

Metropolitan Community College Career Academies for Millard Students

In addition to the Millard Career Academies, Millard Public Schools participates in a partnership with Metropolitan Community College (MCC) to offer career academies on the MCC campuses. Millard students participate in MCC Career Academies along with students from other local school districts.

Students should consider their career interests when applying to participate in a MCC Career Academy. Similar to the Millard Career Academies, students will take classes that are not available in the traditional high school setting.

However, different from the Millard Career Academies, these accredited classes will be taught by MCC faculty. Also, while students will attend their Millard high school in the morning, they will travel to the specified MCC campus for their afternoon MCC Career Academy classes. Transportation is not provided and students are responsible for their own means of transportation to the MCC Career Academy courses.

Please refer to the information guide for exact start and stop times for each academy. The stop time of a MCC academy may impact a student's ability to participate in after school athletics and activities. Participation in a MCC Career Academy requires a one year commitment. Participants will earn credits toward high school graduation as identified in the 2018-2019 Millard Public Schools Curriculum Handbook and Registration Guide, page 121.

Eligibility:

- Must be a high school junior or senior
- Be at least 16 years of age at the beginning of the 2018-2019 school year;
- Submit one recommendation form completed by a teacher or counselor at their school
- Have parental consent for participation;
- Submit the completed application to the college by the application deadline, March 5, 2018
- Be responsible for transportation to the specified Metropolitan Community College Campus. Millard Public Schools will not provide transportation to Metropolitan Community College.

All district policies and procedures regarding release of student information will be followed.

Millard Public Schools will provide, on loan, the college textbooks specified by the MCC Career Academy instructor. There will be a fee charged for lost or damaged books.

Please refer to the attached application information.

Applications are due to Metropolitan Community College by March 5, 2018.



CAREER ACADEMY APPLICATION 2018-2019

COMPLETE AND SIGN THE FOLLOWING DOCUMENTS:

- ☀ Background Information and Applicant Questions
- ☀ Honor Statement
- ☀ Personal Recommendation Form
- ☀ Counselor Form
- ☀ Parent Information Form
- ☀ High School transcript

Please only return pages 3 - 8 and transcript.

REFERENCES

Please select a teacher or other adult to complete the Personal Recommendation Form.
Your high school counselor must complete the Counselor form.

To be considered for participation, these completed recommendations must be included with your application.

SELECTION

The selection process will be conducted by the MCC Career Academy Selection Committee. Selection will occur in March, and notification will be sent in April.

QUESTIONS

If you have questions about this program or application, please contact us at 531-622-2213.

Return completed application packet to:

Secondary Partnerships Office
Metropolitan Community College
PO Box 3777, FOC Building 7
Omaha, NE 68103-0777

APPLICATION DEADLINE: March 5, 2018

**Students must abide by the MCC Calendar: Whether or not the high school is out for that day.
Note to Seniors: The Career Academy schedule may require attending classes beyond the high school graduation date and/or beyond the last day of high school.**

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CAREER ACADEMY STUDENT APPLICANT BACKGROUND INFORMATION

Name: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Date of Birth: _____ S.S. _____

Grade in fall: _____ High School Name _____

Counselor Name: _____ Phone _____

Transportation: Own _____ Parent(s) _____ None _____ Driver's License Yes ___ No ___

Please rank the top three programs for which you would like to be considered (1=first choice, 2, 3, last choice)

Descriptions for Career Academy Available Programs 2018-2019 are at the end of this packet. Tuition is \$37 per credit hour for 2018 and is subject to change.

Fort Omaha Campus (FOC) 30th and Fort, Omaha			
<input type="checkbox"/> Electrical Technology <i>Maximum 12 students</i>	<input type="checkbox"/> Heating, Air Conditioning and Refrigeration (HVAC) <i>Maximum 12 students</i>	<input type="checkbox"/> Welding Technology <i>Maximum 12 students</i>	
	<input type="checkbox"/> Pre-Apprenticeship Plumbing <i>Maximum 12 students</i>		
South Omaha (SOC) 27th & Q, Omaha			
<input type="checkbox"/> Automotive Technology <i>(Driver's License required)</i> <i>Maximum 16 students</i>	<input type="checkbox"/> Certified Nursing Assistant (CNA) <i>Maximum 20 students</i>	<input type="checkbox"/> Emergency Medical Technician (EMT) <i>(Seniors Only)</i> <i>Maximum 12 students</i>	
Applied Technology Center (ATC) 10407 State St, Omaha			
<input type="checkbox"/> Auto Collision Technology <i>Maximum 10 students</i>	<input type="checkbox"/> Diesel Technology <i>Maximum 10 students</i>	<input type="checkbox"/> Fire Science Technology (FIST) <i>Maximum 12 students</i>	<input type="checkbox"/> Utility Line Technician
Elkhorn Valley (EVC), 204th & Dodge, Omaha	Omaha Community Playhouse (OCP) 6915 Cass	Sarpy Center (SRP) 91st & Giles	
<input type="checkbox"/> Digital Cinema/Filmmaking <i>Maximum 12 students</i>	<input type="checkbox"/> Theatre Technology <i>Separate application needed*</i> <i>Maximum 10 students</i>	<input type="checkbox"/> Criminal Justice <i>(Seniors Only)</i> <i>Maximum 20 students</i>	

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APPLICANT QUESTIONS

On a separate sheet of paper, please answer the following questions. Remember to use your best grammar and punctuation skills. Typed essays are preferred.

- 1) Are you on track to graduate with your class? **Yes** **No**. If no, why not.

- 2) The MCC Career Academy requires basic skills in math, reading and comprehension. Describe how you have the skills required to participate in the Career Academy. _____

 - a) What English class are you currently in and what is your grade? _____
 - b) What is the most recent math class you have taken and grade? _____

- 3) What helps you to be successful in high school?

- 4) Briefly discuss any part-time jobs (paid or unpaid), volunteer service, and/or job shadow experience that you have participated in which relates to the Career Academy program you choose. (For example: If you are applying for Fire Science, have you had any experience in this area?) What skills are you using in this job?

- 5) If you are accepted into the MCC Career Academy, attendance is **mandatory**. Any absences or tardies will be reported to your home school. If you have three (3) absences in a quarter, it could result in the instructor failing you.
 - a. Describe your school attendance/tardiness for the last two (2) years. If you have had more than three (3) absences per semester, give a brief explanation of why those absences occurred. (Examples: illness, out-of-town, sports events, etc.)

 - b. If necessary, what changes are you ready to make?

- 6) Provide any additional information as to why you feel you should be invited to participate in the Career Academy program.

Please list your school activities, church/temple and community activities, honors received, offices held, and/or courses or training you have completed which will aid us in evaluating your qualifications for the Career Academy.

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PARENT INFORMATION (to be completed by parent/guardian of applicant)

Parent(s) or guardian names with whom student resides: _____

Father's Name: _____ Daytime Phone: _____

Cell Phone: _____

If parent(s) address is different than student address, please list the parent(s) address below: _____

Address: _____ City _____ ZIP _____

Mother's Name: _____ Daytime Phone: _____

Cell Phone: _____

If parent(s) address is different than student address, please list the parent(s) address below: _____

Address: _____ City _____ ZIP _____

Guardian's Name: _____ Daytime Phone: _____

Cell Phone: _____

If Guardian's address is different than student address, please list the parent(s) address below: _____

Address: _____ City: _____ Zip: _____

Daytime Phone: _____ Work Phone: _____

Briefly explain why your child would be a good candidate for the MCC Career Academy:

STUDENT CERTIFICATION

I certify that the facts contained in this application are true and complete to the best of my knowledge and understand that, if selected for the MCC Career Academy, falsified statements may be grounds for removal.

I authorize investigation of all statements contained herein, the references listed in this application and all information concerning previous employers, and release all parties from liability for any damage that may result from furnishing the same to you.

I understand that as part of the work experience component of the MCC Career Academy, employers may require drug testing, insurance approval, and/or background checks.

I have read the attached information sheet and understand the high level of commitment that will be required on the part of both students and their parent(s)/guardian(s), if selected.

Student Signature

Date

Parent/Guardian Signature

Date

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READ and INITIAL!!

HONOR STATEMENT

Participation in the MCC Career Academy program requires a high level of commitment from the College, high school, students, and parents. This agreement acknowledges that students and their parents are entering into a relationship with the College built on honesty, ethical behavior, open communication and trust. A student is required to be at least 16 years of age to participate in an MCC Career Academy. All participants must adhere to the following list of guidelines: Initial each item.

