



Mechanical Engineering Technology Associate of Applied Science

EFFECTIVE BEGINNING ACADEMIC YEAR 2025-26

LAST REVISED: March 2, 2026

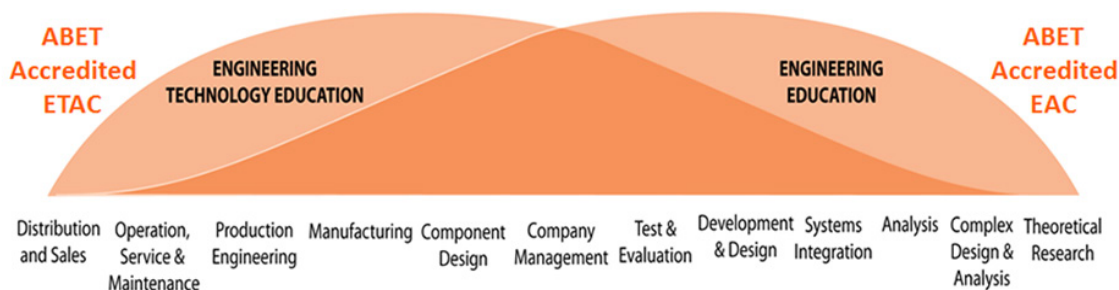
“Engineering and engineering technology are separate but closely related professional areas that differ in:

Curricular Focus – Engineering programs often focus on theory and conceptual design, while engineering technology programs usually focus on application and implementation. Engineering programs typically require additional, higher-level mathematics, including multiple semesters of calculus and calculus-based theoretical science courses, while engineering technology programs typically focus on algebra, trigonometry, applied calculus, and other courses that are more practical than theoretical in nature.

Career Paths – Graduates from engineering programs are called engineers and often pursue entry-level work involving conceptual design or research and development. Many continue on to graduate-level work in engineering. Graduates of four-year engineering technology programs are called technologists, while graduates of two-year engineering technology programs are called technicians.

These professionals are most likely to enter positions in sectors such as construction, manufacturing, product design, testing, or technical services and sales. Those who pursue further study often consider engineering, facilities management, or business administration.

There is much overlap between the fields. Engineers may pursue MBAs and open their own consulting firms, while technologists may spend their entire careers in design capacities.”



Students who earn an Associate of Applied Science (AAS) degree in Mechanical Engineering Technology are able to enter the workforce. However, those who are interested in also earning a bachelor’s degree at some point in time may use the Ohio Guaranteed Transfer Pathway, detailed below, to transfer and apply the credits earned during their AAS program toward a bachelor’s degree in Engineering Technology at a public four-year institution of higher education in Ohio.

Sources: Definition comes from the Accreditation Board for Engineering and Technology (ABET), and the graphic comes from the American Society of Mechanical Engineers (ASME).



Transfer Credit Ohio

Ohio Guaranteed Transfer Pathways

STARK STATE COLLEGE

Mechanical Engineering Technology

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GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		COURSE NUMBER	CREDIT HOURS
ENGLISH COMPOSITION AND ORAL COMMUNICATION			3
Course 1:	Any Ohio Transfer 36 approved First Writing (TME001) course	ENG 124	3
MATHEMATICS, STATISTICS, AND LOGIC			5
Course 1:	Precalculus (TMM002) or College Algebra (TMM001) and Trigonometry (TMM003) ¹	MTH 135	5
ARTS AND HUMANITIES			3
Course 1:	Any Ohio Transfer 36 approved Arts and Humanities course	Ohio Transfer 36 Elective	3
SOCIAL AND BEHAVIORAL SCIENCES			0
Course 1:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course ²	--	0
NATURAL SCIENCES			4
Course 1:	Algebra-based Physics I (OSC014)	PHY 121	4
GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:³			15
Advising Notes: Where it indicates "Any Ohio Transfer 36 approved," students should work closely with their advisors. ¹ Calculus (TMM005) is recommended, either in fulfillment of the mathematics requirement or as an elective course, since certain bachelor degree programs prefer that Calculus be taken prior to transfer in order to allow students to complete the program most efficiently. However, there are also bachelor degree programs that will incorporate Calculus into the remaining coursework upon transfer. Students should work with their academic advisor and their intended receiving institution to determine the best program of study. ² Stark State's program does not include an Ohio Transfer 36 Social & Behavioral Sciences course. This course will need to be taken during the bachelor degree program. Please anticipate additional credit hours in addition to the remaining coursework listed in the bachelor's degree completion pathway. ³ Beginning in academic year 2029-2030, all bachelor-degree granting programs will require the successful completion of an American Civic Literacy course as a graduation requirement. Please work closely with your academic advisor to choose an approved course. See here for the list of approved American Civic Literacy courses.			

