

Engineering Technology, AAS

School of Technology

Program Description

The Engineering Technology AAS is designed to prepare students for an entry-level position in STEM-related industries and businesses.

Career Opportunities

Many positions are available in companies looking for workers with a solid STEM education and background. This program can give you the edge in securing an entry-level position in such companies with a two-year associate of applied science degree. The range of opportunities is almost limitless as the need for workers with solid skills in applied science, technology, engineering, and mathematics will continue to be in high demand. A partial list of job titles that apply to this degree includes manufacturing engineering technologist; electromechanical engineering technologist; industrial engineering technologist or technician; nanotechnology engineering technologist; sales engineering technician; materials engineering technologist; mechanical engineering technologist or technician; and civil engineering technician.

Program Learning Outcomes

Upon successfully completing this program, students will be able to:

- Utilize strong analytical, problem-solving, organizational, communication, and team skills.
- Apply concepts of physics (mechanics, thermo-fluids, vibrations, electricity and magnetism, and optics), mathematics (up through a first course in calculus/analytic geometry), engineering (materials, manufacturing processes, descriptive geometry, statics, strength of materials, quality control, and kinematics), and technology (HP-50g®, Excel®, AutoCAD®, Inventor®/Solid Works® and Python®) to the design and analysis of engineering systems.
- Gain entry-level positions in a wide variety of STEM-related industries and business.
- Become a life-long learner not only through formal training and education but also by self-study.
- Be well rounded with interests that include leadership, volunteerism, and community building.
- Appreciate the importance of ethical engineering and good citizenship in all aspects of life and the engineering profession.

Sugg. Term	Seq #	Course ID	Course Title	Cr	Prereq/Coreq(Co)	Options Available
1st Fall	1	PDV 101	First Year Seminar	1		
	2	DFT 105	Technical Drafting I	4		
	3	MTH 157	College Algebra	3	MTH 100 or Placement	MTH 170
	4	EGR 101	Introduction to Engineering I	3	Co: MTH 104 or MTH 157	
	5	EGR 110	Descriptive Geometry	3		
	6	ENG 161	College Writing	3	ENG 085 or Placement	
1st Spring	7	DFT 112	Introduction to Design, Materials and Processing	3		
	8	MTH 167	College Trigonometry	3	MTH 157 or Placement	MTH 170
	9	DFT 266	3D Solid Modeling I	4		
	10	EGR 104	Engineering Materials	3	EGR 101	
	11	ENG 162	Technical Communication	3	ENG 161	ENG 163 or ENG 164
2nd Fall	12	MTH 172	Analytical Geometry & Calculus I	4	"C" Grade or Better in MTH 109, MTH 167 or MTH 170 or Placement	
	13	PHY 155	College Physics I	4	MTH 100 or MTH 108 and PHY 110 or HS Physics	
	14	DFT 258	AutoCAD	4		
	15	EGR 221	Statics & Strength of Materials	4	EGR 101	
2nd Spring	16	PHY 156	College Physics II	4	PHY 155	
	17	EGR 210	Quality Control	3	EGR 101 or Permission of Instructor; Co: MTH 172 or Permission of Instructor	
	18	EGR 227	Kinematics	3	EGR 101	
	19	Elective	Social Science	3		Page 47 Column III

Minimum Program Credits

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