

School of Engineering Undergraduate Certificate Program

Mechanical Engineering Technology

This certificate program is designed for those working in mechanical engineering technology or related fields. It is a sequential three-phase series that will provide a solid foundation in engineering technology and can lead to an associate or baccalaureate degree in Mechanical Engineering Technology. Each segment must be completed in its entirety and in order. Once complete, students will have earned three (3) certificates in mechanical engineering technology applications.

Basic – 18 credits

Required Course	Course Description	Number of Credits
MET 107	Computer Applications for Technologists	3
EG T 120	Introduction to Graphics and Solids Modeling	3
IET 101	Manufacturing Materials, Processes and Lab	3
MATH 081	Technical Mathematics I	3
ENGL 015	Rhetoric and Composition	3
CAS 100	Effective Speech Communication	3

Fundamental – 13 credits

Required Course	Course Description	Number of Credits
EG T 121	Applied Solids Modeling	3
IET 215	Production Design	2
IET 216	Production Design Lab	2
MCH T 111	Mechanics for Technology: Statics	3
MATH 082	Technical Mathematics II	3

Mechanical Design – 10 credits

Required Course	Course Description	Number of Credits
MCH T 213	Strength and Properties of Materials	3
MCH T 214	Strength and Properties of Materials lab	1
MET 206	Dynamics and Machine Elements	3
MET 210W	Product Design	3