

# Engineering Technology

## Associate in Applied Science

Leading to a Baccalaureate degree in Engineering Technology through WMU

**Career Pathway:** Engineering/Manufacturing and Industrial Technology

**Career Cluster:** Manufacturing

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The Engineering Technology curriculum is for those individuals who desire to apply established scientific and engineering knowledge to the solutions of industrial problems. Graduates often work for major technological companies in areas which deal with application, manufacturing, implementation, engineering operation, sales, and production. They are often the "implementers" of designs and plans. Engineering technicians usually work as part of a team with the craftsman and the engineer, working closest to the engineer in duties and responsibilities. Graduates with an associate's degree often continue on to complete a bachelor's degree and become engineering technologists. Technologists tend to hold more supervisory and managerial positions due to their advanced degree. For detailed information concerning occupational outlook and wage information, visit the O\*NET online website at:

<http://online.onetcenter.org>

\*NOTE: This degree is designed to transfer into three different bachelor's degrees in engineering technology at Western Michigan University. Engineering Design Technology (EDT), Manufacturing Engineering Technology (MFT), or Engineering Management Technology (UEM). Electives should be chosen based on the curriculum you select. For more information about WMU's degrees, consult their website at <http://www.wmich.edu/engineer/academics>

### Prerequisites

- ♦ You will need to demonstrate proficiencies in reading, mathematics and English based on SMC assessment tests, ACT or SAT scores or by taking the recommended courses.
- ♦ Some of the courses in this curriculum have specific prerequisites. These are described in the course descriptions.

### General Education Requirements

The general education courses listed for this degree require a C (2.0) or better for graduation. See "General Education Requirements" for more information and full listing of all general education courses.

Course	Credits
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### Prerequisite Courses

CHEM 100	Fundamentals of Chemistry (or competency)	4
MATH 127	College Algebra (or competency)	4

### Semester I

CADD 101	Intro to CAD/Auto CAD	4
ENGL 103	Freshman English II OR	3
ENGL 103W	Freshman English II w Workshop	4
INTE 140	Blueprint Reading	2
MATH 136	Precalculus Algebra	4
SPEE 104	Intro to Human Communications	3

### Semester II

CADD 104	Engineering Graphics II	4
CHEM 101	General Chemistry I	5
MATH 131	Precalculus Trigonometry	3
POSC 201	American Government	3
	<b>OR</b>	
	AREA III Elective	(3)

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**Course Credits**

**Semester III**

INTE 126	Intro to Manufacturing Systems	3
MATH 141	Analytical Geometry/Calculus I	4
PHYS 101	Introductory Physics I	5
HUMA 210	Intro to Non-Western Civilization	4
	<b>OR</b>	
	AREA I Elective	(3)

**Semester IV**

PHYS 102	Introductory Physics II	5
ECON 202	Microeconomics	3
PHED 103	Life Wellness	2
	AREA II Elective	3
	WMU Elective	3

**GENERAL EDUCATION COURSES ACCEPTED BY WMU.**

AREA I	ART 110, 148, 203, 204 ENGL 223 HUMA 204, 205 MUSI 110, 111
AREA II	ENGL 231, 232, 241, 251, 256, 282, 291, 292 HIST 101, 102 PHIL 101, 201, 210
AREA III	HIST 201, 202 HUMA 202 POSC 201
AREA IV	HUMA 210 SOCI 101

**WMU ELECTIVES** – Choose based on curriculum selected at WMU

**Course Credits**

ACCO 201	Principles of Accounting I (UEM)
CADD 110	Descriptive Geometry (EDT)
MATH 142	Analytical Geometry and Calculus II (EDT)

**Total Program Credits \*62-64**