

2013-2014 Academic Year

Plan of Study for the Associate of Applied Science Degree in

**ENGINEERING TECHNOLOGY -****Mechanical Engineering Major**

<b>Datatel Program Code</b>	<b>EGRMC.AAS</b>
<b>COTC Major Number</b>	<b>003450</b>
<b>CIP Code</b>	<b>15.0805</b>

A grade of C (2.00) or better is required for all Technical category courses listed as prerequisites for advanced courses.

*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

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
<b>SEMESTER 1</b>								
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	-----
IDS-100	Campus Connections	1.00	2.00	NT	SM,AU,SP	-----	None	-----
* MATH-150	Pre-Calculus	5.00	5.00	NT	SM,AU,SP	OTM	MTH-1216	5.00
<b>TOTAL CREDIT &amp; CONTACT HOURS</b>		<b>14.00</b>	<b>19.00</b>					
<b>SEMESTER 2</b>								
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
<b>TOTAL CREDIT &amp; CONTACT HOURS</b>		<b>17.00</b>	<b>25.00</b>					
<b>SEMESTER 3</b>								
* 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
<b>TOTAL CREDIT &amp; CONTACT HOURS</b>		<b>16.00</b>	<b>20.00</b>					

*The College Reserves the Right to Change Curricula Without Notice.*

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<b>COTC Major Number</b>	<b>003450</b>
<b>CIP Code</b>	<b>15.0805</b>

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
<b>SEMESTER 4</b>								
BIO-105	Environmental Science	4.00	5.00	NT	SM,AU,SP	OTM	BIO-1730	5.00
ENGR-205	ENGINEERING TECHNOLOGY LEADERSHIP AND 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			
<b>TOTAL CREDIT &amp; CONTACT HOURS</b>		<b>17.00</b>	<b>40.00</b>					

<b>Total Semester Credit Hours Required for Completion of Degree</b>	<b>64.00</b>
<i>Non-Technical Required Semester Credit Hours</i>	29.00
<i>Technical Required Semester Credit Hours</i>	35.00

<b>Non-Technical Elective - Social and Behavioral Sciences</b>								
<b>Total of 3.00 Semester Credit Hours Required to Complete this Degree</b>								
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

<b>Technical Electives</b>								
ENGR-105	Introduction to the Oil and Gas Industry	3.00	3.00	T Elec	AU	-----	None	-----
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