

Program Outcomes (PROGRAM level)

MCC CTE Program: Engineering Technology- Civil 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	ETED Coordinator	ETEC Coordinator, EHSS Faculty and Advisory Committee
Demonstrate knowledge of drafting and CADD standards and procedures	ETEC 152 ETEC 153 ETEC 265 ETEC 269 ETEC 170	Locally developed assignments, rubrics, exams, labs, and projects	ETEC 152 ETEC 153 ETEC 265 ETEC 269 ETEC 170	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee
Demonstrate basic surveying knowledge and skills	SRVY 135 SRVY 235 ETEC 265	Locally developed assignments, rubrics, exams, labs, and projects	SRVY 135 SRVY 235 ETEC 265	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee
Demonstrate basic knowledge of and skills in Geographic Information Systems (GIS)	GEOG 120 GEOG 220	Locally developed assignments, rubrics, exams, labs, and projects	GEOG 120 GEOG 220	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee

Results _____ (date):

Actions _____ (date):

Second-Cycle Results _____ (date):

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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 268 ETEC 269 ETEC 265 SPDR 100 SPAN 100 ENGL 215 ENGR 101 SRVY 135 SRVY 235	Written assignments/ design journal/discussion board assignments	ETEC 152 ETEC 268 ETEC 269 ETEC 265 SPDR 100 SPAN 100 ENGL 215 ENGR 101 SRVY 135 SRVY 235	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 – Civil 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 SRVY 135 SRVY 235 ETEC 265 PHYS 130	Locally developed assignments, exams, labs, and projects	MATH 180 ETEC 152 ETEC 153 SRVY 135 SRVY 235 ETEC 265 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 – Civil 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 ability to collect and organize survey data	SRVY 135 SRVY 235 ETEC 265	Locally developed assignments, exams, labs, and projects	SRVY 135 SRVY 235 ETED 265	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee
Demonstrate ability to use GIS technology	GEOG 120 GEOG 220	Locally developed assignments, exams, labs, and projects	GEOG 120 GEOG 220	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee
Demonstrate ability to produce civil engineering and construction documents	ETEC 152 ETEC 269 ETEC 265 GEOG 120 GEOG 220	Locally developed assignments, exams, labs, and projects	ETEC 152 ETEC 269 ETEC 265 GEOG 120 GEOG 220	Fall and Spring Semesters	ETEC Coordinator	ETEC Coordinator, ETEC Faculty and Advisory Committee