- The student is required to attend all classes. Three absences per quarter will result in being dropped from the program.
- The student has access to an appeal process to review extenuating circumstances of absences and tardies at the college. During an appeal process, the student will continue to attend class.
- The student is expected to follow the Career Academy's calendar. In addition, the student is expected to follow MCC's inclement weather policies.
- The student is required to arrive in the classroom on time. At the College, each program has its own standards which students are to follow. A tardy is defined as no more than ten (10) minutes late. Leaving early results in a tardy or an absence. If employed in an internship, arriving late on the job will be subject to the rules of the employer.
- The student is required to provide his/her own transportation to and from the College.
- Students and parents are expected to follow the tuition payment schedule as established by the College.
- If an internship is required, a student must prepare for and accept job interviews and employment as recommended by the program. Failure to do so results in full withdrawal from the program.
- If an internship is required, the student is expected to be employed in the internship a minimum of 10-20 hours per week.
- The student is to behave in an ethical and professional manner at all times in the College and represent his/her high school and College in a way that denotes dignity and respect.
- The student must politely accept feedback from instructors, vocational advisors, college administrators, and internship employers and treat each situation as a positive learning experience.
- The student is required to immediately notify instructors, Secondary Partnerships Office, and high school counselors of problems and concerns while attending the College and/or internship. An intern cannot change jobs or quit without permission/notification of the employer, parent and Career Academy.
- The student is required to be drug free while attending the College. Appropriate action will be taken in accordance with MCC policies and procedures if substance use/abuse is suspected. Internship sites may require a drug test.
- The student is required to follow the dress code of his/her specific program area including protective clothing if necessary. Furthermore, individual classes and/or business sites may have a dress code which the student is expected to follow.
- Equipment provided by the Academy must be treated with respect and returned to the College at the end of the year in good condition. Lost or damaged equipment will result in replacement fines to be paid by the student.

Student's Name – Print

School

Student's Name – Signature

Date

Parent/Guardian Signature

Date

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COUNSELOR FORM

Student Name: _____

School: _____ Grade: _____

TO BE COMPLETED BY THE HIGH SCHOOL COUNSELOR: Provide name, phone number, and e-mail address of the school official who will serve as contact for issues, such as grading and attendance.

Signature of High School Counselor Print Name of Counselor Phone E-mail

The following checklist is provided for those who know the student well enough to give an accurate assessment of him/her.

High School Attendance	
# of classes completed out of # taken	
GPA	

Please feel free to make other comments that will indicate your estimation of this student's qualifications for this program.

Have there been any school interventions to help the student be successful?

This student is on track for graduation from this high school and is academically qualified for the MCC Career Academy. ___ Yes ___ No

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PERSONAL RECOMMENDATION FORM

Student Name: _____

Provide name, phone number, and e-mail address

Signature _____ Print Name _____ Phone _____ E-mail _____

How do you know the student? _____

The following checklist is provided for those who know the student well enough to give an accurate assessment of him/her. These attributes are very important to success at MCC.

	Below Average	Average	Above Average	Excellent (Top 10%)
Responsibility				
Attitude				
Effort				
Interpersonal Skills				
Personal Values and Ethics				

If you wish to give reasons for any of your ratings, please do so here. Often, an explanation for the significance of ratings is helpful during the selection process.

What would help this student be successful?

Please make other comments that will indicate your estimation of this student's qualifications for this program.

CAREER ACADEMY

PROGRAMS, SCHEDULE, AND DESCRIPTIONS

2018-2019

Metropolitan Community College's (MCC) 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.

CAMPUS LOCATIONS/PROGRAMS

Fort Omaha Campus (FOC) 30th and Fort, Omaha			
> Electrical Technology <i>Maximum 12 students</i>	> Heating, Air Conditioning and Refrigeration (HVAC) <i>Maximum 12 students</i>	> Welding Technology <u>1ST Year</u> <i>Maximum 12 students</i>	
	> Pre-Apprenticeship Plumbing <i>Maximum 12 students</i>		
South Omaha (SOC) 27th & Q, Omaha			
> Automotive Technology <i>(Driver's License required)</i> <i>Maximum 16 students</i>	> Certified Nursing Assistant (CNA) <i>Maximum 20 students</i>	> Emergency Medical Technician (EMT) <i>(Seniors Only)</i> <i>Maximum 12 students</i>	
Applied Technology Center (ATC) 10407 State St, Omaha			
> Auto Collision Technology <i>Maximum 10 students</i>	> Diesel Technology <i>Maximum 10 students</i>	> Fire Science Technology (FIST) <i>Maximum 12 students</i>	> Utility Line Technician
Elkhorn Valley (EVC), 204th & Dodge, Omaha	Omaha Community Playhouse (OCP) 6915 Cass	Sarpy Center (SRP) 91st & Giles	
> Digital Cinema/Filmmaking <i>Maximum 12 students</i>	> Theatre Technology <i>Separate application needed*</i> <i>Maximum 10 students</i>	> Criminal Justice <i>(Seniors Only)</i> <i>Maximum 20 students</i>	

MCC reserves the right to cancel or modify courses. Tuition is based on the rate for the 2017 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.

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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.

Fall Quarter 2018 18/FA	Labor Day Recess/College closed Classes begin Classes end	September 3 Sept. 4 Nov. 19	Monday Tuesday Monday
Winter Quarter 2018 - 2019 18/WI	Thanksgiving Day Recess/College closed Classes begin Last class day before Holiday Recess Holiday Recess/College closed Classes resume Martin Luther King Recess/College closed Classes end	Nov. 22 – 23 Dec. 3 Dec. 21 Dec. 25 - Jan. 1 Jan.5 Jan. 21 Feb. 25	Monday Friday Saturday Monday Monday
Spring Quarter 2019 18/SP	Classes begin Spring Recess/College closed Classes resume Classes end	Mar. 7 April 20-21 April 22 May 22	Thursday Saturday-Sunday Monday Wednesday

AUTO COLLISION TECHNOLOGY

Applied Technology Center – 10407 State

Year 1 Student 2018 - 2019

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2018					
	AUTB 1200	Non Structural Repair I	6	12:30 – 4:30	M, W
December, 2018 – January, 2019					
	AUTB 1040	Auto Collision Repair Welding	3	12:30 – 4:30	M, W
January – February, 2019					
	AUTB 2450	Collision Estimating I	3	12:30 – 4:30	M, W
March – April, 2019					
	AUTB 2300	Automotive Refinishing I	3	12:30 – 4:30	M, W
April – May, 2019					
	AUTB 1100	Structural Repair I	3	12:30 – 4:30	M, W
TOTAL CREDIT HOURS			18		

Year 2 Student 2018 - 2019 (students who took 1st year in 2017)

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2018					
	AUTB 1210	Non Structural Repair II	6	12:30 – 4:30	T, TH
December, 2018 – February, 2019					
	AUTB 2310	Automotive Refinishing II	6	12:30 – 4:30	T, TH
March – May, 2019					
	AUTB 1220	Non Structural Repair III	6	12:30 – 4:30	T, TH
TOTAL CREDIT HOURS			18		

Supplies: Shirt(s) will be required; purchase from instructor during first week of class.

COURSE DESCRIPTIONS

AUTB 1040 – Auto Collision Repair Welding Students learn techniques of oxy-acetylene cutting and welding for automotive applications. Students study and practice the theory and use of metal inert gas (MIG) welding, the plasma-cutting torch, and resistance welding in the repair of high-strength steel structural and nonstructural body components. In addition, this course provides practice in advanced automotive welding skills, including various types of position welds.

AUTB 1100 – Structural Repair I Students learn to analyze various types of vehicle damage, interpret dimension specification sheets, and select and set up various types of measuring systems used for damage analysis.

AUTB 1200 – Non Structural Repair I This course provides the fundamentals of shop safety, tool application, damage repair preparation, metal straightening techniques, and the use of body fillers in the repair of collision-damaged vehicles.

AUTO COLLISION cont'd

AUTB 1210 – Non Structural Repair II *Prerequisite: AUTB 1200.* This course continues to build skills acquired in the basic course. Students learn the techniques of door skin replacement and how to work with trim and hardware. Other related subjects are covered.

AUTB 1220 – Non Structural Repair III *Prerequisite: AUTB 1210.* This course focuses on evaluating major body damage and determining the necessary repairs. The complete job is stressed, from body repair to final refinishing.

AUTB 2300 – Automotive Refinishing I Students are introduced to EPA, personal health, and safety equipment regulations. It covers introductions to finish systems, metal prep, sealers and primers, and masking techniques.

AUTB 2310 – Automotive Refinishing II *Prerequisite: AUTB 2300* This course is a continuation of Automotive Refinishing I with emphasis placed on solving paint application problems. Students practice paint mixing, matching and application, finish defects, and causes and cures.

AUTB 2450 - Collision Estimating I Students learn the systematic approach to analyzing collision damage and creating a damage report manually. It covers different types of damage, plan for repairs, repair or replace decisions, and use of crash guides.

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.foollett.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.

