

Applied Engineering Technology, Certificate

School of Technology

Program Description

Students in the Applied Engineering Technology Certificate learn basic engineering principles and technical skills to solve technical problems in various types of industry. Designed to be flexible, the program allows students to choose from a range of fields including welding and drafting among others that are developed as industry trends demand. With this combination of classes, students will develop problem solving as well as lab and technical based skills needed for entry-level jobs as maintenance technicians. Successful completion of the program leads to the Applied Engineering Technology Certificate.

Career Opportunities

The Applied Engineering Technology Certificate is a good primer for students seeking an entry-level job in a wide range of positions in research and development, manufacturing, sales, design, inspection, or maintenance. This certificate also serves well for those already working, seeking to supplement their career with more in-depth knowledge of engineering, drafting, and welding.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Communicate technical information effectively
- Demonstrate scientific observation skills
- Operate equipment and/or relevant software
- Promote safety and quality in the workplace

Sugg. Term	Seq #	Course ID	Course Title	Cr	Prereq/Coreq(Co)	Options Available
1st Fall	1	ENG 161	College Writing	3	ENG 085 with Permission of Instructor, ENG 095 or Placement	
	2	MTH 104	Introduction to Applied Mathematics	3-4	MTH 050 or Placement	*MTH 157 (3 credits)
	3	DFT 105	Technical Drafting I	4		
	4	EGR 101	Introduction to Engineering	3	Co: MTH 104 or MTH 157	
1st Spring	5	ENG 162	Technical Communication	3	ENG 161	ENG 163
	6	MTH 108	Math for Technologies	4	MTH 104 (C or better) or Placement	*MTH 167 (3 credits)
	7	EGR 210	Quality Control	3	EGR 101 or Permission of Instructor; MTH 172 or Permission of Instructor	
	8	MET 105	Welding Metallurgy	3	Varies	DFT 112 *EGR Advisor for AAS option
	9	WEL 224	NDT and DT	3	MET 105	*EGR Advisor for AAS option

Minimum Program Credits

29-30

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*If MTH 157 is selected, the second math course must be MTH 167