Transfer Credit Ohio

Ohio Guaranteed Transfer Pathways

UNIVERSITY OF CINCINNATI

Mechanical Engineering

Bachelor of Science

EFFECTIVE BEGINNING ACADEMIC YEAR 2026-27

LAST REVISED: August 17, 2026

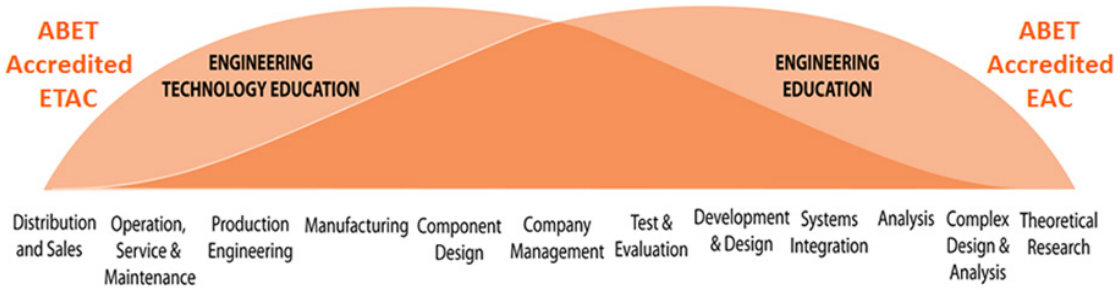
"Engineering and engineering technology are separate but closely related professional areas that differ in:

• 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."

This pathway includes a combination of Associate of Science (AS) and Associate of Applied Science (AAS) coursework. It should result in students earning an AS degree. 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.

Some bachelor-degree granting institutions require additional general education courses outside of the Ohio Transfer 36 and students may be required to take these courses in their junior or senior year. Additionally, students should be aware that certain Engineering programs require more than four semesters full-time to complete due to special requirements such as co-op for both transfer and non-transfer students.



Sources: Definition comes from the Accreditation Board for Engineering and Technology (ABET) (http://www.abet.org/accreditation/new-to-accreditation/engineering-vs-engineering-technology/), and the graphic comes from the American Society of Mechanical Engineers (ASME)

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The following table outlines how transfer credits will be applied to the Bachelor of Science in Mechanical Engineering degree at University of Cincinnati for students who completed an Associate of Science degree via the Ohio Guaranteed Aerospace/Mechanical Engineering Transfer Pathway. The OGTP designation guarantees the transfer and applicability of credits, but does not guarantee admission to a program. Some bachelor-degree granting programs may be competitive, and students should check with individual institutions for their program admission requirements.

COURSE EQUIVALENCIES FROM THE ASSOCIATE DEGREE	COURSE NUMBER	CREDIT HOURS
GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		
Any Ohio Transfer 36 approved First Writing (TME001)	ENGL 1001	3
Calculus I (TMM005)[1]	MATH 1061	4
Any Ohio Transfer 36 approved Arts and Humanities course[2]	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Arts and Humanities course[2]	Ohio Transfer 36 Elective*	3
Microeconomics (OSS004)	ECON 1001	3
Introduction to Psychology (OSS015)	PSYC 1001	3
Calculus-based Physics I (OSC016)	PHYS 2001 + PHYS 2001L	4 + 1
Calculus-based Physics II (OSC017)	PHYS 2002 + PHYS 2002L	4 +1
Calculus II (TMM006)	MATH 1062	4
Public Speaking (OCM013), Oral Communication (TMOC), or Second Writing (TME002) course[3]	ENGL 2089	3
General Chemistry I (OSC008)	CHEM 1040 + CHEM 1040L	4 +1
PRE-MAJOR/BEGINNING MAJOR		
Engineering Statics (OES002)	MECH 2025 (To be submitted)[4]	3
Engineering Dynamics (OES003)	MECH 2026 (To be submitted)[4]	3
Manufacturing Processes (OET010)	MET 2030	3
CAD (OET012)	MET 1072C	3
Engineering Materials (OET013)	MET 2032	3
OTHER RECOMMENDATIONS		
Calculus III (OMT018)[3] or Elementary Linear Algebra (OMT019)	MATH 2063 (To be submitted)[5]	4
Elementary Differential Equations (OMT020)	MATH 2073	3
Electives (as needed)[6]	Varies*	0-3
TOTAL HOURS FROM ASSOCIATE DEGREE:		**60-65**

(*) Indicates that coursework will be evaluated for applicable equivalency upon transfer at the university. If a Transfer Assurance Guide (TAG) course is taken, the approved course equivalency will be awarded.

[1] A prerequisite may be needed for a student to reach Calculus I (TMM005).

[2] University of Cincinnati recommends students take an American Civic Literacy if available at the sending institution or via consortium at UC if available.

[3] University of Cincinnati requires Second Writing (TME002); UC's ENGL 2089 (TME002) will fulfill the ENGL 4092 requirement for this program upon completion of the OGTP.

[4] "To be submitted" indicates that the course does not currently carry the statewide course equivalency guarantee. However, the institution is working towards this goal and will act in good faith to ensure the appropriate equivalency is given that counts toward the degree.

[5] University of Cincinnati's BSME program requires Calculus III (OMT018).

[6] University of Cincinnati's BSME program does not have additional capacity for elective credit. If any additional credits are taken in this category, they are transferable to UC but may not be applicable to the program.