AUTOMOTIVE TECHNOLOGY

South Omaha Campus – 27th & Q – Mahoney Building

Year 1 Student 2017 - 2017

Dates	Course	Title	Credits	Times	Scheduled Days
July 5 – 20, 2018	AUTT 0900	Students must pass to move on. Automotive Fundamentals	1.5	9:00 – 12:00	MTWTh
September – November 20, 2018					
	MATH 1240	Applied Mathematics Modular*	4.5	2:00 - 3:50	T, TH
September 5 – October 10, 2018					
	AUTT 1010	Introduction to Auto Service & Minor Repair*	3	12:30 – 4:10	M, W
October 15 – November 19, 2018					
	AUTT 1310	Power Train Repair I*	3	12:30 – 4:10	M, W
December, 2017 – February, 2018					
	MATH 1240	Applied Mathematics*(if not completed in Fall)	4.5	2:00 – 3:50	T, TH
December 3, 2018 – January 16, 2019					
	AUTT 1210	Automotive Electricity & Electronics I*	3	12:30 – 4:10	M, W
January 23 – February 25, 2019					
	AUTT 1220	Automotive Electricity & Electronics II*	3	12:30 – 4:10	M, W
March 11 – April 15, 2019					
	AUTT 1320	Power Train Repair II*	3	12:30 – 4:10	M, W
April 17– May 22, 2019					
	AUTT 1510	Brake Repair I*	3	12:30 – 4:10	M, W
		TOTAL CREDIT HOURS	24		

Transition Year 2 Student 2018– 2019 (students who took 1st year in 2017)

Dates	Course	Title	Credits	Times	Scheduled Days
September 5 – October 10, 2018					
	AUTT 1520	Brake Repair II*	3	12:30 – 4:10	M, W
October 15– November 19, 2018					
	AUTT 1230	Automotive Electricity & Electronics III	3	12:30 – 4:10	M, W
December 3, 2017 – January 16, 2019					
	AUTT 1620	Heating and Air Conditioning I	3	12:30 – 4:10	M, W
January 23 – February 25, 2019					
	AUTT 1330	Power Train Repair III*	3	12:30 – 4:10	M, W
March 11 – April 15, 2019					
	AUTT 1710	Engine Mechanical Service*	3	12:30 – 4:10	M, W
April 17 – May 22, 2019					
	AUTT 2310	Suspension Systems*	3	12:30 – 4:10	M, W
		TOTAL CREDIT HOURS	18		

*Students must pass the prerequisite class to remain in the program.

All classes use Hybrid format; these courses combine classroom learning with a significant online component. Typically, students in hybrid courses work online during portions of the week and then come to campus to apply and refine their skills, participate in labs, etc.

AUTOMOTIVE TECHNOLOGY – cont'd.

Additional Supplies and Fees:

ASE student certification testing fee will be assessed when the student enrolls in the AUTT 1010 fall quarter class (Fee for 2017/2018 year was \$30.00.) Supplies required: Safety glasses, program t-shirt, steel toed shoes or boots must be worn in lab. No shorts. MCC will provide, on loan, most of the appropriate supplies and tools for each course. Students will be held responsible for lost and/or broken equipment and tools.

Automotive Youth Educational Systems (AYES): AYES is a partnership among participating automotive manufacturers, dealerships and select automotive programs. It is designed to encourage young people to consider careers in retail automotive service. Visit <https://www.ayes.org/Home.aspx> for more information.

Review

- ✓ Driver's License Required
- ✓ Juniors Preferred
- ✓ All classes use a Hybrid format - in class and on-line
- ✓ Good attendance required.
- ✓ Students must maintain a 3.0 GPA in the automotive classes and a 2.0 GPA in their high school to be in the AYES program. Students that do not meet this requirement may remain in the program provided they are passing all classes, but they will lose the AYES status.
- ✓ Students with traffic violations; DUI, drug arrest, speeding ticket, and loss of driver's license, may find employment difficult.
- ✓ Students may be asked to interview in March/April for the summer program internship.**
- ✓ Internship can be done during the summer of either the first and/or second year. This is not a requirement for the AYES program. Students must meet the MCC internship requirements.

****Summer internship will require purchase of internship tool set. See instructor for more information.**

COURSE DESCRIPTIONS

AUTT 0900 - Students that are unfamiliar with modern tools and terminology in the automotive business or want to get a head start are requested to take this course. Materials presented in this course are designed to help the entry level student learn how to use basic tools, service information systems and terms. This will require use of items in the lab as most lectures will take place in a lab setting. This is a Hybrid class format.

AUTT 1010 – Introduction to Auto Service and Minor Repair Students registering for this course must have a valid driver's license. This beginning class deals with many of the basic elements of the auto repair trade. Items covered are safety, chemicals, and bulb replacement. This class also encourages the soft skills needed in today's modern workplaces, such as attitude, ethics, professionalism, and on-the-job communication. Individualized hands-on laboratory training utilizing live work is included in this course.

AUTT 1210 – Automotive Electricity & Electronics I Students registering for this course must have a valid driver's license. This course covers basic electrical theory, including Ohm's Law and basic dc circuits. Through the use of specially designed electrical trainers and hands-on experience, students investigate electrical systems common to the automobile. The course includes individualized hands-on laboratory training utilizing live work.

AUTT 1220 – Automotive Electricity & Electronics II *Prerequisite: AUTT 1210 with C or better and valid driver's license.* This course explains and demonstrates theory, construction, operation, and testing of batteries, starters, and charging systems. The course includes individualized hands-on laboratory training utilizing live work. NOTE: Students must have an acceptable completion score on the Sp/2 Safety Course for Mechanical Safety and Mechanical Pollution Prevention.

AUTOMOTIVE TECHNOLOGY – cont'd

AUTT 1230 – Automotive Electricity & Electronics III *Prerequisite: AUTT 1220 with C or better and valid driver's license.* This course covers the fundamentals of automotive computers and their relationship with sensor inputs and actuator outputs along with advanced diagnostic procedures of electronic body electrical systems. The course includes individualized hands-on laboratory training utilizing live work.

AUTT 1310 – Power Train Repair I *Prerequisite: Valid driver's license.* This course covers tire and wheel balancing, inspection of steering, power assisted steering and suspension parts, tire wear, and pre-alignment inspection. The course includes individualized hands-on laboratory training utilizing live work.

AUTT 1320 – Power Train Repair II *Prerequisite: AUTT 1220, 1310 with C or better and valid driver's license.* This course will cover basic theory and operation of engines, transmissions, and drivetrains including: 4 stroke theory, basic ignition systems, timing chain and belt operation, transmission gear flow for both manual and automatics and hydraulic principles.

AUTT 1330 – Power Train Repair III *Prerequisite: AUTT 1320 with C or better and valid driver's license.* Students perform maintenance and light repair on the following: manual transmissions, automatic transmissions, differentials, axles, and engines.

AUTT 1510 – Brake Systems I *Prerequisite: AUTT 1010 with C or better and valid driver's license.* Students spend classroom and lab hours on the proper repair and diagnosis of modern brake systems. Students cover basic operation and diagnosis and perform brake rotor and drum resurfacing.. NOTE: Students must have an acceptable completion score on the Sp/2 Safety Course for Mechanical Safety and Mechanical Pollution Prevention.

AUTT 1520 – Brake Repair II *Prerequisite: AUTT 1510 and AUTT 1220 with C or better and valid driver's license.* Students spend classroom and lab hours on the proper repair and diagnosis of modern brake systems. They study components, such as power boosters and master cylinders. The course covers the design, operation, and testing of anti-lock brake and traction control systems using a variety of testing equipment. The course includes individualized hands-on laboratory training utilizing live work.

AUTT 1620 Heating and Air Conditioning *Prerequisite: AUTT 1230 and AUTT 1310 with a grade of C or better and valid driver's license.* Automotive heating and air conditioning theory of operation, diagnostic equipment, and minor service are covered. The course includes hands-on laboratory training utilizing live work. NOTE: Students must have an acceptable completion score on the Sp/2 Safety Course for Mechanical Safety and Mechanical Pollution Prevention.

AUTT 1710 – Engine Mechanical Service I *Prerequisite: AUTT 1330 with a grade of C or better valid driver's license.* This course covers minor engine repair, such as gasket replacement, compression testing, and timing belt replacement. The course includes individualized hands-on laboratory training utilizing live work. NOTE: Students must have an acceptable completion score on the Sp/2 Safety Course for Mechanical Safety and Mechanical Pollution Prevention.

AUTT 2310 – Suspension Systems *Prerequisite: AUTT 1310 and AUTT 1230 both with grades of C or better and valid driver's license.* This course covers the operation, diagnosis, and repair of front and rear suspension systems. Students also study manual and power steering systems, tire wear, and four-wheel alignment. The course includes individualized hands-on laboratory training utilizing live work. NOTE: Students must have an acceptable completion score on the Sp/2 Safety Course for Mechanical Safety and Mechanical Pollution Prevention.

MATH 1240 – Applied Mathematics Modular

Students develop and apply the mathematical skills needed to solve problems related in industrial occupations. Students enroll in the mastery-based modular course with the intent of completing one of two strands. Placement is determined by the instructor and is based on the students' majors. Each strand satisfies the objectives for the course, but is contextualized to meet students' individual needs. Topics include applications of arithmetic skills, measurement, elementary algebra, geometry, and trigonometry.

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.foollett.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.

