CAREER ACADEMY
PROGRAMS, SCHEDULE, AND DESCRIPTIONS
2019-2020

MCC's Career Academy program is designed to provide high school juniors and seniors with opportunities to explore various career fields and get a jumpstart on their postsecondary education. MCC Career Academies increase student awareness in various career fields prior to high school graduation so more informed career choices can be made. Students gain practical skills for specific career areas, knowledge of safety procedures, job-seeking skills, interpersonal skills for the workplace, and exposure to a college environment while earning both high school and college credit.

Academies and Locations

Butler AG, 2831 N County Rd 20th Ave, Fremont, NE
  Diesel Technology *Maximum 10 students*

Fremont Center (FRC), 9th & Broad St
  Criminal Justice - *Maximum 18 students*

  Information Technology (IT) - *Maximum 16 students*

  Introduction to Health Care - *Maximum 18 students*

  Introduction to the Trades/Manufacturing/Internship - *Maximum 15 students*

The Welding Technology Academy at Fremont High School is only open to Fremont High students.

  Welding Technology - *Fremont High School Students only.*

Metropolitan Community College reserves the right to cancel or modify courses. Tuition is based on the rate for the 2018-19 Academic Year for Nebraska High School residents. MCC's tuition and fees schedule is subject to change without prior notice and at the discretion of the MCC Board of Governors

Contents

Students must abide by the MCC Calendar. This has special meaning for seniors since they may have to continue attending classes beyond their graduation date or beyond their last day of class at their high school.

CRIMINAL JUSTICE - SENIORS ONLY

Fremont Center – 9th & Broad Streets

Year 1 Student 2019 - 2020

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2019					
	CRIM 1010	Introduction to Criminal Justice	4.5	1:25p-3:10p	T, Th
December 2019 – February, 2020					
	CRIM 2030	Police and Society	4.5	1:25p-3:10p	T, Th
March – May, 2020					
	CRIM 1020	Introduction to Corrections	4.5	1:25p-3:10p	T, Th
		TOTAL CREDIT HOURS	**13.5**		

CRIM 1010* – Introduction to Criminal Justice This course is an overview of the history, development, and philosophies of crime control within a democratic society. It examines the criminal justice system with emphasis on the police, the prosecution and the defense, the courts and the correctional agencies.

CRIM 1020 – Introduction to Corrections This course outlines corrections as a systematic process, showing the evolving changes within institutional and community-based corrections. Topics include the history of corrections, the influence of social thought and philosophy on the development of corrections, the rights of the incarcerated inmate, and the duties of the correctional officer.

CRIM 2030 – Police and Society** *Prerequisite: CRIM 1010* This course examines the role of the police in relationship to the duties of law enforcement and their policing in a diverse society. Specific topics include key demographic trends related to the growth of multicultural communities. Also covered are key issues associated with immigration and how those issues affect law enforcement in their everyday job.

*Must pass with a C or better to continue.

Books Needed: *Books are subject to change, dependent upon the course criteria and without prior notice.
Please go to Follett Bookstore's web site at www.efollett.com start typing in Metropolitan Community College. For classes held at the South Campus select South Omaha; for classes held at the Sarpy Center select Sarpy; for classes held at the Applied Technology Center or Fort Campus select Omaha; for classes at the Elkhorn Campus or Fremont Center select Elkhorn.

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METROPOLITAN
Community College

DIESEL TECHNOLOGY
Butler AG
2831 N County Rd 20th Ave, Fremont, NE

Year 1 Student 2019 - 2020

Dates	Course	Title	Credits	Times	Scheduled Days
July 19 – July 31, 2019					
	DESL 0900	Basics of Diesel Mechanics	1.5	8:00-11:30a	M, T, W, TH
September – November, 2019					
	DESL 1000	Diesel Preventive Maintenance	4	11:30a-3:00p	T, TH
December, 2019 – February, 2020					
	DESL 1230	Diesel Engine Fundamentals	4	11:30a-3:00p	T, TH
March – May, 2020					
	DESL 2100	Heavy Duty Drivetrain	4	11:30a-3:00p	T, TH
		TOTAL CREDIT HOURS - per group	**13.5**		

1. Students are required to attend the two week summer session for screening into the fall program.
2. Good attendance is required.
3. Shirt(s) will be required; purchase ONLINE. (For 2017/2018 year, cost was $12.00/shirt)
4. Steel toed boots, gloves, and safety glasses are required.

COURSE DESCRIPTIONS

DESL 0900 – Basics of Diesel Mechanics This class provides the student with an overview of the profession of diesel mechanics. In addition, it gives the beginning student hands-on experience with tasks designed to enhance mechanical ability, as well as the opportunity to explore the broad areas of a career in diesel technology.

