introduction to animal care, handling, health, safety, sanitation, surgical preparation, anatomy, physiology, and medical terminology. Students demonstrating required skills/competencies are eligible to take the Certified Veterinary Assistant (CVA) exam offered through the Texas Veterinary Medical Association (TVMA) in late May. Students who successfully pass the CVA exam receive a Practicum Pending Experience (PPE) certificate and will be eligible to obtain CVA certification after properly documenting an additional 300 hours of clinical experience.

8148V Vet Assisting (two credits)
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Students must provide their own transportation.
Grade: 12
Vet Assisting includes a non-paid internship at a veterinary clinic or animal shelter in the spring where students may acquire hours towards the clinical experience needed to obtain CVA certification. These additional 300 hours must be supervised by a Doctor of Veterinary Medicine (DVM) or Licensed Veterinary Technician (LVT) and completed within one calendar year of taking the CVA exam. Veterinary courses DO NOT fulfill the 4th year science requirement. Vet Assisting is an advanced course for the Agriculture career cluster.

### Agriculture, Food & Natural Resources

8030V Architectural Design II (two credits)
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grades: 11-12
Architectural Design II is a hands-on, project based course that engages students with the knowledge and skills for a career in architecture and construction, as well as a foundation towards a post-secondary degree in the architecture field. Students learn advanced knowledge of design, history, techniques and tools related to the production drawings, renderings, and scaled models for commercial or residential architecture. Students become familiar with college and industry Autodesk software for design and document solutions for course projects. Architectural Design II is an advanced course for the Architecture & Construction career cluster.

8001V Practicum in Architectural Design (two credits)
Prerequisite: Architectural Design I or II and Algebra II or concurrent enrollment in Algebra II.
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Students must provide their own transportation. Grades: 11-12; seniors have priority
This project-based course builds upon architectural design foundations and increases understanding of working drawings, construction techniques, and building code requirements. The design process will be applied to architectural projects as students create architectural design solutions using software, illustrations, and modeling techniques. Students may have the opportunity to participate in job shadowing, and/or internships. Practicum in Architectural Design is an advanced course for the Architecture & Construction career cluster.
Arts, A/V Technology & Communications

8027V Digital Audio I (one credit fall semester)
8028V Digital Audio II (one credit spring semester)
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grade: 11-12
Students will explore audio careers in the areas of radio and television broadcasting, video and film production, animation and game design, music production and live sound. Students will develop an understanding of the audio industry with a technical emphasis on production and critical listening skills. Instruction includes the use of Digital Audio Work Stations (DAWS) using an Avid platform for recording and mixing, and the use of microphones. Students will have entry level audio technician skills upon completion.

Digital Audio I & II are advanced courses for the Arts, A/V Technology & Communications career cluster.

8005V Film I (two credits)
Prerequisite recommended: Video Production
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grades: 11-12
This course is designed to provide initial training for entry-level employment in movie, video and television production careers. Students receive instruction in the operation of different types of cameras, audio, technique, digital editing, and film production using an Avid platform. Students learn how to create media graphics for film and video, lighting, script writing, direction, production, special effects, signal control and monitoring equipment, set design, safety, and career opportunities.

8035V Film II (two credits)
Prerequisite: Film I
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grade: 12
Film II students receive advanced instruction in the operation of different types of cameras, mastery of media graphics, electronic editing, color correction, audio, techniques, lighting, script writing, direction, production, special effects, signal control and monitoring equipment, as well as set design, and safety.

Film II is an advanced course for the Arts, A/V Technology & Communications career cluster.

LIVE ACTION MEDIA BROADCAST SYSTEM
Students in the MCTC Digital Audio and Film courses have the opportunity to train, and if successful, to work as a member of the Live Action Media Broadcast System (LAMBS) crew which operates the video board at Katy ISD stadiums. Students apply to be part of the crew for each football game to run the five live-action cameras and control functions such as instant replay, commercials, splash video graphics, or serve as Technical Director.