CERTIFIED NURSING ASSISTANT (CNA)
 South Omaha Campus – 27th & Q – Mahoney Building

Year 1 Student 2018 - 2019

Dates	Course	Title	Credits	Times	Scheduled Days
MCC staff will place you in either Group 1 or Group 2.					
Group 1 September – September, 2018					
	EMSP 1000	Cardiopulmonary Resuscitation	1	1:00–4:00	F First 4 Weeks
	EMSP 1010	Heartsaver First Aid with CPR and AED	1	1:00–4:00	F First 4 Weeks
Group 1 September – November, 2018					
	HIMS 1120	Medical Terminology I*	4.5	1:00–2:45	M, W
Group 2 September – November, 2018					
	HIMS 1120	Medical Terminology I*	4.5	1:00–2:45	T, TH
Group 2 October – October, 2018					
	EMSP 1000	Cardiopulmonary Resuscitation	1	1:00–4:00	F Second 4 Weeks
	EMSP 1010	Heartsaver First Aid with CPR and AED	1	1:00–4:00	F Second 4 Weeks
Group 1 December, 2018 – February, 2019					
	HIMS 1130	Medical Terminology II*	4.5	1:00–2:55	M, W
Group 1 December, 2018 – February, 2019					
	WORK 1400	Employability Skills	4.5	1:00–2:55	T, TH
Group 2 December, 2018 – February, 2019					
	HIMS 1130	Medical Terminology II*	4.5	1:00–2:55	T, TH
Group 2 December, 2018 – February, 2019					
	WORK 1400	Employability Skills	4.5	1:00–2:55	M, W
March 10 – May, 2019					
	HLTH 1200	Long Term Care / Certified Nursing Assistant	6.5	2:00-4:00	M, T, W, TH
May 2019					
	HLTH 1200	Clinicals (must attend all days)		6:00-2:30	M, W, TH,
May 2019					
	State Testing			TBA	TBA
TOTAL CREDIT HOURS - per group			22.0		

**Students must receive passing grades in order to remain in the academy.*

Application Process and Fees:

- Proof of required English in the form of actual College Level English Composition I or student completes ACCUPLACER with minimum 82 Read/Writing or ACT scores of 18 in Reading and 18 in Writing.
- Career Academy CNA Application/Technical Standards form signed and submitted
- Background Check form signed and submitted by both student and parent if under 18.
- Provide proof Mantoux PPD Skin Test (TB -Tuberculosis Test) that will remain current through the end of the spring quarter classes.
- SSN or I-94 required for State Registry
- Student Liability Insurance Program** fee will be assessed when the student enrolls in the spring quarter class HLTH 1200 CNA Long Term Care / Certified Nursing Assistant. (Fee for 2017/2018 year was \$14.50.)
- Background Check fee will be assessed when the student enrolls in the spring quarter class is necessary prior to starting HLTH 1200. (Fee for 2017/2018 year was \$45.00.)

CNA cont'd.

***Students enrolling in certain health occupations and human services programs requiring clinical practice, laboratory or experiences that place the student in the position of providing patient care must be covered by a student liability insurance program. The specific policy shall be determined by the College with the cost paid by the student as part of the fee assessment upon initial enrollment in the clinical, laboratory or patient care class.*

COURSE DESCRIPTIONS

EMSP 1000 – Cardiopulmonary Resuscitation for Healthcare Providers This course will teach the participant how to recognize and respond to life-threatening emergencies, such as cardiac arrest, respiratory arrest, and foreign-body airway obstruction (choking). The student will learn to recognize heart attack and stroke symptoms in adults and breathing difficulty in children. This course teaches the skills needed to respond to emergencies identified. The participant will learn the skills of CPR for victims of all ages (including ventilation with barrier devices and bag-mask devices), use of an automated external defibrillator (AED), and relief of foreign-body airway obstruction (FBAO).

EMSP 1010 – Heartsaver First Aid with CPR and AED This course teaches rescuers to effectively identify and treat adult emergencies in the critical first minutes of injury or illness until emergency medical service personnel arrive. The course provides basic training solutions for first aid, adult CPR, and automated external defibrillator.

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 *Prerequisite: HIMS 1120 with C or better.*

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.

HLTH 1200 – Long Term Care/Certified Nursing Assistant The course meets the Nebraska Health and Human Services System training requirements for nursing assistant certification and employment in long-term care facilities. The course combines classroom lecture, laboratory application, and clinical experience for development of basic skills needed to care for the elderly. Course content focuses on teaching nursing assistants to provide safe, effective, and caring services to the elderly or chronically ill patients of any age in a long-term care facility. *Upon enrollment: Background Check and Student Liability Insurance Program fee is assessed to the student's account.*

WORK 1400 – Employability Skills This course allows students to enhance their interpersonal skills, improve their ability to work in teams, learn to communicate effectively, think creatively, use problem-solving techniques, and explore competitive job-seeking strategies.

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.foollett.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.

CRIMINAL JUSTICE SENIORS ONLY

Sarpy Center – 91st & Giles

Year 1 Student 2018 - 2019

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2018					
	CRIM 1010	Introduction to Criminal Justice*	4.5	1:00-3:00	M, W
	CRIM 2300	Community Relations	4.5	1:00-3:00	T, TH
December, 2018 – February, 2019					
	CRIM 2030	Police and Society**	4.5	1:00-3:00	M, W
	CRIM 1030	Courts and the Judicial Process	4.5	1:00-3:00	T, TH
March – May, 2019					
	CRIM 1020	Introduction to Corrections	4.5	1:00-3:00	M, W
	CRIM 2120	Community Based Corrections	4.5	1:00-3:00	T, TH
TOTAL CREDIT HOURS			27		

*Must pass with a C or better to continue.

COURSE DESCRIPTIONS

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 1030 – Courts and the Judicial Process

This course examines legal aspects of investigation and arrest procedures as well as rules governing the admissibility of evidence in court. It focuses primarily on police and correctional due process, application of the law, and civil liability concerns. Topics include search and seizure, arrest and interrogation, revocation, probation and parole, probable cause, and other timely issues.

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.

CRIM 2120 – Community-Based Corrections

This course outlines a number of community-based corrections programs such as probation, parole, electronic monitoring, and fines designed to meet the level of risk and needs of the offender. The course covers the balanced approach that reflects a strong emphasis on practical and legal matters. It also discusses the historical, philosophical, social, and legal contexts of community-based corrections.

CRIM 2300 – Community Relations *Prerequisite: CRIM 1010* This course examines the traditional and current problems that inhibit understanding among all segments of the criminal justice system and the public. It explores methods of creating understanding and confidence by using various means of communication.

Criminal Justice cont'd

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.

DIESEL TECHNOLOGY

Applied Technology Center – 10407 State St, Omaha
Omaha, NE

Year 1 Student 2018 - 2019

Dates	Course	Title	Credits	Times	Days
(Th) July 5 – (W) July 18	DESL 0900	Basics of Diesel Mechanics	1.5	8:00-11:00	M, T, W, TH, F
September – November, 2018					
<i>Note: Career Academy Students are divided into two sections by space availability</i>					
	DESL 1000	Diesel Preventive Maintenance	4	1:00-4:25	T, TH or
	DESL 1000	Diesel Preventive Maintenance	4	1:00-4:25	M, W
December, 2018 – February, 2019					
	DESL 1230	Diesel Engine Fundamentals	4	1:00-4:25	M, W or
	DESL 1230	Diesel Engine Fundamentals	4	1:00-4:25	T, TH
March – May, 2019					
	DESL 2100	Heavy Duty Drivetrain	4	1:00-4:25	M, W or
	DESL 2100	Heavy Duty Drivetrain	4	1:00-4:25	T, TH
TOTAL CREDIT HOURS - per group			13.5		

Year 2 Student 2018 – 2019 (students who took 1st year in 2017)

Dates	Course	Course Title	Credits	Times	Scheduled Days
SUMMER QUARTER 2018					
<i>RECOMMENDED for Career Certificate DDES1:</i>					
	DESL 2200	Steering and Suspension	4.0 credits	2 afternoons / wk	
	WELD 1261	Combination Welding - Automotive	3.0 credits	Welding Department	
TOTAL CREDIT HOURS			7.0		
*OPTIONAL	DESL 2981	Diesel Internship I (with Host Employer from the Industry with pay)	8	As required	
September – November					
	DESL 1210	Electricity and Electronics	6	1:00-5:45	M, W
December – February					
	DESL 2150	Truck ABS and Brakes	4	1:00-4:25	T, TH
March – May					
	DESL 1620	Climate Control/Heating and Air Conditioning	4	1:00-4:25	T, TH
TOTAL CREDIT HOURS			14*		

1. First Year students are required to attend and pass the DESL 900 summer session for screening into the fall program.

2. Good attendance is required.

3. **TOTAL CREDIT HOURS of 14 for Summer Year 2 students does not include DESL 2981 Diesel Internship I or recommended classes for career certificate.

4. Shirt(s) will be required; purchase ONLINE. (For 2017/2018 year, cost was \$12.00/shirt)

COURSE DESCRIPTIONS first year (2018-19)

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 *Prerequisite DESL 1000 Diesel Preventive Maintenance and earn a "C" or better.* This course is the study of diesel engine principles and component identification. Students gain knowledge through lecture and entry-level hands-on engine assembly and disassembly.

DESL 2100 – Heavy Duty Drivetrain *Prerequisite: DESL 1000 Diesel Preventive Maintenance and 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.

COURSE DESCRIPTIONS second year (2019-20)

DESL 1210 – Electricity and Electronics **COURSE REQUISITE (S):** *DESL 1000 Diesel Preventive Maintenance and earn a "C" or better* **Note:** *Students should qualify by proper testing to enter at minimum Math 1240 before registering for DESL 1210.* This course presents electrical principles and basic introductory electronics used in the Diesel Technology career field for service of medium duty truck, heavy duty truck, heavy equipment, and power generation applications. Theory, operation and testing of common systems will be investigated with MCC hands-on trainers and live work.

DESL 1620 – Climate Control/Heating and Air Conditioning *Prerequisite: DESL 1210.* This course is the study of diesel heating, air conditioning, and support systems in-depth. Students troubleshoot and make repairs in the shop with a variety of trucks and equipment.

