

**ENGINEERING TECHNOLOGY -
Mechanical Engineering Major**

Datatel Program Code	EGRMC.AAS
COTC Major Number	003450
CIP Code	15.0805

A grade of C (2.00) or better is required for all courses listed as prerequisites for advanced courses (as indicated by the # next to Course Name).

The student who successfully completes the courses listed below on this Plan of Study will earn an Associate of Applied Science Degree in Engineering Technology, Mechanical Engineering Major.

- KEY:** * Indicates this course has a prerequisite; please see the Course Description Section on the COTC Web Page
 # Indicates this course requires a C grade or better for EGRMC.AAS students in order to progress and graduate from the program
 NT - Indicates this course fulfills a Non-Technical Course Requirement on this Plan of Study
 NT Elec - Indicates Elective Choice in the Non-Technical course requirement category
 T - Indicates this course fulfills a Technical Course Requirement on this Plan of Study
 T Elec - Indicates Elective Choice in the Technical course requirement category

TAG, C-TAG, OTM - Designation in this column indicates this course has been approved by the Ohio Board of Regents as a Transfer Assurance Guide (TAG), Career Technical Assurance Guide (C-TAG), or Ohio Transfer Module (OTM) course. Please follow this link on the COTC web site for more information: <http://www.cotc.edu/current-students/tags-transfer-module/Pages/index.aspx>

Course Name	Course Title	Course Credit Hours	Weekly Contact Hours	Tech, Non-Tech or Elective	Semester(s) Course Offered	SEM Course Approved As A TAG, C-TAG or OTM	Equivalent Quarter Course	Equivalent Quarter Cr Hrs
SEMESTER 1								
# ARCH-110	CAD Fundamentals	2.00	3.00	T	AU	-----	DDT-3706 & DDT-3707	2.00 & 2.00
ARCH-135	Technical Drawing	3.00	5.00	T	AU	-----	DDT-3728 & DDT-3758	3.00 & 3.00
ENGR-100	INTRODUCTION TO ENGINEERING TECHNOLOGIES	1.00	1.00	T	AU	-----	None	-----
ENGR-106	COMPUTER APPLICATIONS FOR ENGINEERING TECHNOLOGIES	2.00	3.00	T	AU	-----	None	-----
* # MATH-150	Pre-Calculus	5.00	5.00	NT	SM,AU,SP	OTM	MTH-1216	5.00
TOTAL CREDIT & CONTACT HOURS		13.00	17.00					
SEMESTER 2								
MECH-100	3D MODELING WITH AUTODESK INVENTOR	2.00	3.00	T	SP	-----	None	-----
MECH-110	Mechanical Systems	3.00	5.00	T	SP	-----	EMT-3253	3.00
MECH-162	Instrumentation & Measurement	3.00	5.00	T	SP	-----	EET-3262	4.00
* MECH-201	FLUID MECHANICS	2.00	3.00	T	SP	-----	None	-----
* # ENGL-112	Composition I	3.00	4.00	NT	SM,AU,SP	OTM	COM-1535	4.00
* # PHYS-100	General Physics	4.00	5.00	NT	SM,AU,SP	-----	PHY-1721	5.00
TOTAL CREDIT & CONTACT HOURS		17.00	25.00					
SEMESTER 3								
* CIVL-240	Statics & Strengths of Materials I	2.00	2.00	T	AU	-----	DDT-3257	3.00
* ENGL-208	TECHNICAL WRITING	3.00	4.00	NT	SM,AU,SP	TAG	COM-1525	3.00
* MECH-202	THERMODYNAMICS	2.00	3.00	T	AU	-----	None	-----
* MECH-230	Hydraulics & Pneumatics	3.00	5.00	T	AU	-----	EMT-3243	4.00
* PHIL-200	INTRODUCTION TO ETHICS	3.00	3.00	NT	SM,AU,SP	OTM,TAG	BHS-1340	3.00
SPCH-100	Fundamentals of Communication	3.00	3.00	NT	SM,AU,SP	TAG	COM-1534	4.00
TOTAL CREDIT & CONTACT HOURS		16.00	20.00					

The College Reserves the Right to Change Curricula Without Notice.

2014-2015 Academic Year

Plan of Study for the Associate of Applied Science Degree in

**ENGINEERING TECHNOLOGY -
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SEMESTER 4								
BIO-105	Environmental Science	4.00	5.00	NT	SM,AU,SP	OTM	BIO-1730	5.00
ENGR-205	ENGINEERING TECHNOLOGY LEADERSHIP & SUPERVISION	2.00	2.00	T	SP	-----	None	-----
* ENGR-279	ENGINEERING TECHNOLOGY CAPSTONE	2.00	6.00	T	SP	-----	ARCH-255	2.00
ENGR-296	ENGINEERING TECHNOLOGY CO-OP	3.00	21.00	T	SP	-----	ARCH-294/295	1.00 & 2.00
	Non-Technical Elective - Social & Behavioral Science	3.00	3.00	NT Elec	See Choices Below			
	Technical Elective	3.00	3.00	T Elec	See Choices Below			
TOTAL CREDIT & CONTACT HOURS		17.00	40.00					

Total Semester Credit Hours Required for Completion of Degree	63.00
<i>Non-Technical Required Semester Credit Hours</i>	28.00
<i>Technical Required Semester Credit Hours</i>	35.00

Non-Technical Elective - Social and Behavioral Sciences								
Total of 3.00 Semester Credit Hours Required to Complete this Degree								
ECON-105	Principles of Microeconomics	3.00	3.00	NT Elec	SM,AU,SP	TAG,OTM	BMT-2025	4.00
* PSY-100	Introduction to Psychology	3.00	3.00	NT Elec	SM,AU,SP	TAG,OTM	BHS-1376	5.00
SOC-100	Introduction to Sociology	3.00	3.00	NT Elec	SM,AU,SP	TAG,OTM	BHS-1382	3.00
SOC-110	Cultural Diversity	3.00	3.00	NT Elec	SM,AU,SP	TAG,OTM	BHS-1379	3.00

Technical Electives								
MECH-212	HVAC SYSTEMS	3.00	5.00	T Elec	SP	-----	EMT-3202	3.00
MECH-200	ALTERNATIVE AND RENEWABLE ENERGY SOURCES	3.00	5.00	T Elec	SP	-----	EMT-3201	3.00