Business, Management & Administration

0136VIR Online Independent Study & Mentorship PreAP (one credit)
0137VIR Online Independent Study & Mentorship PreAP/GT (one credit)
Availability of seats in this course is limited. Priority will be given to upper classmen.
Co-requisite: Enrollment in an advanced ELA course (PreAP or AP)
Grades: 10-12
This course, based on the Texas Performance Standards Project for gifted/talented students, offers a nontraditional learning experience to students who have the ability to create innovative products or performances. Students will develop a product proposal, compile a portfolio, conduct in-depth research, work with a mentor from the business or professional community and prepare for a public presentation of their product or performance at the end of the school year to be evaluated by an audience that includes experts in the field. Students work with a mentor to create a product related to their topic; the product is required to have real-world application and tangible documentation.

This course is taken outside of regular school hours.

8550V PACE PreAP (one credit)
8551V PACE PreAP/GT (one credit)
Prerequisites: Identified as Gifted and Talented. Students with a 3.8 GPA or higher are also eligible, pending availability of space in the course.
Co-requisite: AP English IV or AP English IV GT at MCTC
Students must provide their own transportation.
Grade: 12
Students will participate in a non-paid internship program for a minimum of six hours a week with a professional to experience the demands and expectations of the profession first hand. This internship experience will provide students the opportunity to reinforce, apply and transfer their knowledge and skills. Students will research, design and construct a project on a topic related to their career interests under the supervision of a mentor. Students will submit progress reports, a final written report and they will defend their solutions to a panel of outside reviewers before the end of the school year.

8550V PACE PreAP (two credits)
8551V PACE PreAP/GT (two credits)
Prerequisites: Identified as Gifted and Talented. Students with a 3.8 GPA or higher are also eligible, pending availability of space in the course.
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grade: 12
Students will participate in a non-paid internship program for a minimum of six hours a week with a professional to experience the demands and expectations of the profession first hand. This internship experience will provide students the opportunity to reinforce, apply and transfer their knowledge and skills. Students will research, design and construct a project on a topic related to their career interests under the supervision of a mentor. Students will submit progress reports, a final written report and they will defend their solutions to a panel of outside reviewers before the end of the school year.
Information Technology

8664V Computer Maintenance (Cisco Academy IT Essentials PC Hardware & Software) (two credits)
Prerequisite: Algebra II or concurrent enrollment in Algebra II
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grades: 11-12
Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot issues using system tools and diagnostic software. Topics include Microsoft Windows Vista 7 and 8 operating systems, laptops and mobile devices, networking, printers, security and advanced troubleshooting. This course prepares students for the CompTIA A+ exam.
Computer Maintenance is an advanced course for the Information Technology career cluster.

8648V Cyber Security I (one credit fall semester)
8649V Cyber Security II (one credit spring semester)
Prerequisite: Algebra II or concurrent enrollment in Algebra II
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grades: 11-12
Develop a foundational understanding of cybersecurity and how it relates to information and network security. Students are introduced to characteristics of cybercrime, security principles and framework, technologies, and procedures to defend networks. Through interactive multimedia content, lab activities, and multi-industry case studies, students build technical and professional skills to pursue careers in Cybersecurity. Cyber Security I & II are advanced courses for the Information Technology career cluster.

8363V Hospitality Services - Hotel & Restaurant Management (two credits)
8366V Practicum in Hospitality Services (two credits)
Prerequisite: Hospitality Services-Hotel & Restaurant Management for the Practicum
Co-requisite: Enrollment in an additional course credit at MCTC
Grades: 11-12
Students must provide their own transportation. Students explore a career in hotel and restaurant management through a partnership with the Wyndham Houston West Energy Corridor Hotel and other local Katy/Houston hotel properties. Students gain first-hand experience by rotating as trainees in Executive Offices, Food and Beverage, Guest Services and Facilities Management. Occupationally specific instruction includes the ServSafe® training and certification exam. Students exiting the program have gained the skills and knowledge to be employed in the industry and have acquired a solid basis for a college education in hospitality, culinary or business. Practicum students participate in a non-paid internship at an approved hotel, restaurant, club, or travel agency. Practicum in Hospitality Services is an advanced course for the Hospitality & Tourism career cluster.

8371V Culinary Arts (two credits)
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grades: 11-12
Occupationally specific instruction includes knife skills, industry-specific vocabulary, hands-on practice in all areas of food production specific to a restaurant and catering kitchen. Students will also focus on learning skills for restaurant management and service.