DESL 2150 – Truck ABS and Brakes **COURSE REQUISITE (S):** *Prerequisites (2): DESL 1000 Diesel Preventive Maintenance & DESL 1200 Fundamentals of Hydraulics and earn a "C" or better; or it may be taken with Instructor Permission in conjunction with either one or both of these 2 courses as a co-requisite.* This course with professional lab presentations studies, analyzes, and repairs ABS systems on both medium- and heavy-duty trucks. Students learn to repair, rebuild, and maintain air brake systems through lab experiences in wheel-end repair and maintenance.

RECOMMENDED for Career Certificate DDES1: not part of the academy*

***DESL 1200 –Fundamentals of Hydraulics** *Prerequisite DESL 1000 Diesel Preventive Maintenance and earn a "C" or better; or it may, with Instructor Permission, be taken in conjunction with DESL 1000 as a co-requisite.* This course is the study of basic principles relating to hydraulic systems and component identification. Activities involving schematic usage and symbol identification enhance students' diagnostic skills.

***DESL 2200 – Steering and Suspension** *Prerequisites (2): DESL 1000 Diesel Preventive Maintenance & DESL 1200 Fundamentals of Hydraulics and earn a "C" or better; or it may, with Instructor Permission, be taken in conjunction with either one or both of these 2 courses as a co-requisite.* This course is a study of heavy-duty truck steering and suspension systems. Students learn to repair, align, and maintain these systems.

***WELD 1261 Combination Welding - Automotive** This course acquaints students with the various welding and cutting techniques applicable to the automotive field.

***DESL 2981 – Diesel Internship I** This internship gives students the needed experience to advance their skills, while working with a qualified mentor in a diesel repair shop or dealership. The experience provides students the opportunity to practice their skills in real life work situations. Applications for internships must be approved by program faculty.

Required Books: *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 Textbook & Engine Textbook + (2yr. Online Access)

ISBN Kit #9781284110586 (Complete Kit available at our MCC bookstore only). 2017 cost \$464.75 + tax.

DIGITAL CINEMA/FILMMAKING
Elkhorn Valley Campus – 204th & Dodge

Year 1 Student 2018 - 2019

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2018					
	PHOT 1500	Moving Image Lab	6	1:00 - 2:30	M, T, W, TH
December, 2018 – February, 2019					
	VACA 1130	Video I - Studio	4.5	1:00 - 4:00	M, W
	VACA 1110	Introduction to Scriptwriting***	4.5	1:00 - 3:05	T, TH
March – May, 2019					
	VACA 2900	Art in Film	3	1:00 - 3:00	M, W
	VACA 2130	Video II – Field	4.5	1:00 – 4:00	T, TH
TOTAL CREDIT HOURS			22.5		

***Note: VACA 1110 requires: Excellent English grades

COURSE DESCRIPTIONS

PHOT 1500 – Moving Image Lab This course is an overview of methods used in moving image production. By investigating the pre-production, production and post-production processes, students achieve an understanding of how these principles integrate with still photography, video production, and multimedia.

VACA 1110 – Introduction to Scriptwriting This course introduces scriptwriting for video production, television, and motion picture film. Using the two-column and screenplay formats, students complete lab exercises and assignments about the structure of concept, treatment, and finished script. It reviews broadcast or corporate examples. Students can use the scripts for projects in Moving Image Lab, Video II, and Video III.

VACA 1130 – Video I - Studio This course is an introduction to the video medium. Students learn and practice the basics of operating a video camera, recording quality images and sound, and editing tape. Both studio and location assignments provide practical learning opportunities. NOTE: PHOT 1500 is required for Video majors only.

VACA 2130 – Video II – Field Camera operation, sound recording, and editing assignments provide an intermediate skill level of learning and practice. It introduces and applies lighting for the studio and on location.

VACA 2900 – Art in Film *Prerequisite: PHOT 1500* This course examines film as an art form, emphasizing the connection between form and content. Students will gain a greater understanding of the visual language of cinema by studying the conscious aesthetic choices made by the filmmakers to convey the story and/or meaning. Students view and discuss a variety of films from various genres, including noir, screwball comedy and documentary. The course also covers important movements in cinema such as French New Wave and Italian Neo-realism, examining both stylistic traits as well as historical importance. Beyond covering and analyzing the components of filmmaking, this course delves into basic concepts of film theory.

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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ELECTRICAL TECHNOLOGY

Fort Omaha Campus – 30th and Fort – Construction Education Center

Year 1 Student 2018 - 2019

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2018					
	ELTR 1200	Basic Electricity*	8	1:00 – 2:50	M-TH
December, 2018 – February, 2019					
	CNST 1020	Blueprint Reading (First 5 weeks)	4.5	1:00 – 3:00	M-TH
	ELTR 2240	National Electrical Code (Second 5 weeks)	4.5	1:00 – 3:00	M-TH
	EMSP 1010	Heartsaver First Aid with CPR and AED (First three weeks)	1.0	12:30 – 3:10	F
	CNST 1110	Construction Safety (Next four weeks)	1.0	1:00 – 3:00	F
March – May, 2019					
	ELTR 1210	Residential Wiring*	9	1:00-3:00	M, T, W, TH
TOTAL CREDIT HOURS			28		

Year 2 Student 2018 – 2019 (students who took 1st year in 2017)

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2018					
	ELTR 1220	Commercial Wiring*	9.0	1:00-3:00	M, T, W, TH
December, 2018 – January, 2019					
	ELTR 2250	Commercial Wiring II	6.0	1:00-2:40	M, T, W, TH
March 10 – May, 2019					
	ELTR 1250	Electric Service and Installation	6.0	1:00-2:40	M, T, W, TH
TOTAL CREDIT HOURS			21		

**Students must receive a C or better to advance to the next class.*

Tools and Supplies: Students provide tool pouch, wire strippers, lineman's pliers, 4 in 1 screwdriver, multi-meter (recommended Ideal #61-744), calculator, safety glasses and colored pencil set with green, yellow, red, black, blue, violet and brown. Safety glasses and closed toe shoes must be worn in lab. MCC will provide, on loan, most of the appropriate supplies and tools for each course. Students will be held responsible for lost and/or broken equipment and tools.

COURSE DESCRIPTIONS

CNST 1110 – Construction Safety This course provides training outlined by the Occupational Safety and Health Administration (OSHA). This course supplies students with the recommended safety requirements for working in the construction field.

CNST 1020 – This course teaches how to read and interpret residential architectural plans, including terms and definitions, architectural drawings, alphabet of lines, description of lines, and floor plan, electrical, plumbing, section, and mechanical symbols. It emphasizes reading an architect's scale. This course also includes extracting specified information from a set of building specifications and simple sketching procedures.

ELECTRICAL TECHNOLOGY cont'd.

EMSP 1010 – Heartsaver First Aid with CPR and AED This course teaches rescuers to effectively identify and treat adult emergencies in the critical first minutes of injury or illness until emergency medical service personnel arrive. The course provides basic training solutions for first aid, adult CPR, and automated external defibrillator.

ELTR 1200 – Basic Electricity This course includes an introduction to electrical theory and series and parallel circuits. Topics include alternating current, Ohm's Law, meters, grounding, preview of the National Electric Code, troubleshooting, and repair. NOTE: Completion of ELTR 1200 with a grade of C or better is required to advance to next level class.

ELTR 1210 – Residential Wiring Prerequisite: ELTR 1200 with grade of C or better. This course is designed to give students a basic knowledge of the electrical circuitry found in residential wiring. Students learn to apply the National Electrical Code standards.

ELTR 1220 – Commercial Wiring Prerequisite: ELTR 1210 with grade of C or better. This course includes the study of branch circuits, wiring methods, and application of the National Electrical Code. Following the requirements of the National Electrical Code, students learn how to select the proper type and size of boxes, raceways, and conductors. Students also learn how to calculate box fill, conduit fill, and conduit bending.

ELTR 1250 Electric Service and Installation – Prerequisite (1) ELTR 1200 with grade of C or better - must be completed prior to taking this course.

This course explains the electric controls for general motor controllers, time clock lighting controls, photo electric controls, AC and DC controls, equipment grounding, heat pump concepts and controls, and furnace and AC concepts and controls. Troubleshooting basic motor and control concepts are covered.

ELTR 2250 – Commercial Wiring II

This course is a continuance of Commercial Wiring I. Students will focus on advanced devices, installation of equipment installations, and trouble shooting and repairs. Further understanding of calculations for equipment and the National Electrical Code will be included.

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.

