



DEPARTMENT OF
HIGHER EDUCATION &
WORKFORCE DEVELOPMENT

New Program Report

Date Submitted:

04/20/2023

Institution

Ranken Technical College

Site Information

Implementation Date:

8/28/2023 12:00:00 AM

Added Site(s):

Selected Site(s):

Ranken Technical College, 4431 Finney Avenue, St. Louis, MO, 63113

Ranken West-Lincoln County Workforce Development Center, 651 John Deere Dr., Troy, MO, 63379

CIP Information

CIP Code:

480501

CIP Description:

A program that prepares individuals to apply technical knowledge and skills to plan, manufacture, assemble, test, and repair parts, mechanisms, machines, and structures in which materials are cast, formed, shaped, molded, heat treated, cut, twisted, pressed, fused, stamped or worked.

CIP Program Title:

Machine Tool Technology/Machinist

Institution Program Title:

Advanced Precision Machining Technology

Degree Level/Type

Degree Level:

Associate Degree

Degree Type:

Associate of Science

Options Added:

Collaborative Program:

N

Mode of Delivery

Current Mode of Delivery

Hybrid

Student Preparation

Special Admissions Procedure or Student Qualifications required:

See attachment



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Specific Population Characteristics to be served:

See attachment

Faculty Characteristics

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

See attachment

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

See attachment

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

See attachment

Student Enrollment Projections Year One-Five

| | | | |
|--------|---------------|--------------|----------------------------|
| Year 1 | Full Time: 15 | Part Time: 0 | |
| Year 2 | Full Time: 15 | Part Time: 0 | |
| Year 3 | Full Time: 15 | Part Time: 0 | Number of Graduates: 15 |
| Year 4 | Full Time: 15 | Part Time: 0 | |
| Year 1 | Full Time: 15 | Part Time: 0 | |
| Year 2 | Full Time: 15 | Part Time: 0 | |
| Year 3 | Full Time: 15 | Part Time: 0 | Number of Graduates: 15 |
| Year 4 | Full Time: 15 | Part Time: 0 | |
| Year 5 | Full Time: 15 | Part Time: 0 | Number of Graduates: 15 |

Percentage Statement:

n/a

Program Accreditation

Institutional Plans for Accreditation:

See attachment

Program Structure

Total Credits:

90

Residency Requirements:

Minimum of 45 credit hours must be completed at Ranken Technical College

General Education Total Credits:

39

Major Requirements Total Credits:

51



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Course(s) Added

| COURSE NUMBER | CREDITS | COURSE TITLE |
|---------------|---------|--|
| APM 1110 | 12 | Machining Theory and Applied Foundations |
| APM 2115 | 5 | Professional Internship III |
| APM 1205 | 5 | Professional Internship I |
| APM 1210 | 8 | CNC Mill Programming |
| APM 2015 | 5 | Professional Internship II |
| APM 2110 | 8 | CAD and CAM Programming |
| APM 2010 | 8 | CNC Lathe Programming |

Free Elective Credits:

0

Internship or other Capstone Experience:

N/A

Assurances

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 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

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