DESL 1000 – Preventive Maintenance This course is the study of truck and equipment preventive maintenance and inspection. Focus will be emphasized in shop tools, equipment and practices to start a career in diesel technology.

DESL 1230 – Diesel Engine Fundamentals *DESL 1000 is a prerequisite and the student must earn a "C" or better.* This course is the study of diesel engine principles and component identification. Students will gain knowledge through lecture and entry-level hands-on engine assembly and disassembly.

DESL 2100 – Heavy Duty Drivetrain *DESL 1000 is a prerequisite and the student must earn a "C" or better..* This course is the study of medium and heavy-duty truck clutches, transmissions, drivelines, and differentials. Focus will be emphasized on operation, repair and maintenance of these systems.

Books Needed: *Books are subject to change, dependent upon the course criteria and without prior notice.
All classes listed above need: CDX Medium/Heavy Duty Diesel System Txtbk & Engine Txtbk + (2yr. Online Access) ISBN Kit #9781284110586 (available at our MCC bookstore only). **2017 cost $464.75 + tax**.

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INTRODUCTION TO HEALTH CARE

Fremont Center – 9th & Broad Streets

Year 1 Student 2019 - 2020

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2019					
	HIMS 1111	Healthcare Careers	4.5	7:30 a - 9:00a	T, Th
December 2019 – February, 2020					
	HIMS 1120	Medical Terminology I*	4.5	7:30a - 9:00a	T, Th
March – May, 2020					
	HIMS 1130	Medical Terminology II*	4.5	7:30a - 9:00a	T, Th
		TOTAL CREDIT HOURS	**13.5**		

COURSE DESCRIPTION:

HIMS 1111 - Healthcare Careers

This course provides an overview of the healthcare field. Topics include healthcare delivery systems, history of healthcare, careers in healthcare, personal qualities of healthcare workers, principles of teamwork, time management, human growth and development, cultural diversity, safety issues, and computer technology in healthcare settings. Current issues in healthcare are addressed in order to enrich students' understanding and breadth of knowledge of the U.S. healthcare system and the roles and functions of various healthcare professionals.

HIMS 1120 Medical - Terminology I

This course assists students in establishing a solid foundation of medical terminology and abbreviations and introduces prefixes, suffixes, and word roots used in the language of medicine. The course emphasizes medical vocabulary as it applies to the anatomy, physiology, and pathology of the human body. Students study the functioning of the body systems, clinical/surgical procedures, and therapies and examine normal, pathological, clinical, and laboratory considerations in order to best prepare for entrance into the healthcare professions. The course also emphasizes correct spelling and pronunciation.

HIMS 1130 - Medical Terminology II

This course is a continuation of HIMS 1120. It presents additional body systems, specialty medical areas, clinical procedures, laboratory tests, medical terms, and abbreviations. Students study practical applications with case reports, operative and diagnostic tests, and laboratory and x-ray reports. The course also emphasizes correct spelling and pronunciation.

Books Needed: *Books are subject to change, dependent upon the course criteria and without prior notice.

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INFORMATION TECHNOLOGY (I T)
Fremont Center – 9th & Broad Streets

Year 1 Student 2019 - 2020

Dates	Course	Title	Credits	Times	Scheduled Days
September – October, 2019					
	INFO 1002	Introduction to Information Technology	4.5	7:15-9:05a	M, T, W, TH
October – November, 2019					
	INFO 1311	Web Page Creation	4.5	7:15-9:05a	M, T, W, TH
December – January, 2020					
	INFO 1003	Introduction to Computer Programming	4.5	7:15-9:05a	M, T, W, TH
January – February , 2020					
	INFO 1524	COBOL I	5.0	7:15-9:05a	M, T, W, TH
March – May, 2020					
	INFO 1213	Database Fundamentals	4.5	7:15-9:05a	M, T, W, TH
		TOTAL CREDIT HOURS	**23**		

All students must have successfully completed a basic computer technology class.

COURSE DESCRIPTIONS

INFO 1002 – Introduction to Information Technology. This course explores current topics and disciplines in the field of Information Technology. Working in a collaborative environment, students apply project management concepts, ethics, and security to investigate application development, IT management, applied technology, and IT network support.

INFO 1003 – Introduction to Computer Programming. This course provides the beginning programmer with a firm foundation in concepts used in structured and object-oriented computer programming. The course emphasizes the use of mathematical problem solving and logic needed to understand a problem. Students use flowcharts, pseudo code, and algorithms to document logic as a solution to a programming problem. Students use current programming software to implement the logic as a computer program.

