

Engineering Technology, AAS

School of Technology

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, 100A or Placement | MTH 170 |
| | 4 | EGR 101 | Introduction to Engineering I | 3 | MTH 104 or MTH 157 (Co) | |
| | 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 Processes | 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 | | |
| | 11 | ENG 162 | Technical Communication | 3 | ENG 161 | ENG 163 or 164 |
| 2nd Fall | 12 | MTH 172 | Analytical Geometry & Calculus I | 4 | C or better in one of: MTH 109, MTH 167, or MTH 170 or Placement | |
| | 13 | PHY 155 | College Physics I | 4 | MTH 100, 100A or 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 | MTH 172, EGR 101 | |
| | 18 | EGR 227 | Kinematics | 3 | EGR 101 | |
| | 19 | Elective | Social Science | 3 | | Page 25 Column III |

Total Program Credits

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