8373V Practicum in Culinary Arts (two credits)
Prerequisite: Culinary Arts
Co-requisite: Enrollment in an additional course credit at MCTC
Grade: 12
Practicum students are expected to produce more complex dishes appropriate for restaurant service at the on-site bistro and for competition. Students operate the Old Town Bistro. Practicum in Culinary Arts is an advanced course for the Hospitality & Tourism career cluster.
Information Technology

8655V Internetworking Technologies I (Cisco Academy Introduction to Networks) (one credit-taken concurrently with Internetworking Technologies I Lab)
Prerequisite: Algebra II or concurrent enrollment in Algebra II
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grades: 11-12

8657V Internetworking Technologies Lab
(one credit-taken concurrently with Internetworking Technologies I)
Prerequisite: Algebra II or concurrent enrollment in Algebra II
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grade: 11-12

Introduction to the architecture, structure, functions, components, and models of the internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of either course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. After successful completion of the course, students will receive a Certificate of Completion from the Cisco Academy. Students earning an 80 or above on the Cisco final exam in the spring receive a Cisco Level 1 Networking certificate of Completion.

Internetworking Technologies is an advanced course for the Information Technology career cluster.

8656V Internetworking Technologies II (Cisco Academy Routing & Switching Essentials) (one credit-taken concurrently with Internetworking Technologies II Lab)
Prerequisite: Internetworking Technologies I and Lab
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grade: 12

The architecture, components, and operations of routers and switches in a small network is defined as Routing & Switching Essentials. The course introduces and then teaches students how to configure a router and switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with IPv4, IPv6, single area and multi-area OSPF, virtual LANs, and Inter-VLAN routing in both IPv4 and IPv6 networks. After successful completion of the course, students will receive a Certificate of Completion from the Cisco Academy. Students prepare to take the 100-101 Interconnecting Cisco Networking Devices Part I (ICND1) Certification exam. Upon successful completion of the ICND1 exam students will be awarded the Certified Entry Networking Technician (CCENT) certification.

Internetworking Technologies II is an advanced course for the Information Technology career cluster.

Manufacturing

8057 Manufacturing Engineering I (one credit fall semester)
8058 Manufacturing Engineering II (one credit spring semester)
Prerequisite: Principles of Applied Engineering, Algebra II or concurrent enrollment in Algebra II
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grade: 11-12

This hands-on simulation based program deals with theory and application that includes analysis, research, design and development of systems, processes, machines, tools, and equipment in manufacturing. Students have the opportunity to gain knowledge and understanding of hydraulics, pneumatics, mechanical fabrication, AC/DC systems, and apply those learned processes to a simulated manufacturing environment. Students are introduced to how Computer Aided Design (CAD), Computer Numerical Controls (CNC), and robotic technologies are utilized in Manufacturing.

Manufacturing Engineering I & II are advanced courses for the Manufacturing career cluster.

Manufacturing Engineering II is an FHSPE third math credit option. This course can be taken for elective credit only by students who have earned credit for another course identified as an FHSPE third math credit option.

8059V Practicum in Manufacturing Engineering (two credits)
Prerequisite: Manufacturing Engineering I & II
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grade: 12

The Practicum is a capstone experience to give students a practical application of Mechatronics, Computer Numerical Controls (CNC), robotic technologies, and manufacturing processes. Students will focus on applying previously studied manufacturing knowledge and skills to real world and simulated manufacturing environmental issues.

Practicum is an advanced course for the Manufacturing career cluster.

Business & Industry
A Public Services endorsement requires completion of four or more CTE credits, including at least two courses in the same career cluster and at least one advanced CTE credit from within the specific career cluster. Advanced courses are noted in the descriptions.

**Public Services**

**Transportation, Distribution & Logistics**

**Auto Tech I Maintenance & Light Repair**
- Prerequisite: Concurrent enrollment in an additional course credit at MCTC
- Grade: 11-12
- Students enrolled in Auto Tech receive training in the proper use of various tools, equipment and information systems currently used in the automobile repair industry, along with training in service and repair of all of the major vehicle systems.

**Auto Tech II-Automotive Service**
- Prerequisite: Auto Tech I
- Co-requisite: Concurrent enrollment in an additional course credit at MCTC
- Grade: 12
- Auto Tech II includes advanced level training in the service and repair of all the major vehicle systems. Students will be required to furnish work style clothing, footwear and safety glasses that meet program standards.

