Transfer Credit Ohio

Ohio Guaranteed Transfer Pathways

SINCLAIR COLLEGE

Electrical Engineering Technology

Associate of Applied Science

EFFECTIVE BEGINNING ACADEMIC YEAR 2024-25

LAST REVISED: April 30, 2025

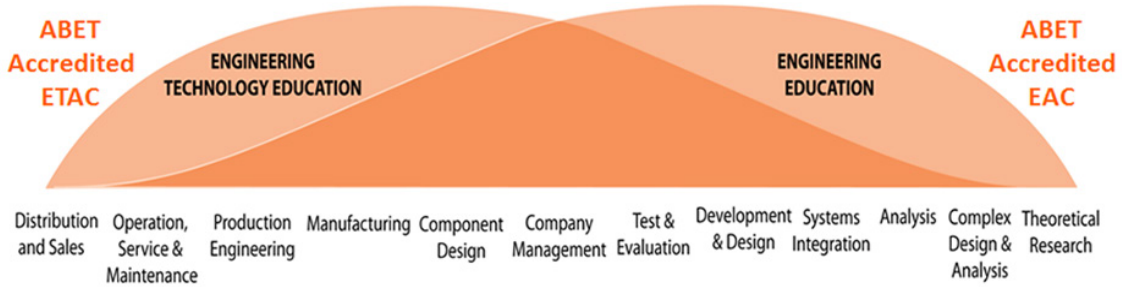
"Engineering and engineering technology are separate but closely related professional areas that differ in:

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 Electrical 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).

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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 1101	3
MATHEMATICS, STATISTICS, AND LOGIC			**5**
Course 1:	Precalculus (TMM002) or College Algebra (TMM001) and Trigonometry (TMM003)[1]	MAT 1580	5
ARTS AND HUMANITIES			**0**
Course 1:	Any Ohio Transfer 36 approved Arts and Humanities course[2]	--	0
SOCIAL AND BEHAVIORAL SCIENCES			**3**
Course 1:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	SOC 1101*	3
NATURAL SCIENCES			**4**
Course 1:	Algebra-based Physics I (OSC014)	PHY 1141	4
GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:			**15**

Advising Notes:
Where it indicates "Any Ohio Transfer 36 approved," students should work closely with their advisors.
(*) indicates that other course options may be available. Please consult with your academic advisor.
[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] Sinclair College's Electrical Engineering Technology Program does not include an Ohio Transfer 36 Arts and Humanities course. This course will need to be taken during the bachelor degree program. Please plan on an additional three credit hours in addition to the remaining coursework listed in the bachelor's degree completion pathway.

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	PHY 1142	4
Course 2:	Public Speaking (OCM013), Oral Communication (TMOC), Technical Writing, or Second Writing (TME002) course	COMM 2211	3
ADDITIONAL/APPLIED GENERAL EDUCATION TOTAL:			**7**

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PRE-MAJOR/BEGINNING MAJOR		COURSE NUMBER	CREDIT HOURS
Course 1:	DC Circuits (OET001)	EET 1150	4
Course 2:	Digital Electronics (OET002)	EET 1131	5
Course 3:	AC Circuits (OET003)	EET 1155	3
Course 4:	Microprocessor/Microcontrollers (OET004)	EET 2261	4
Course 5:	Electronics (OET005)	EET 2201	5
Course 6:	Programmable Logic Controllers (OET022)	EET 2281	3
PRE-MAJOR/BEGINNING MAJOR TOTAL:			**24**

ADDITIONAL COURSEWORK	COURSE NUMBER	CREDIT HOURS
Technical Electives (Recommended: Engineering Graphics, Programming Languages, Machine Design, and/or a second Manufacturing Processes course)	EET 1116	4
	EET 2259	4
	EET 2278	4
	EGR 2261	4
	MET 2711	1
OTHER RECOMMENDATIONS TOTAL:		**17**

APPLIED ASSOCIATE DEGREE	Total Credit Hours
APPLIED ASSOCIATE DEGREE TOTAL:	63

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:
Academic Advising
academicadvising@sinclair.edu
(937) 512-3700

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EFFECTIVE BEGINNING ACADEMIC YEAR 2023-24

LAST REVISED: April 30, 2025

SAMPLE DEGREE MAP

FIRST YEAR

SEMESTER 1

COURSE NAME & NUMBER	CREDIT HOURS
EET 1116 Electronics, Schematics & Fabrication	4
EET 1150 DC Circuits	4
MAT 1580 Precalculus	5
ENG 1101 English Composition I	3
Total *SEMESTER 1* Credit Hours	16

SEMESTER 2

COURSE NAME & NUMBER	CREDIT HOURS
EET 1131 Digital Electronics	5
EET 1155 AC Circuits	3
EGR 2261 Engineering Prob Solving Using C & C++	4
PHY 1141 College Physics I	4
Total *SEMESTER 2* Credit Hours	16

SECOND YEAR

SEMESTER 3

COURSE NAME & NUMBER	CREDIT HOURS
EET 2201 Electronics Devices & Circuits	5
EET 2261 Microprocessors	4
EET 2281 Programmable Logic Controllers	3
COM 2211 Effective Public Speaking	3
Total *SEMESTER 3* Credit Hours	15

SEMESTER 4

COURSE NAME & NUMBER	CREDIT HOURS
EET 2259 Programming for Electronics Technology	4
EET 2278 Electronics Project Capstone	4
PHY 1142 College Physics II	4
MET 2711 Ethics for Engineering Tech Professionals	1
SOC 1101 Introduction to Sociology	3
Total *SEMESTER 4* Credit Hours	16