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The following additional coursework will be required to complete the Bachelor of Science in Mechanical Engineering degree at University of Cincinnati after a student has completed an Associate of Science degree via the Ohio Guaranteed Aerospace/Mechanical Engineering Transfer Pathway. 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.

REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE[1]		COURSE NUMBER	CREDIT HOURS
Gen Education Requirements:	Civility & Democracy Elective (if not taken in associates degree)[1]	Varies	0-3
College Requirement:	Engineering Design Thinking 1	ENED 1001C	1
College Requirement:	Engineering Applications 1	ENED 1021	2
College Requirement:	Engineering Design Thinking 2	ENED 1002C	1
College Requirement:	Engineering Applications 2	ENED 1022	2
College Requirement:	Intro to Co-Op for CEAS	PD 1011	1
Major Requirement:	Thermodynamics	MECH 2010	4
Major Requirement:	Solid Mechanics	MECH 2030	3
Major Requirement:	Circuits and Sensing Lab	MECH 3070C	3
College Requirement:	COOP for CEAS (first sem)	COOP 2011	0
College Requirement:	COOP for CEAS (sec sem)	COOP 2012	0
College Requirement:	COOP for CEAS (third sem)	COOP 3011	0
Major Requirement:	Fluid Mechanics	MECH 3011	3
Major Requirement:	Machine Design	MECH 3022	4
Major Requirement:	Numerical Techniques in Mechanical Engineering	MECH 3042	3
Major Requirement:	System Dynamics and Vibrations	MECH 3080	3
Major Requirement:	Engineering Statistics	ENED 3066	3
Major Requirement:	Heat Transfer	MECH 4012	4
Major Requirement:	Mechatronics and Instrumentation Lab	MECH 4071C	3
Major Requirement:	Signals, Systems, and Controls	MECH 4081	3
Major Requirement:	MECH Elective (2 courses)	Varies	6
College Requirement:	Mid-Curriculuar Co-op Community for Eng	PD 2050	1
Major Requirement:	Experimental Methods in Mech Engineering	MECH 5072C	3
Major Requirement:	Senior Design 1 or Automotive Design I or HVAC design I	MECH 5051, MECH 5055C, or MECH 5197	3-4
Major Requirement:	Senior Design 2 or Automotive Design 2 or HVAC design 2	MECH 5052 MECH 5056C or MECH 5198	3-4
Major Requirement:	Guided Electives	Varies	3
REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE TOTAL:			**62-67**

Advising Notes:

[1] These courses have received the American Civic Literacy designation. This graduation requirement begins spring semester of the 2029-2030 academic year.

COMPLETE BACHELOR'S DEGREE	TOTAL CREDIT HOURS
BACHELOR'S DEGREE TOTAL:	**120**

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SPECIAL NOTES

For more information, please contact:
Transfer Center
transfer@uc.edu
513-556-1100
uc.edu/transferadvising

SAMPLE DEGREE MAP

THIRD YEAR

SEMESTER 5

COURSE NAME & NUMBER	CREDIT HOURS
ENED 1001C – Engineering Design Thinking 1	1
ENED 1021 – Engineering Applications 1	2
PD 1011 – Intro to COOP for CEAS	1
MECH 2010 – Thermodynamics	4
MECH 2030 – Solid Mechanics	3
MECH 3070C – Circuits & Sensing Lab	3
Total *SEMESTER 5* Credit Hours	14

SEMESTER 6

COURSE NAME & NUMBER	CREDIT HOURS
ENED 1002C – Engineering Design Thinking 2	1
ENED 1022 – Engineering Applications 2	2
MECH 3011 – Fluid Mechanics	3
MECH 3022 – Machine Design	4
MECH 3042 – Numerical Techniques in ME	3
MECH 3080 – System Dynamics/Vibrations	3
Total *SEMESTER 6* Credit Hours	16

SUMMER SEMESTER

COURSE NAME & NUMBER	CREDIT HOURS
COOP 2011 – COOP for CEAS I	0
Total *SUMMER SEMESTER* Credit Hours	0

FOURTH YEAR

SEMESTER 7

COURSE NAME & NUMBER	CREDIT HOURS
ENED 3066 – Engineering Statistics	3
MECH 4012 – Heat Transfer	4
MECH 4071C – Mechatronics/Instrumentation Lab	3
MECH 4081 – Signals, Systems, Controls	3
PD 2050 Mid-Curricular Coop Community	1
Total *SEMESTER 7* Credit Hours	14

SEMESTER 8

COURSE NAME & NUMBER	CREDIT HOURS
COOP 2012 – COOP for CEAS II	0
Total *SEMESTER 8* Credit Hours	0

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SAMPLE DEGREE MAP

SUMMER SEMESTER	
COURSE NAME & NUMBER	**CREDIT HOURS**
COOP 3011 – COOP for CEAS III	0
Total *SUMMER SEMESTER* Credit Hours	0

FIFTH YEAR

SEMESTER 7	
COURSE NAME & NUMBER	**CREDIT HOURS**
Senior/Automotive/HVAC Design I	3-4
MECH 5072C – Experimental Methods in ME	3
Guided Elective	3
MECH Elective	3
Total *SEMESTER 7* Credit Hours	12-13

SEMESTER 8	
COURSE NAME & NUMBER	**CREDIT HOURS**
Senior/Automotive/HVAC Design II	3-4
MECH Elective	3
Civility & Democracy Elective	0-3
Total *SEMESTER 8* Credit Hours	6-10