**Instructional Practices in Education & Training**

**Instructional Practices in Education & Training**
- Prerequisite recommended: Principles of Education & Training
- Co-requisite: Concurrent enrollment in an additional course credit at MCTC
- Grades: 11-12
- Instructional Practices in Education provides juniors and seniors with the opportunity to explore the exciting career of teaching through classroom instruction and field experience in a school setting. Students observe and experience various aspects of teaching as they rotate through local Katy ISD schools and facilities. The non-paid internship provides students with experience in child development and principles of effective teaching practices. Course content includes leadership concepts and skills, employability skills, information on careers in education, and child growth and development. Instructional Practices in Education & Training addresses topics related to children in Pre-Kindergarten through 8th grade.

**Practicum in Education & Training**
- Prerequisite: Instructional Practices in Education & Training
- Co-requisite: Concurrent enrollment in an additional course credit at MCTC
- Grade: 12
- Practicum in Education & Training provides students with more in-depth experience in the classroom. Lesson creation, classroom management skills, and teaching methods are studied. The Practicum provides a broader internship experience, including child development centers and other education facilities.

**Instructional Practices in Education & Training is an advanced course for the Education & Training career cluster.**
Health Science

8085V EMT Basic-Practicum in Health Science (two credits)
Prerequisite: Principles of Health Science, Health Science Theory, and proof of acceptable, current tuberculosis test and flu vaccination (administered after August 2018).
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grade: 12
Clinical Rotation provides students practical applications of previously learned knowledge and skills through classroom and clinical settings. Students may rotate through various departments of area hospitals, community health centers and medical offices while observing professional healthcare providers. Students are required to follow all immunization guidelines of the clinical rotation site. Practicum courses are advanced courses for the Health Science career cluster.

8092V Dental Assisting - Practicum in Health Science (two credits)
Prerequisite: Principles of Health Science and Health Science Theory
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Grade: 12
Dental Assisting prepares students to support dental professionals with skills practice and clinical experiences. Students learn to sterilize instruments, operate suction devices, process X-rays and take impressions for dental fixtures. In addition to clinical duties, administrative tasks such as scheduling appointments, patient records and ordering supplies are incorporated. Through lecture, hands-on skills practice and clinical experience the students are prepared for the Certified Dental Assistant exam. Practicum courses are advanced courses for the Health Science career cluster.

8085V EMT Basic-Practicum in Health Science (two credits)
Prerequisite: Principles of Health Science, Health Science Theory, and proof of acceptable, current tuberculosis test and flu vaccination (administered after August 2018).
Grade: 12
EMT Basic provides instruction in emergency medical care to persons with severe injuries or illness. Through lecture, hands-on skills practice and clinical experience the students are prepared to be tested in national mandated patient care skills and the EMS National Registry examination at the Emergency Medical Technician-Basic level. Students may sit for the National Registry of Emergency Medical Technicians exam prior to the age of 18; however, they will not be able to apply for certification in the state of Texas until their 18th birthday. Practicum courses are advanced courses for the Health Science career cluster.

8086V Pharmacy Tech Practicum in Health Science (two credits-taken concurrently with Pharmacology)
8097V Pharmacology (one credit-taken concurrently with Pharmacy Tech)
Prerequisite: Chemistry, Principles of Health Science, Health Science Theory, and social security number required to register as a technician in training. Pharmacies may require a specific clean drug test result to begin the internship.
Grade: 12
These courses prepare students to support pharmacists by providing assistance during patient consultation, counter dispensing operations and prescription preparation, keeping records, and performing a wide range of duties for both retail and hospital based pharmacies. Included is an overview of the pharmacokinetics and pharmacodynamics of prescription and nonprescription medications, emphasizing drug classifications, drug action, drug administration, ethical and legal issues, and safety. Students may become Registered Pharmacy Technicians after successfully passing the optional certification exam and completing the registration process through the Texas State Board of Pharmacy. Students may earn Sterile Compounding and Aseptic Technique (SCAT) certification, which is necessary for hospital pharmacies. Students may participate in a non-paid internship during the spring semester at an approved Pharmacy. Practicum courses are advanced courses for the Health Science career cluster.
Human Services

