2018-2019 TTC Catalog

Mechanical Engineering Technology

Mechanical Engineering Technology

Associate in Applied Science

71 Credit Hours

The Mechanical Engineering Technology program prepares students for employment as engineering technicians with industry, consulting engineering firms, public utilities and governmental agencies. Graduates typically obtain jobs as heating, ventilation and air conditioning technicians, machine parts and marine drafters, engineering assistants, field engineer technicians, quality control technicians, mechanical design technicians, and product development technicians.

General Education Core Requirements

ENG 101 English Composition I 3
MAT 170 Algebra, Geometry and Trigonometry I 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

EEM 251 Programmable Controllers 3
EET 113 Electrical Circuits I 4
EET 131 Active Devices 4
EET 145 Digital Circuits 4
EGR 104 Engineering Technology Foundations 3
EGR 110 Introduction to Computer Environment 3
EGR 170 Engineering Materials 3
EGR 175 Manufacturing Processes 3
EGR 194 Statics and Strength of Materials 4
EGR 234 Control Principles 3
EGR 255 Engineering Technology Senior Systems Project 2
EGR 290 Numerical Applications in Engineering Technology 3
EGT 130 Geometric Dimensioning and Tolerancing Applications 3
EGT 151 Introduction to CAD 3

MET 233 Applied Thermal Principles 4
MET 237 Fluids: Principles and Application 4

Total: 53

Electives

Select one course from the following.

ACR 210 Heat Pumps 4
EEM 252 Programmable Controllers Applications 3
EGT 152 Fundamentals of CAD 3

Total: 3-4

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.