

APPLIED ENGINEERING & TECHNOLOGIES

Mechanical Engineering Technology

Mechanical Engineering Technology Degree - A40320

The Mechanical Engineering Technology curriculum provides a board and diverse educational experience. Course work includes computer-aided drafting and design, applied mechanics, materials engineering, quality control, manufacturing methods and processes, computer usage, mathematics, physics and oral and written communications. The courses will stress critical thinking, planning and problem solving.

The diversity of Mechanical Engineering Technology degree enables students to pursue exciting careers in following fields:

- Engineering/Architectural
- Mechanical Design
- Manufacturing
- Quality
- Service

If elected, students can pursue a 4 year Engineering Technology degree after graduation.

Mechanical Design Certificate - C40320B

Study of design elements for CAD users.

Thermal Mechanics Certificate - C40320C

The Thermal Mechanics Certificate provides a refresher or a concentration in thermal sciences.

Materials Engineering Certificate - C40320D

The Materials Engineering Certificate will provide students with an understanding of engineering materials and processes.

Additive Manufacturing Certificate - C40320G

The Additive Manufacturing Certificate will help students understand modeling and manufacturing processes used in additive manufacturing such as 3D printing.

Mechanical Drafting Certificate – C40320H

Mechatronics Certificate – C40320I

Program Sequence

First Semester

DFT 151	CAD I.....	3
EGR 115	Introduction to Technology.....	3
MEC 161	Manufacturing Processes I	3
ENG 111	Expository Writing	3
MAT 121	Algebra/Trigonometry I.....	3

Second Semester

DFT 152	CAD II.....	3
DFT 153	CAD III.....	3
MEC 130	Mechanisms.....	3
ENG 114	Professional Research and Reporting	3
PHY 131	Physics-Mechanics	4

Third Semester

TDP 110	Intro to 3D Printing	3
PSY 118	Interpersonal Psychology.....	3

Fourth Semester

DFT 154	Intro to Solid Modeling.....	3
EGR 251	Statics.....	3
MEC 180	Manufacturing Materials	3
MEC 265	Fluid Mechanics.....	3
Elective List I	3

Complete Mechanical Design Certificate (C40320B): DFT 151, DFT 154, MEC 130, MEC 180

Complete Materials Engineering Certificate (C40320D): DFT 151, MEC 130, MEC 161, MEC 180

Complete Additive Manufacturing Certificate (C40320G): DFT 151, DFT 154, MEC 161, MEC 180, TDP 110

Complete Mechanical Drafting Certificate (C40320H): DFT 151, DFT 152, DFT 153, DFT 154, TDP 110

Complete Mechatronics Certificate (C40320I): ELN 260 + MEC 130, MEC 161, MEC 265

Fifth Semester

EGR 252	Strength of Materials	3
EGR 285	Design Project	2
ISC 121	Env Health and Safety.....	3
MEC 267	Thermal Systems.....	3
HUM 110	Technology and Society	3

Complete Thermal Mechanics Certificate (C40320C): DFT 154, MEC 180, MEC 265, MEC 267

Elective List I.....(Select 3 hours from the following courses)

ARC 225	Architectural BIM I	2
ARC 225A	Architectural BIM I Lab	1
CEG 111	Introduction to GIS and Gns	4
ELC 128	Introduction to PLC.....	3

WBL 111	Work-Based Learning I.....	1
WBL 112	Work-Based Learning I.....	2

Graduation Requirements 66 Credit Hours