



New Program Report

Date Submitted:

08/30/2022

Institution

Mineral Area College

Site Information

Implementation Date:

1/01/2023 12:00:00 AM

Added Site(s):

Selected Site(s):

Mineral Area College, 5270 Flat River Road, Park Hills, MO, 63601

CIP Information

CIP Code:

150613

CIP Description:

A program that prepares individuals to apply basic engineering principles and technical skills to the identification and resolution of production problems in the manufacture of products. Includes instruction in machine operations, production line operations, engineering analysis, systems analysis, instrumentation, physical controls, automation, computer-aided manufacturing (CAM), manufacturing planning, quality control, and informational infrastructure.

CIP Program Title:

Manufacturing Engineering Technology/Technician

Institution Program Title:

Manufacturing Technology

Degree Level/Type

Degree Level:

Certificate >= 1 Year but < 2 Year

Degree Type:

Certificate 1

Options Added:

Collaborative Program:

N

Mode of Delivery

Current Mode of Delivery

Classroom

Hybrid

Student Preparation



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New Program Report

Special Admissions Procedure or Student Qualifications required:

None

Specific Population Characteristics to be served:

n/a

Faculty Characteristics

Special Requirements for Assignment of Teaching for this Degree/Certificate:

Bachelor of Science in Manufacturing or related field. Verifiable tested workplace skills and/or certifications.

Estimate Percentage of Credit Hours that will be assigned to full time faculty:

100%

Expectations for professional activities, special student contact, teaching/learning innovation:

The faculty will be expected to use various technologies in the classroom and lab environments. These include; personal computers, WIFI, Student Learning Management Systems, and stay current in the Manufacturing Technology Field and certification requirements of the industry.

Student Enrollment Projections Year One-Five

Year 1	Full Time: 6	Part Time: 3	
Year 2	Full Time: 6	Part Time: 3	
Year 3	Full Time: 6	Part Time: 3	Number of Graduates: 12
Year 4	Full Time: 6	Part Time: 3	
Year 5	Full Time: 6	Part Time: 3	Number of Graduates: 6

Percentage Statement:

75.00

Program Accreditation

Institutional Plans for Accreditation:

Upon approval of the Associate of Applied Science Degree from MDHEWD, the College will seek accreditation for the program from the Higher Learning Commission.

Students will also be eligible for certification opportunities through the following;

Manufacturing Skills Standards Council (MSSC) Safety Credential

Manufacturing Skills Standards Council (MSSC) Quality Control Credential

Manufacturing Skills Standards Council (MSSC) Processes and Production Credential

OSHA 30 General Industry Credential

Program Structure

Total Credits:

31

Residency Requirements:

15 credit hours from Mineral Area College

General Education Total Credits:

0



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New Program Report

Major Requirements Total Credits:

31

Course(s) Added

COURSE NUMBER	CREDITS	COURSE TITLE
TEC1970	3	Basic Numerical Controllers
TEC1580	3	Quality Control and Testing
TEC1710	3	Computer Integrated Mfg.
TEC1780	3	Blueprint Reading
TEC1930	3	General Industry Safety
EEE1970	3	Programmable Logic Controllers
TEC1560	3	Mfg. Process & Estimating
GUI1010	1	First Year Seminar
EEE1550	3	Electrical Systems
TEC1425	3	Elements of Automation
TEC1300	3	Computer Aided Design/Drafting

Free Elective Credits:

0

Internship or other Capstone Experience:

None

Assurances

I certify that the program is clearly within the institution's CBHE-approved mission. The proposed new program must be consistent with the institutional mission, as well as the principal planning priorities of the public institution, as set forth in the public institution's approved plan or plan update.

I certify that the program will be offered within the proposing institution's main campus or CBHE-approved off-site location.

I certify that the program will not unnecessarily duplicate an existing program of another Missouri institution in accordance with 6 CSR 10-4.010, subsection (9)(C) Submission of Academic Information, Data and New Programs.

I certify that the program will build upon existing programs and faculty expertise.

I certify that the program can be launched with minimal expense and falls within the institution's current operating budget.

I certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful. Institutions' decision to implement a program shall be based upon demand and/or need for the program in terms of meeting present and future needs of the locale, state, and nation based upon societal needs, and/or student needs.

Contact Information

First and Last Name: ROGER
MCMILLIAN

Email: rmcmillian@mineralrea.edu

Phone: 573-518-2157

ID#: _____

Student: _____

MINERAL AREA COLLEGE		
Certificate		
Manufacturing Technology		
CIP 15.0613		
Sem/Yr		Grade
_____	EEE1550 Electrical Systems	3 _____
_____	EEE1970 Programmable Logic Controllers	3 _____
_____	TEC1300 Computer Aided Design/Drafting	3 _____
_____	TEC1425 Elements of Automation	3 _____
_____	TEC1560 Mfg Process & Estimating	3 _____
_____	TEC1580 Quality Control & Testing	3 _____
_____	TEC1710 Computer Integrated Mfg*	3 _____
_____	TEC1790 Basic Numerical Controllers	3 _____
_____	TEC1780 Blueprint Reading	3 _____
_____	TEC1930 General Industry Safety	3 _____
_____	GUI1010 First Year Seminar	1 _____
Total Credit Hours		31

^ Recommended for students not planning to transfer.

+ Recommended for transfer students.

* Course has prerequisite. See MAC Catalog.

< No longer offered-will count if previously completed.

GPA: _____

Advisor: _____

GRADUATION POLICIES: (Diplomas and Certificates)

1. An Application for Graduation form must be filed with the Registrar's Office by the end of the second week of the fall and spring terms and by the end of the first week of the summer term. Contact advisor for assistance.
2. All degree applicants are required to complete an Exit Exam and a Technical Skills Assessment.
3. All applicants are required to complete a graduation interview with the Career Placement Office.
4. A minimum institutional and cumulative career GPA of 2.0 is required for graduation.
5. Fifteen (15) hours of Mineral Area College credit must be included in the degree.

 Signature Required
 Acknowledgement of Graduation Policies

 Date