ADDITIONAL/APPLIED GENERAL EDUCATION REQUIREMENTS		COURSE NUMBER	CREDIT HOURS
Course 1:	Algebra-based Physics II (OSC015) (preferred) or other Ohio Transfer 36 Natural Sciences course ¹	--	--
Course 2:	Public Speaking (OCM013), Oral Communication (TMOC), Technical Writing, or Second Writing (TME002) course	ENG 221	3
ADDITIONAL/APPLIED GENERAL EDUCATION TOTAL:			3
Advising Notes: ¹ Stark State's program does not include this course. Please anticipate additional credit hours in addition to the remaining coursework listed in the bachelor's degree completion pathway.			



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PRE-MAJOR/BEGINNING MAJOR		COURSE NUMBER	CREDIT HOURS
Course 1:	Statics (OET007)	MET 124	4
Course 2:	Strength of Materials (OET008)	MET 221	2
Course 3:	Fluid Mechanics (OET009)	MET 222	4
Course 4:	Manufacturing Processes (OET010)	MET 225	3
Course 5:	CAD (OET012)	DET 125	3
Course 6:	Engineering Materials (OET013)	MET123 (To be submitted) ¹	3
PRE-MAJOR/BEGINNING MAJOR TOTAL:			19

Advising Notes:

¹ "To be submitted" indicates that this course does not yet carry that the statewide course equivalency guarantee. However, the institution is working towards this goal. Please consult with your institution's point of contact listed below for guidance on enrollment in this course.

ADDITIONAL COURSEWORK	COURSE NUMBER	CREDIT HOURS
Technical Electives (Recommended: Engineering Graphics, Programming Languages, Machine Design, and/or a second Manufacturing Processes course)	SSC 101	1
	DET 121	3
	MET 223	2
	EST 230	4
	MET 226	2
	MET 227	3
	DET 230	3
	MET 228	4
	ITD 122	3
OTHER RECOMMENDATIONS TOTAL:		25

APPLIED ASSOCIATE DEGREE	Total Credit Hours
APPLIED ASSOCIATE DEGREE TOTAL:	62

SPECIAL NOTES

Some bachelor-degree granting programs may be competitive and admission into the program is not guaranteed. Students should check with individual institutions for their program admission requirements.

Bachelor-degree granting institutions may require additional general education courses since students will not complete the Ohio Transfer 36 by following this pathway and will take these courses upon transfer.

For additional information, please contact:

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SAMPLE DEGREE MAP

FIRST YEAR

SEMESTER 1		SEMESTER 2	
COURSE NAME & NUMBER	CREDIT HOURS	COURSE NAME & NUMBER	CREDIT HOURS
SSC 101 Student Success Seminar	1	DET 125 Basic AutoCAD	3
DET 121 Engineering Drawing	3	MET 124 Statics and Strength of Materials	4
ENG 124 College Composition	3	MET 225 Manufacturing Processes	3
MET 123 Material Science	3	PHY 121 College Physics I with Algebra (lab)	4
MTH 135 Precalculus	5		
ITD 122 Computer Apps for Professionals	3		
Total SEMESTER 1 Credit Hours	18	Total SEMESTER 2 Credit Hours	14

SECOND YEAR

SEMESTER 3		SEMESTER 4	
COURSE NAME & NUMBER	CREDIT HOURS	COURSE NAME & NUMBER	CREDIT HOURS
DET 230 AutoCAD Inventor with 3D Printing and Scanning	3	EST 230 Electrical Circuits and Devices	4
MET 221 Advanced Strength of Materials	2	MET 223 Dynamics	2
MET 222 Fluid Power	4	MET 226 Tech Project-Mechanical and Design	2
MET 228 Machine Design	4	MET 227 Thermodynamics and Heat Transfer	3
		ENG 221 Technical Report Writing	3
		Ohio Transfer 36 Arts & Humanities Elective	3
Total SEMESTER 3 Credit Hours	13	Total SEMESTER 4 Credit Hours	17