8743V Introduction to Cosmetology (one credit taken concurrently with Cosmetology I)
8744V Cosmetology I (two credits taken concurrently with Introduction to Cosmetology)
8751V Cosmetology Design & Color Theory (one credit taken concurrently with Cosmetology II)
8752V Cosmetology II (two credits taken concurrently with Design & Color Theory)
Prerequisite: Cosmetology I for Cosmetology II
Grades: 11-12

Instruction includes all phases of Cosmetology, including manicures and pedicures, design perm wraps, the latest trend haircuts, and traditional haircuts. Students practice on manikins to gain experience in preparation for servicing clients in Cosmetology II.

Students are expected to accrue over 500 hours in Cosmetology I to be on track to accumulate the 1000 clock hours required by the end of Cosmetology II. Students will not be able to accrue all needed hours during the regular school day, but will have the opportunity to clock hours on Tuesdays and Wednesdays during the school year from 3:00 pm until 6:00 pm. Juniors may accumulate hours from 7:00 am until 3:00 pm on specified additional days after the end of the regular school year following successful completion of Cosmetology I. Cosmetology II is an advanced study designed to prepare students for the licensing exam and to master skills learned the previous year working with both manikins and clients.

The Texas Department of Licensing Regulation (TDLR) will grant eligibility to take the licensing exam to students who have completed high school graduation requirements, clocked 1000 hours prior to graduation, and successfully completed both Cosmetology I and Cosmetology II. This program meets all requirements for a Cosmetology license, issued by TDLR after students pass both the written and practical portions of the exam, show proof of required TDLR documentation and proof of a high school diploma. Closed toe shoes are required.

Cosmetology II is an advanced course for the Human Services career cluster.

Law, Public Safety, Corrections & Security

Criminal Justice I

8970V Law Enforcement I (one credit taken concurrently with Court Systems & Practices)
8972V Court Systems & Practices
(credit taken concurrently with Law Enforcement I)
Co-requisite: Concurrent enrollment in additional course credit at MCTC
Grades: 11-12

Law Enforcement I is a study of the history and philosophy of criminal justice and its ethical considerations, crime is defined, its nature and impact are explored. This course includes an overview of the criminal justice system, law enforcement and the court systems, a study of prosecution and defense, trial processes, corrections, and penal systems. Court Systems & Practices is a study of the judiciary in the criminal justice system, structure of the American court system, prosecution, right to counsel, pretrial release, grand juries, adjudication processes, types and rules of evidence, and sentencing. Students will participate in mock trials.

Criminal Justice II

8976V Law Enforcement II (one credit taken concurrently with Special Topics)
8982V Special Topics in Social Studies I Civic Engagement
(one-half credit fall semester-taken concurrently with Law Enforcement II)
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Students must provide their own transportation.
Grade: 12

Law Enforcement II introduces the student to American crime in a historical perspective, social policy affecting crime, impact and crime trends, social characteristics of specific crimes, prevention of crime, and theories related to the causes of crime. Civic Engagement provides in-depth research of existing not-for-profit organizations, hands-on learning through community-based service projects. Additionally, students will have a foundation for which they may further their involvement in philanthropic endeavors. Students will volunteer for approximately 20 hours of service within the community.

Criminal Justice II is an advanced course for the Law, Public Safety, Corrections & Security career cluster.
One way to earn a STEM endorsement is through completion of four or more CTE credits, including at least two courses from the STEM career cluster, and at least one advanced CTE credit from within the STEM career cluster. Advanced courses are noted in the course description.

**Science, Technology, Engineering & Mathematics**

**8660V Practicum in STEM** (2 credits)
Prerequisite: Algebra II or concurrent enrollment in Algebra II and Engineering Science
Co-requisite: Concurrent enrollment in an additional course credit at MCTC
Students must provide their own transportation.
Grades: 12

This project-based course is designed for students to apply STEM concepts and principles in a classroom and workplace environment. Students will focus on planning, managing and providing scientific research and professional standards and services, as required by business and industry. Students use software in project development and design, and may have the opportunity to participate in job shadowing, mentoring and/or internships.

Practicum is an advanced course for the STEM - CTE career cluster.
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