

Mechanical Engineering Technology - Design Major & Computer Aided Design Certificate (METD & METCAD)

Mechanical Engineering Technology—Design Major (METD)

Students in the Mechanical Engineering Technology - Design Major learn to use the latest technology to design and manufacture devices and systems for consumer products, machine tools, and the automotive and aerospace industries.

The curriculum prepares students to solve real-world problems from concept to completion using logical thinking as well as computer software, including computer-aided design (CAD) and computer-aided engineering (CAE).

The MET-Design Major is the traditional Mechanical Engineering Technology program. Graduates earn an Associate of Applied Science degree, and are well prepared to continue their education in a related engineering bachelor's degree program.

Mechanical Engineering Technology - Computer Aided Design Certificate (METCAD)

The Mechanical Engineer Technology - Computer Aided Design Certificate assists professionals who want to upgrade their skills, and also prepares new students for entry-level jobs in the field of computer aided design (CAD).

While completing the certificate, students gain proficiency with the most popular CAD software packages used in industry, including AutoCAD, Inventor, SolidWorks, and NX.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit our Admissions Page (<http://www.cincinnati.edu/academics/admission>)

Mechanical Engineering Technology—Design Major (METD)

Semester 1		Lec	Lab	Credits
MET 100	Introduction to Mechanical Engineering Technology (B)	1	2	2
MET 111	Manufacturing Processes 1 (B)	2	3	3
MET 131	MET Computer Aided Drafting 1 (B)	2	3	3
ENG 101	English Composition 1 (G)	3	0	3

FYE 1XX	First Year Experience Elective (B)	1	0	1
MAT XXX	Mathematics Elective 1 (G)	3	2	4
Semester 2				
MET 132	MET Computer Aided Drafting 2 (T)	2	3	3
MET 140	Engineering Materials (T)	2	2	3
MET 150	Statics and Strength of Materials for MET (T)	2	3	3
ENG 10X	English Composition Elective (G)	3	0	3
MAT XXX	Mathematics Elective 2 (B)	3	2	4
Semester 3				
MET 291	Full-Time Cooperative Education 1: Mechanical Engineering Technology (T)	1	40	2
Semester 4				
MET 240	Hydraulics and Pneumatics (T)	2	3	3
MET 250	Machine Design (T)	3	3	4
MET 285	Mechanical Engineering Technology Capstone Project 1 (T)	2	3	3
PHY 151	Physics 1: Algebra and Trigonometry-Based (G)	3	3	4
Semester 5				
MET 260	Applied Thermodynamics (T)	2	2	3
MET 270	Kinematics (T)	2	2	3
MET 290	Mechanical Engineering Technology Capstone Project 2 (T)	2	3	3
EET 101	Electronic Fundamentals 1 (T)	2	3	3
XXX XXX	Arts/ Humanities Elective (G)	3	0	3
Semester 6				
MET 292	Full-Time Cooperative Education 2: Mechanical Engineering Technology (T)	1	40	2
Total Credits:		47	122	65

Electives

First Year Experience Elective

FYE 100	College Survival Skills	1
FYE 105	College Success Strategies	2
FYE 110	Community College Experience	3

Mathematics Electives

8

Take one of the following series:

MAT 125 Algebra and Trigonometry
& MAT 126 and Functions and Calculus

Or

MAT 251 Calculus 1
& MAT 252 and Calculus 2

English Composition Elective

ENG 102	English Composition 2: Contemporary Issues	3
ENG 104	English Composition 2: Technical Communication	3
ENG 105	English Composition 2: Business Communication	3

Arts/Humanities Elective

CULT 105	Issues in Human Diversity	3
CULT 110	Social Issues in Technology	3
CULT 200	Introduction to Cultural Studies	3
PHI 110	Ethics	3

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Mechanical Engineering Technology - Computer Aided Design Certificate (METCAD)

Semester 1		Lec	Lab	Credits
MET 100	Introduction to Mechanical Engineering Technology	1	2	2
MET 131	MET Computer Aided Drafting 1	2	3	3
MAT 1XX	Mathematics Elective	2	2	3
Semester 2				
MET 111	Manufacturing Processes 1	2	3	3
MET 132	MET Computer Aided Drafting 2	2	3	3
MET 140	Engineering Materials	2	2	3
Total Credits:		11	15	17

Electives

Mathematics Elective

MAT 121	Technical Algebra and Geometry with Statistics	3
MAT 125	Algebra and Trigonometry	4

Faculty

Program Chair/Advisor

Professor Michael DeVore, PhD, PE
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Co-op Coordinator

Professor Sue Dolan, M.Ed.
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