

Program Outcomes (PROGRAM level)

MCC CTE Program: Engineering Technology- Mechanical/Manufacturing Engineering Technology

CTE or Occupational **Program Outcome**: Students will demonstrate the ability to apply foundational skills in an engineering technology setting, safely and to industry guidelines.

Expected Student Outcome (Performance Criteria or Indicator)	Curriculum or Courses (Strategies)	Assessment Method(s)	Context for Assessment	Time of data collection	Assessment Coordinator	Evaluation of Results
Demonstrate an understanding of OSHA regulations as used industry	EHSS 111	Locally developed assignments, rubrics, exams, labs, and projects	EHSS 111	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, EHSS Faculty and Advisory Committee
Demonstrate safe work practices in the classroom and lab settings	EHSS 111 MATE 130 MATE 210 MATE 215 MATE 220	Locally developed assignments, rubrics, exams, labs, and projects	EHSS 111 MATE 130 MATE 210 MATE 215 MATE 220	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee
Demonstrate ability to operate manufacturing equipment and mechanical design technology	MATE 130 MATE 210 MATE 215 MATE 220 ETEC 152 ETEC 269 ETEC 270 ETEC 271	Locally developed assignments, rubrics, exams, labs, and projects	MATE 130 MATE 210 MATE 215 MATE 220 ETEC 152 ETEC 269 ETEC 270 ETEC 271	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee
Demonstrate basic knowledge CNC programming and layout.	MATE 210 MATE 215 MATE 220	Locally developed assignments, rubrics, exams, labs, and projects	MATE 210 MATE 215 MATE 220	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee

Results _____ (date):

Actions _____ (date):

Second-Cycle Results _____ (date):

Program Outcomes (PROGRAM level)

MCC CTE Program: Engineering Technology- Mechanical/Manufacturing Engineering Technology

CTE or Occupational **Program Outcome**: Students will demonstrate professional oral and written communication skills.

Expected Student Outcome (Performance Criteria or Indicator)	Curriculum or Courses (Strategies)	Assessment Method(s)	Context for Assessment	Time of data collection	Assessment Coordinator	Evaluation of Results
Demonstrate appropriate interpersonal skills and written communication related to obtaining and retaining employment in a technical field.	ENGR 101 ETEC 152 ETEC 189 ETEC 190 ETEC 191	Portfolio, supervisor interview, employment journal	ENGR 101 ETEC 152 ETEC 189 ETEC 190 ETEC 191	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee
Demonstrate appropriate oral , written, and technical/electronic communication skills	ETEC 152 ETEC 269 SPDR 100 SPAN 100 ENGL 215 ENGR 101	Written assignments/ design journal/discussion board assignments	ETEC 152 ETEC 269 SPDR 100 SPAN 100 ENGL 215 ENGR 101	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee

Results _____ (date):

Actions _____ (date):

Second-Cycle Results _____ (date):

Program Outcomes (PROGRAM level)

**MCC CTE Program: Engineering Technology- Mechanical/Manufacturing Engineering Technology
 CTE or Occupational Program Outcome: Students will think critically and apply problem-solving skills.**

Expected Student Outcome (Performance Criteria or Indicator)	Curriculum or Courses (Strategies)	Assessment Method(s)	Context for Assessment	Time of data collection	Assessment Coordinator	Evaluation of Results
Demonstrate skill using mathematical equations to solve problems in the field of engineering technology.	MATH 180 ETEC 152 ETEC 153 ETEC 200 ETEC 258 MATE 130 MATE 201 PHYS 130	Locally developed assignments, exams, labs, and projects	MATH 180 ETEC 152 ETEC 153 ETEC 200 ETEC 258 MATE 130 MATE 201 PHYS 130	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee

Results _____ (date):

Actions _____ (date):

Second-Cycle Results _____ (date):

Program Outcomes (PROGRAM level)

MCC CTE Program: Engineering Technology – Mechanical/Manufacturing Engineering Technology

CTE or Occupational **Program Outcome**: The program will graduate individuals who exhibit competence in the entry-level skills of technical profession in engineering technology.

Expected Student Outcome (Performance Criteria or Indicator)	Curriculum or Courses (Strategies)	Assessment Method(s)	Context for Assessment	Time of data collection	Assessment Coordinator	Evaluation of Results
Demonstrate an understanding of basic manufacturing processes and methods	MATE 130 MATE 201 MATE 210 MATE 215 ETEC 258	Locally developed assignments, exams, labs, and projects	MATE 130 MATE 201 MATE 210 MATE 215 ETEC 258	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee
Demonstrate ability to design mechanical components	ETEC 152 ETEC 153 ETEC 258 ETEC 270 ETEC 271	Locally developed assignments, exams, labs, and projects	ETEC 152 ETEC 153 ETEC 258 ETEC 270 ETEC 271	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee
Demonstrate a basic understanding of machine systems	ETEC 153 ETEC 258 ETEC 200	Locally developed assignments, exams, labs, and projects	ETEC 153 ETEC 258 ETEC 200	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee
Demonstrate a basic understanding of materials and material selection	ETEC 258 ETEC 200 MATE 201	Locally developed assignments, exams, labs, and projects	ETEC 258 ETEC 200 MATE 201	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee

Results _____ (date):

Actions _____ (date):

Second-Cycle Results _____ (date):