EMERGENCY MEDICAL TECHNICIAN (EMT) – Seniors Only

South Omaha Campus – 27th & Q – Mahoney Building

Year 1 Student 2018 - 2019

Dates	Course	Title	Credits	Times	Scheduled Days
Group 1 September – September, 2018					
	EMSP 1000	Cardiopulmonary Resuscitation	1	1:00–4:00	F First 4 Weeks
	EMSP 1010	Heartsaver First Aid with CPR and AED	1	1:00–4:00	F First 4 Weeks
Group 1 September – November, 2018					
	HIMS 1120	Medical Terminology I*	4.5	1:00–2:55	M, W
Group 2 September – November, 2018					
	HIMS 1120	Medical Terminology I*	4.5	1:00–2:55	T, TH
Group 2 September – September, 2018					
	EMSP 1000	Cardiopulmonary Resuscitation	1	1:00–4:00	F Second 4 Weeks
	EMSP 1010	Heartsaver First Aid with CPR and AED	1	1:00–4:00	F Second 4 Weeks
Group 1 December, 2018 – February, 2019					
	HIMS 1130	Medical Terminology II*	4.5	1:00–2:55	M, W
Group 1 December, 2018 – February, 2019					
	WORK 1400	Employability Skills	4.5	1:00–3:00	T, TH
Group 2 December, 2018 – February, 2019					
	HIMS 1130	Medical Terminology II*	4.5	1:00–2:55	T, TH
Group 2 December, 2018 – February, 2019					
	WORK 1400	Employability Skills	4.5	1:00–3:00	M, W
March – May, 2019					
	EMSP 1100	EMT	12	1:00–4:00	M, T, W, TH
TOTAL CREDIT HOURS - per group			27.5		

Note: In EMSP 1100 -National Registry Exam -Certification Test can be taken before 18 but you must be 18 years or older to receive the certificate.

***Students must receive C or above in order to remain in the academy.**

Application Process and Fees:

- EMT Application/Technical Standards form signed and submitted
- Background Check form signed and submitted by both student and parent if under 18.
- Provide proof of all immunizations, including Hepatitis B and Mantoux PPD Skin Test (TB -Tuberculosis Test) that will remain current through the end of the spring quarter classes. SSN required for State Registry
- Driver's License or government ID
- Need CPR Card from EMSP 1010 for EMSP 1100
- National Registry Exam test fee will be assessed when the student enrolls in the spring quarter class EMSP 1100 EMT (Fee for 2017/2018 year was \$80.00.)
- Student Liability Insurance Program** fee will be assessed when the student enrolls in the spring quarter class EMSP 1100 EMT (Fee for 2017/2018 year was \$14.50.)
- Fire Department Ride Along fee will be assessed when student enrolls in the spring quarter class EMSP 1100 EMT (Fee for 2016/2017 year was \$25.00.)
- Fire Department FISDAP Ride Along program scheduler fee will be assessed when student enrolls in the spring quarter class EMSP 1100 EMT (Fee for 2017/2018 year was \$15.00.)

EMERGENCY MEDICAL TECHNICIAN (EMT) – Seniors Only

- Background Check fee will be assessed when the student enrolls in the spring quarter class is necessary prior to starting EMSP 1100 EMT (Fee for 2017/2018 year was \$45.00.)
- Drug Testing will be assessed when the student enrolls in the spring quarter class is necessary prior to starting EMSP 1100 EMT (Fee for 2017/2018 year was \$48.00)
- Tools and Supplies: stethoscope, uniform (polo, pants, black shoes), pen and notepad, watch with second hand will be required in the Spring Quarter.

***Students enrolling in certain health occupations and human services programs requiring clinical practice, laboratory or experiences that place the student in the position of providing patient care must be covered by a student liability insurance program. The specific policy shall be determined by the College with the cost paid by the student as part of the fee assessment upon initial enrollment in the clinical, laboratory or patient care class.*

COURSE DESCRIPTIONS

EMSP 1000 – Cardiopulmonary Resuscitation for Healthcare Providers This course will teach the participant how to recognize and respond to life-threatening emergencies, such as cardiac arrest, respiratory arrest, and foreign-body airway obstruction (choking). The student will learn to recognize heart attack and stroke symptoms in adults and breathing difficulty in children. This course teaches the skills needed to respond to emergencies identified. The participant will learn the skills of CPR for victims of all ages (including ventilation with barrier devices and bag-mask devices), use of an automated external defibrillator (AED), and relief of foreign-body airway obstruction (FBAO).

EMSP 1010 – Heartsaver First Aid with CPR and AED This course teaches rescuers to effectively identify and treat adult emergencies in the critical first minutes of injury or illness until emergency medical service personnel arrive. The course provides basic training solutions for first aid, adult CPR, and automated external defibrillator.

EMSP 1100 – Emergency Medical Technician This Emergency Medical Technician course provides an introduction to Emergency Medical Care. Modules of training will include medical-legal, roles and responsibilities of the EMT, documentation and communication, human body anatomy and physiology of the major human systems, medical terminology, lifting and moving, airway management basic and advanced, patient assessment, medical and trauma, medical emergencies, treatment, and use of assisted medications and IV maintenance, bleeding control and shock, trauma emergencies, use of immobilization devices, obstetrical emergencies, childbirth, pediatrics and children emergencies, ambulance operations, hazardous materials, mass casualty, and triage. This course consists of 110 didactic hours, 55 hours of lab, and 10 hours of field experience with 5 patient contacts. NOTE: Requirements for this course include a completed application, completed background check form, and proof of current CPR Certification for Healthcare Provider or CPR for the Professional Rescuer. Upon enrollment the National Registry Test Fee, Student Liability Insurance, Fire Department Ride Along fee, FISDAP fee, drug testing fee, and Background Check fee are assessed to the student's account.

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 *Prerequisite: HIMS 1120*

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.

EMERGENCY MEDICAL TECHNICIAN (EMT) – Seniors Only

WORK 1400 – Employability Skills This course allows students to enhance their interpersonal skills, improve their ability to work in teams, learn to communicate effectively, think creatively, use problem-solving techniques, and explore competitive job-seeking strategies.

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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FIRE SCIENCE TECHNOLOGY (FIST)

Applied Technology Campus – 10407 State Street, Omaha, Nebraska

Year 1 Student 2018 - 2019

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2018					
	FIST 1000	Principles of Emergency Services	3	12:30-3:30	TU
	FIST 1020	Fire Behavior & Combustion	4	12:30-3:30	WE
December, 2018 – February, 2019					
	FIST 1060	Occupational Safety & Health for Emergency Services	3	12:30-3:30	TU
	FIST 2040	Principles of Fire & Emergency Services Safety & Survival	3	12:30-3:30	WE
March – May, 2019					
	FIST 1070	Fire Protection Systems	3	12:30-3:30	TU
	FIST 2020	Fire Prevention, Inspection & Codes	3	12:30-3:30	WE
TOTAL CREDIT HOURS			19		

Year 2 Student 2018 – 2019 (students who took 1st year in 2017)

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2018					
	FIST 2030	Legal Aspects of Emergency Services	3	12:30-3:30	TU
	FIST 2000	Incident Command System	3	12:30-3:30	WE
December, 2018 – February, 2019					
	FIST 1050	Building Construction for Fire Protection	3	12:30-3:30	TU
	FIST 2010	Fire Investigation I	3	12:30-3:30	WE
March – May, 2019					
	FIST 2900	Selected Topics in Fire Science*	3	12:30-3:30	TU
	FIST 2070	Hazardous Materials Operations	3.5	12:30-3:30	WE
TOTAL CREDIT HOURS			18.5		

GRADUATION SUMMER – any senior who completes year one and is 18 by the start of the class will be guaranteed a spot in FIST 1090. Students completing both years are also guaranteed a spot in class the summer they graduate if they are 18 by the start of the class.

<i>FIST 1090**</i>	<i>Firefighter I</i>	10	5:00-9:00p 8:30-3:00p	WE SAT
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FIST 2900 is not part of the FSAAS degree but is required

Students must receive passing grades in order to remain in the academy.

*** must be 18 years or older by June in order to take FIST 1090 (Firefighter I).*

FIST cont'd.

Application Process and Fees:

- Career Academy FIST Application/Technical Standards form signed and submitted

COURSE DESCRIPTIONS

FIST 1000 – Principles of Emergency Services This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; and life safety initiatives. NOTE: Course formerly Introduction to Fire Protection Principles.

FIST 1020 – Fire Behavior & Combustion This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. Topics include fundamental laws of chemistry, states of matter, gas laws, chemical bonding, and thermodynamics with applications to various industrial processes.

FIST 1050 – Building Construction for Fire Protection This course provides a basic understanding of how the construction type, alternative design, and materials influence a building's reaction to fire. This course provides recognition of relevant information about a building before a fire, as well as fire ground 'reading' of the building that provides the ability to assess building stability and resistance to fire and determine likely paths of fire extension. Students become familiar with the materials and types of construction used for the various parts of buildings in this class. This course covers building code requirements; steel, timber, and masonry construction; structures of the common form; lift-slab and tilt-up construction; and developments in the building construction field. This course teaches building construction as it relates to the firefighter and life safety.

FIST 1060 – Occupational Safety and Health for Emergency Services This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations.

FIST 1070 – Fire Protection Systems This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection, and portable fire extinguishers.

FIST 2000 – Incident Command System This course provides an introduction to the basic principles of the Incident Command System within the National Incident Management System (NIMS) compliant framework. The course covers the Department of Homeland Security Incident Command courses 100, 200, and 700. These are the minimum Federal ICS requirements for first responders within the United States. In addition to the course reading material and lecture, the course relies heavily on a final group activity and an understanding of inter-agency dynamics. Personnel accountability, safety at the scene, planning for the continuity of operations, and logistical requirements for incidents of all risks and sizes are only a few of the major components that are covered.

FIST 2010 – Fire Investigation I This course provides students with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the fire-setter, and types of fire causes. NOTE: Course formerly Incendiary Fire Analysis and Investigation.

FIST cont'd.