INFO 1023 - Networking Essentials
This course is the foundational networking course and prepares students for the advanced IT courses. The fundamentals of national and international networked communications, including standards, data communications, local area networking, wide area networking, virtual computing, and wireless communications are covered. WAN technologies and hardware as well as emerging data network technologies, mobile, and nomadic computing are also covered.

INFO 1311 – Web Page Creation
This course teaches students how to create basic websites using HTML and CSS specifications. It covers creating HTML pages that include links, images, tables, multimedia, and forms and discusses additional advanced features, such as implementing web interactivity using JavaScript and Java applets. Students use CSS to control the format and layout of web pages and learn about the advantages of using CSS when styling web content.

INFORMATION TECHNOLOGY cont'd.

INFO 1213 Database Fundamentals

Students are introduced to database operations using Microsoft Access. This course focuses on database concepts; creating and editing tables, queries, forms and reports; adding, editing, and filtering records; creating and editing one-to-many relationships; and importing and exporting data. Students must receive a C or better in this course to enroll in the Office Professional Capstone course.

Books Needed: *Books are subject to change, dependent upon the course criteria and without prior notice.

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INTRODUCTION TO THE TRADES/MANUFACTURING/INTERNSHIP (FRC)
Fremont Center – 9th & Broad Streets

Year 1 Student 2019 - 2020

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2019					
	INCT 1010	Introduction to the Trades II	6	9:45a-10:45a	M, T, W, TH, F
December 2019 – January, 2020					
	INCT 2050	Problem Solving	3	9:45a-10:45a	M, T, W, TH, F
January – April, 2020					
	INCT 2981	Internship	4	1:30p–3:30p	M, T, W, TH, F
		TOTAL CREDIT HOURS	**13**		

Additional Fees:

COURSE DESCRIPTIONS
INCT 1010 Introduction to the Trades II
This course is designed to introduce students to skills generally required for entry-level employment in the trades. Topics include basic safety, hand tools, power tools, construction math, print reading, rigging, communication, and employability skills.

INCT 2050 – Problem Solving This course builds troubleshooting expertise for maintenance professionals and decision-makers at all levels. It examines creative- and critical- thinking, problem-solving, and troubleshooting.

INCT 2981 – Internship Working in collaboration with Dream It! Do It! and the manufacturing industry, students will have paid internships available Monday through Friday.

Books Needed: *Books are subject to change, dependent upon the course criteria and without prior notice.
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WELDING TECHNOLOGY – Fremont High School
FREMONT HIGH SCHOOL STUDENTS ONLY

Year 1 Student 2019 - 2020 Fremont 1st Year Students

Dates	Course	Course Title	Credits	Times	Scheduled Days
August, 2019 – May, 2020					
	WELD 1100	Industrial Cutting Processes	3	BLK 1/BLK2	M-F
	WELD 1000	Print Reading & Layout for Welders I	3	BLK 1/BLK2	M-F
October, 2019 - December, 2019					
	WELD 1200	Gas Metal Arc Welding (MIG) - Steel I	3	BLK 1/BLK2	M-F
January, 2020 – March, 2020					
	WELD 2200	Gas Metal Arc Welding (MIG) - Steel II	3	BLK 1/BLK2	M-F
March – May, 2020					
	WELD 2240	Flux—Cored Arc Welding I	3	BLK 1/BLK2	M-F

TOTAL CREDIT HOURS   15

Block 1: 7:50 am - 9:18 am / Block 2: 9:25 am - 10:58 am

<u>**Tools and Materials**</u>**:** Students provide work boots and safety glasses. MCC will provide, on loan, most of the appropriate equipment and tools for each course. Students will be held responsible for lost and/or broken equipment and tools.

COURSE DESCRIPTIONS
WELD 1000 - Print Reading and Layout for Welders I This course focuses on print reading and basic drafting with major emphasis on print reading related to welding and fabrication.

WELD 1100 - Industrial Cutting Processes Students gain a working knowledge of oxy-fuel cutting (manual and machine), plasma cutting (manual and machine), and air carbon arc and plasma gouging.

WELD 1200 - Gas Metal Arc Welding (MIG) - Steel I This course uses the theory and techniques in basic gas metal arc welding to produce sound fillet welds and sound groove welds in both the flat and vertical positions. Students weld using short-circuit and spray modes of metal transfer.

WELD 2200 Gas Metal Arc Welding (MIG) - Steel II *Prerequisite: WELD 1200* This course is a continuation of GMAW - Steel I, including fillet and groove welds in the horizontal and overhead positions and the study of pulsed-spray transfer.

WELD 2240 - Flux-Cored Arc Welding I *Prerequisite: WELD 2200* This course covers gas-shielded and self-shielded flux-cored arc welding in the flat and vertical positions using semiautomatic equipment.

Books Needed: *Books are subject to change, dependent upon the course criteria and without prior notice.
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