FIST 2020 – Fire Prevention, Inspection and Codes This course is an examination and evaluation of the techniques, procedures, programs, and agencies involved with fire prevention. It gives consideration to related governmental inspection and education procedures.

Fist 2030 – Legal Aspects of Emergency Services This course is an introductory course that addresses the federal, state, and local laws that regulate emergency services and includes a review of national standards, regulations, and consensus standards.

FIST 2040 – Principles of Fire & Emergency Services Safety & Survival This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral change throughout the emergency services.

FIST 2070 – Hazardous Materials Operations This course introduces the basic skills necessary to safely and effectively manage on-scene operations involving the uncontrolled release of dangerous chemicals. It focuses on those individuals in local jurisdictions who respond to releases or potential releases of hazardous substances as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. Those individuals respond in a defensive fashion without actually trying to stop the release. Upon successful completion, students are able to apply for certification at the Hazardous Materials Operations Level, as per OSHA regulation 29 CFR 1910.120, their function is to contain the release from a safe distance, keep it from spreading, and prevent exposures.

FIST 2900 – Selected Topics in Fire Science* This course provides students with practical instruction and lab demonstration in all areas of a Fire Fighting Career without placing them in an Immediately Dangerous to Life or Health Situation (non-IDLH). Such practical instruction and lab demonstration will include: Search & Rescue Techniques; Use of Portable Fire Extinguishers; PPE; Ropes & Knot Tying; Use of Fire Hose, Nozzles and Appliances; Salvage & Overhaul Procedures; Tools & Equipment; and Ladders. Upon enrollment, Student Liability Insurance fees are assessed to the student's account.

FIST 1090 – Firefighter I *Prerequisites: Medical screening compliant with NFPA 1582 Corequisites: FIST 2070*
This course includes the information and skills to perform basic firefighting functions on the fire ground. Upon completion, students can take the Nebraska State Firefighter I Certification Test. This course prepares students to meet the requirements of Firefighter I per NFPA 1001 Standard for Firefighter Professional Qualifications and Hazardous Materials Awareness per NFPA 472 Standard for Responders to Hazardous Materials Incidents. ****student must be 18 years or older**

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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HVAC Technology

Fort Omaha Campus – 30th and Fort – Construction Education Center

Year 1 Student 2018 - 2019

Dates	Course	Title	Credits	Times	Scheduled Days
September – November 2018					
	HVAC 1000	Refrigeration Electrical Theory	6.0	1:00 – 2:30	M-TH
December, 2018 – February, 2019					
	HVAC 1010	Refrigeration Service Principles	6.0	1:00 – 2:30	M-TH
March – May, 2019					
	HVAC 1020	Refrigeration Shop Practices	4.5	1:00 – 3:00	M,W
	HVAC 2310	Refrigeration Certification	2.0	1:00 – 3:00	TH
TOTAL CREDIT HOURS			18.5		

Year 2 Student 2018 – 2019 (students who took 1st year in 2017)

Dates	Course	Title	Credits	Times	Scheduled Days
September – November 2018					
	HVAC 1210	Gas Heat (First five weeks)	4.5	1:00 – 3:00	M-TH
	HVAC 1211	Electric Heat (Second five weeks)	4.5	1:00 – 3:00	M-TH
December, 2018 – February, 2019					
	CNST 1020	Blueprint Reading	4.5	1:00 – 3:00	M,W
	EMSP 1010	Heartsaver First Aid with CPR and AED (First three weeks)	1.0	12:30 – 3:10	F
	CNST 1110	Construction Safety (Next four weeks)	1.0	1:00 – 3:00	F
March – May, 2019					
	HVAC 1540	All Weather Syst. Conventional (First five weeks)	4.5	1:00 – 3:00	M-TH
	HVAC 2220	All Weather Syst. Heat Pump (Second five weeks)	4.5	1:00 – 3:00	M-TH
TOTAL CREDIT HOURS			24.5		

Year One

HVAC 1000 – Refrigeration Electrical Theory and Application

This course consists of lectures, discussions, and demonstrations in the general area of electrical theory and practice used in HVAC systems. It makes a general study of the electron theory as it relates to the electrical circuit and covers various circuits, resistance capacitance, symbols, and ladder diagrams. Students conduct lab experiments to provide understanding of electrical theory. The course places great emphasis upon safety, as students are working with actual controls and voltages.

HVAC 1010 – Refrigeration Service Principles and Basic Automatic Controls

This course provides experience in actual refrigeration service practice and stresses controls, system maintenance, and subassembly replacement. Students work out typical service problems and learn the fundamentals of controls, definitions, measurements, electric controls, safety controls, and refrigerant controls.

HVAC Technology cont'd.

HVAC 1020 – Refrigeration Shop Practices

This course provides practice in using tools in basic refrigeration jobs, such as tube bending, flaring, swaging, and soldering. Students become acquainted with standard shop tools and equipment so they can meet or exceed industry standards.

HVAC 2310 – Refrigeration Certification

This course covers the usage of EPA-approved equipment to remove, recycle, and reclaim refrigerant. Students take the EPA test with a pass or fail of 75 percent minimum.

Year Two

HVAC 1210 Gas Heat – Prerequisite HVAC 1000 - must be completed prior to taking this course.

Students examine, service, and troubleshoot various types of gas furnaces. The course covers heating fundamentals, including combustion and heat transfer, and explains heating components, including spark ignition. Special attention is given to safety.

HVAC 1211 Electric Heat – Prerequisite HVAC 1210 - must be completed prior to taking this course.

Students make a comprehensive study of electric furnace wiring for residential and light commercial installations. The course covers operating and safety controls in-depth and gives considerable time to proper care and use of test instruments, troubleshooting, and safety requirements.

HVAC 1540 All-Weather Systems (Conventional) – Prerequisite (1) HVAC 1210 - must be completed prior to taking this course.

The course emphasizes combination heating and cooling systems. The class and laboratory time deals primarily with natural gas heating and cooling systems. It also covers humidification, electronic air cleaning, and air filtering.

HVAC 2220 All-Weather Systems (Heat Pumps) – Prerequisite (1) HVAC 1211 - must be completed prior to taking this course.

This course covers the refrigerant cycle and the reverse cycle principle, including the reversing valve. It discusses special components and accessories used with heat pumps and devotes a considerable amount of instruction to electric controls found on heat pump systems and to the various services involved.

ELTR 2900 – Special Topics Students will be introduced to the benefits and application of SkillsUSA.

EMSP 1010 – Heartsaver First Aid with CPR and AED – This course teaches rescuers to effectively identify and treat adult emergencies in the critical first minutes of injury or illness until emergency medical service personnel arrive. The course provides basic training solutions for first aid, adult CPR, and automated external defibrillator.

CNST 1110 Construction Safety – This course provides training outlined by the Occupational Safety and Health Administration (OSHA). This course supplies students with the recommended safety requirements for working in the construction field.

CNST 1020 Blueprint Reading – This course teaches how to read and interpret residential architectural plans, including terms and definitions, architectural drawings, alphabet of lines, description of lines, and floor plan, electrical, plumbing, section, and mechanical symbols. It emphasizes reading an architect's scale. This course also includes extracting specified information from a set of building specifications and simple sketching procedures.

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

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Pre-APPRENTICESHIP PLUMBING

Fort Omaha Campus – 30th and Fort – Construction Education Center

Year 1 Student 2018 - 2019

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2018					
	PLBG 1010	Introduction to Plumbing*	6.5	1:00 – 3:00	MTWTH
December, 2018 – February, 2019					
	PLBG 1020	Basic Residential Plumbing*	9	1:00 – 3:00	MTWTH
	EMSP 1010	Heartsaver First Aid with CPR and AED (First three weeks)	1.0	12:30 – 3:10	F
	CNST 1110	Construction Safety (Next four weeks)	1.0	1:00 – 3:00	F
March – May, 2019					
	PLBG 1030	Basic Commercial Plumbing	9	1:00 – 3:00	MTWTH
TOTAL CREDIT HOURS			26.5		

***Courses must be passed to continue.**

Course Description:

PLBG 1010 Introduction to Plumbing - This course will introduce the students to the Plumbing Trade. The topics covered in this course will include plumbing history, plumbing tools, materials, safety, applicable math for the trade, work ethic, and careers in the industry.

PLBG 1020 Basic Residential Plumbing - Students continue to learn the residential side of plumbing, focusing mainly on wood structures, materials, and tools. The items discussed in this course direct attention on wood-framed structures such as single and multi-family dwellings along with the different types of materials and tools that are commonly used with these structures.

PLBG 1030 Basic Commercial Plumbing – Students study the commercial side of the plumbing trade. The focus is on metal stud framed, masonry, and concrete structures. The items discussed in the class direct attention to the metal, masonry, and concrete structures along with the different types of materials and tools that are common with these structures.

CNST 1110 – Construction Safety This course provides training outlined by the Occupational Safety and Health Administration (OSHA). This course supplies students with the recommended safety requirements for working in the construction field.

ELTR 2900 – Special Topics Students will be introduced to the benefits and application of SkillsUSA.

EMSP 1010 – Heartsaver First Aid with CPR and AED This course teaches rescuers to effectively identify and treat adult emergencies in the critical first minutes of injury or illness until emergency medical service personnel arrive. The course provides basic training solutions for first aid, adult CPR, and automated external defibrillator.

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

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THEATRE TECHNOLOGY

The Omaha Community Playhouse – 6915 Cass

Year 1 Student 2018 - 2019

Dates	Course	Title	Credits	Times	Scheduled Days
September – November, 2018					
	THEA 1110	Theatre Technology I	4	2:30 - 4:25	M, T, W, TH, F
	THEA 2981	Cooperative Study I	4	TBA	M, T, W, TH, F
December, 2018 – February, 2019					
	THEA 1120	Theatre Technology II	4	2:30 - 4:25	M, T, W, TH, F
	THEA 2982	Cooperative Study II	4	TBA	M, T, W, TH, F
March – May, 2019					
	THEA 1130	Theatre Technology III	4	2:30 - 4:25	M, T, W, TH, F
	THEA 2983	Cooperative Study III	4	TBA	M, T, W, TH, F
TOTAL CREDIT HOURS			24		

Year 2 Student 2018 – 2019 (students who took 1st year in 2017)

Dates	Course	Title	Credits	Times	Scheduled Days
June – July, 2018					
	THEA 2150	Stage Rigging	4.5	5:15 - 9:45 MW	
September – November, 2018					
	THEA 2160	Principles of Stage Lighting	4.5	5:00 - 9:00	TBA
	THEA 2984	Cooperative Study IV	4	TBA	TBA
December, 2018 – February, 2019					
	THEA 2985	Cooperative Study V	4	TBA	TBA
March – May, 2019					
	THEA 2986	Cooperative Study VI	4	TBA	TBA
TOTAL CREDIT HOURS			21		

Theatre students need to interview with Apprenticeship Coordinator. Call 402-553-4890, ext 131 to set up that appointment.

1. After completing the courses listed in the Year 1 program, students will have satisfied the requirements for a Career Certificate in Theatre Technology (THETD).
2. By taking 13.5 credits of Gen Ed (ENGL, MATH, and Humanities), students will have satisfied the requirements for the Certificate of Achievement in Theatre Technology (THETC) after Year 2 of the program. Ideal times to take those Gen Ed courses would be summer quarter between Year 1 & 2 as well as the Fall quarter of Year 2.
3. As a reminder, by taking all the courses listed on the previous pages the student (apprentice) will receive a U.S. Department of Labor Certificate, an Omaha Playhouse Certification of Skills, the THETD Career Certificate and the THETC Certificate of Achievement if the Gen Ed requirements are met.

THEATRE TECHNOLOGY cont'd.

COURSE DESCRIPTIONS

THEA 1110 – Theatre Technology I Beginning and experienced students learn the basic arts and crafts of technical theatre in a professional theatre environment. The course includes overviews of the procedure and safety issues and practices set construction, lighting, and costume. It is a prerequisite for admission to the certified Theatre Technology Apprentice program offered through the Omaha Community Playhouse.

THEA 1120 – Theatre Technology II *Prerequisite: THEA 1110* Students continue work begun in THEA 1110 with focus on real work situations and experiences. Topics include overview and practice in properties, scenic painting, and sound design and support. Students also begin work in their chosen areas of emphasis. These areas include sound, lights, construction, scenic painting, costume, props, stage management, box office, and house management.

THEA 1130 – Theatre Technology III *Prerequisite: THEA 1120* Students continue the work begun in THEA 1110 and 1120 with focus on real work situations and experiences, continuing their rotation within their selected artistic areas of emphasis. These areas include sound, lights, construction, scenic painting, costume, props, stage management, box office and house management. Students begin the process of career development through the creation of professional materials, such as resumes and portfolios.

THEA 2150 – Stage Rigging *Prerequisite: THEA 1110* The course builds on concepts and skills introduced in Theatre Technology I with specific emphasis on stage rigging. It covers rigging topics, including repair and maintenance, motorized rigging, trussing, and special applications in the lecture portion and reinforces them during labs under non-production conditions. Students apply fundamental skills in the installation of flying scenery, as well as use of stage rigging equipment under show conditions.

THEA 2160 – Principles of Stage Lighting *Prerequisite: THEA 1110* This course builds on concepts and skills introduced in THEA 1110 with specific emphasis on stage lighting. It covers lighting topics, including wiring and repair of electrical cables, basic color theory, and refraction principles in the lecture portion and reinforces them during labs under non-production conditions. Students apply fundamental skills in light console operation and temporary installations of lighting systems under show conditions.

THEA 2981, 2982, 2983, 2984, 2985, 2986 – Cooperative Study I, II, III, IV, V VI The Cooperative Study courses are special cooperative education experiences with the College and the Omaha Community Playhouse. The student works a minimum of 165 hours per quarter in conjunction with the Playhouse and its staff. Students who successfully complete this course sequence receive an apprentice certificate.

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

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UTILITY LINE TECHNICIAN

Applied Technology Center – 10407 State

Year 1 Student 2018 - 2019

Dates	Course	Title	Credits	Times	Scheduled Days
September – October, 2018 (five weeks)					
	UTIL 1030	Ropes, Rigging, and Safety	4.5	12:30 – 4:30	M, TH
October – November, 2018 (five weeks)					
	UTIL 1020	Electricity	5.5	12:30 – 4:30	M, TH,
December, 2018 – January, 2019 (five weeks)					
	UTIL 1240	Underground Distribution 1	5.5	12:30 – 4:30	M, TH
January – February, 2019 (five weeks)					
	UTIL 2020	Transformer Theory	5.5	12:30 – 4:30	M, TH
March – May, 2019					
	UTIL 2240	Underground Distribution 2	4.5	12:30 – 4:30	M, TH
TOTAL CREDIT HOURS			25.5		

UTIL 1030 Ropes, Rigging, and Safety – This is a hybrid course.

This course acquaints students with tools, equipment, basic rope knots, and splices, as well as the proper operation of utility equipment.

UTIL 1020 Electricity I – This is a hybrid course.

Students learn about electricity theory, Ohm's Law, series circuits, parallel circuits, and series/parallel circuits, including direct current and alternating current. This course also covers inductance, capacitance, and single-phase transformers. Math skills used in completing circuit computations are also taught.

UTIL 1240 Underground Distribution Systems I – This is a hybrid course.

This course introduces students to URD systems, underground cables, and apparatus. Students learn various termination techniques and construct a model URD system in the lab.

UTIL 2020 Transformer Theory – This is a hybrid course.

This course includes principles of electromagnetic induction, use and application of transformers, banking of transformers, calculating transformer loads, maintenance, testing, and proper connection of transformers.

UTIL 2240 Underground Distribution Systems II – This is a hybrid course.

This course emphasizes construction, maintenance, and troubleshooting of underground distribution systems, including trenching and termination and primary and secondary cables.

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

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WELDING AND FABRICATION TECHNOLOGY

Fort Omaha Campus – 30th and Fort – Construction Education Center

Student 2018 - 2019

Dates	Course	Title	Credits	Times	Scheduled Days
September – October, 2018					
	WELD 1100	Industrial Cutting Processes	3	1:00-3:10	M, T, W, TH
October - November, 2018					
	WELD 1300	Oxy Fuel Welding	3	1:00-3:10	M, T, W, TH
December, 2018 – January, 2019					
	WELD 1200	Gas Metal Arc Welding (MIG) - Steel I	3	1:00-3:10	M, T, W, TH
January – February, 2019					
	WELD 1400	Gas Tungsten Arc Welding (GTAW) - Steel 1	3	1:00-3:10	M, T, W, TH
December – February, 2019					
	WELD 1910	Special Topics in Welding-Skills USA Training I	1	1:15-2:45	F
March – April, 2019					
	WELD 1500	Shielded Metal Arc Welding (SMAW)	3	1:00-3:10	M, T, W, TH
April - May, 2019					
	WELD 1700	Introductory Fabrication	3	1:00-3:10	M, T, W, TH
TOTAL CREDIT HOURS			19		

Second year options are available for students wishing to continue.

Tools and Materials: 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.

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.

COURSE DESCRIPTIONS

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 1300 - Oxy-Acetylene Welding This course covers the basic skills and use of equipment necessary to be knowledgeable in this discipline. Students learn to weld various joint types in all positions with steel and braze filler materials. This is an excellent preparatory class for TIG welding classes.

WELD 1400 - Gas Tungsten Arc Welding (TIG) - Steel I This course emphasizes the theory and techniques used in basic gas tungsten arc welding of steel fillet and groove welds in the flat and vertical positions. It covers the equipment and its proper adjustment and also includes the many types of tungsten electrodes and the use of different gases.

Welding cont'd.

WELD 1500 - Shielded Metal Arc Welding (Stick) – Flat This course covers fundamental understanding and skills in the safe use of arc welding equipment. Typical operations include striking the arc, making fillet welds in the flat position, and making groove welds in the flat position. It uses a variety of methods to examine the weldments such as visual inspection, fillet weld break tests, and root/face bend test specimens.

WELD 1700 - Introductory Fabrication *Prerequisite: WELD 1100, WELD 1200*, This is a basic course in the fabrication of projects. It explores the use of layout tools and project drawings or sketches and emphasizes actual vs. estimated time and cost considerations.

WELD 1910 - Special Topics in Welding-Skills USA Training I Required course for all students. This course is designed for first year students to learn more about industry standards and help those who have signed up to participate in Skills USA state/national competition.

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

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