

Datatel Program Code	EMT.AAS
COTC Major Number	003020
CIP Code	15.0403

A grade of C (2.00) or better is required for all Electromechanical Engineering Technology 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 Electromechanical Engineering Technology.

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 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
CIT-105	Principles of Computer Programming	3.00	5.00	NT	AU	----	CMP-2596	4.00
* ENGL-110	Composition I	3.00	3.00	NT	SM,AU,SP	OTM	COM-1535	4.00
ENGRTECH-110	Mechanical Systems	3.00	5.00	T	AU	----	EMT-3253	3.00
IDS-100	Campus Connections	1.00	2.00	NT	SM,AU,SP	----	None	----
* MATH-140	College Algebra	3.00	3.00	NT	SM,AU,SP	OTM	MTH-1215	5.00
TOTAL CREDIT & CONTACT HOURS		15.00	21.00					
SEMESTER 2								
* ENGL-215	Writing About Literature	3.00	3.00	NT	SM,AU,SP	OTM	COM-1553	4.00
* ENGRTECH-113	Circuits I	3.00	5.00	T	SP	----	EET-3028	4.00
* ENGRTECH-162	Instrumentation & Measurement	3.00	5.00	T	SP	----	EET-3262	4.00
* MATH-110	Trigonometry	3.00	3.00	NT	SM,AU,SP	OTM	MTH-1226	5.00
* PHYS-110	Physics I	4.00	5.00	NT	SM,AU,SP	TAG	PHY-1726 & PHY-1727	5.00 & 5.00
SPCH-205	Public Speaking	3.00	3.00	NT	SM,AU,SP	TAG	COM-1504	3.00
TOTAL CREDIT & CONTACT HOURS		19.00	24.00					
SEMESTER 3								
* ENGRTECH-213	Circuits II	3.00	5.00	T	AU	----	EET-3029	4.00
* ENGRTECH-230	Hydraulics & Pneumatics	3.00	5.00	T	AU	----	EMT-3243	4.00
* ENGRTECH-241	Digital Electronics I	3.00	5.00	T	AU	----	EET-3154	4.00
* PHYS-111	Physics II	4.00	5.00	NT	SM,AU,SP	TAG	PhY-1727 & PHY-1728	5.00 & 5.00
	Non-Technical Elective - Arts & Humanities	3.00	3.00	NT ELEC	See Choices Below			
TOTAL CREDIT & CONTACT HOURS		16.00	23.00					
SEMESTER 4								
* ENGRTECH-250	Programmable Logic Controllers	3.00	5.00	T	SP	----	EMT-3252	4.00
* ENGRTECH-260	Electric Motors	3.00	5.00	T	SP	----	EMT-3244	4.00
* ENGRTECH-278	Electromechanical Design Capstone	3.00	9.00	T	SP	----	EMT-3261	5.00
	Non-Technical Elective - Social & Behavioral Science	3.00	3.00	NT ELEC	See Choices Below			
	Technical Elective	3.00	5.00	T ELEC	See Choices Below			
TOTAL CREDIT & CONTACT HOURS		15.00	27.00					

The College Reserves the Right to Change Curricula Without Notice.

2012-2013 Academic Year
 Plan of Study for the Associate of Applied Science Degree in
 Electromechanical Engineering Technology

Datatel Program Code	EMT.AAS
COTC Major Number	003020
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Total Semester Credit Hours Required for Completion of Degree	65.00
<i>Non-Technical Required Semester Credit Hours</i>	33.00
<i>Technical Required Semester Credit Hours</i>	32.00

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
Non-Technical Electives - Arts and Humanities								
Total of 3.00 Semester Credit Hours Required to Complete this Degree								
* PHIL-100	Critical Thinking	3.00	3.00	NT Elec	SM,AU,SP	OTM	BHS-1006	3.00
* PHIL-200	Introduction to Ethics	3.00	3.00	NT Elec	SM,AU,SP	TAG, OTM	BHS-1340	3.00
Non-Technical Elective - Social and Behavioral Sciences								
Total of 3.00 Semester Credit Hours Required to Complete this Degree								
* PSYCH-100	Introduction to Psychology	3.00	3.00	NT Elec	SM,AU,SP	TAG, OTM	BHS-1376	5.00
* PSYCH-220	Social Psychology	3.00	3.00	NT Elec	SM,AU,SP	TAG	BHS-1370	5.00
* PSYCH-230	Organizational Psychology	3.00	3.00	NT Elec	SM,AU,SP	-----	BHS-1385	3.00
* 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 Elective								
Total of 3.00 Semester Credit Hours Required to Complete this Degree								
ACCT-111	Financial Accounting	3.00	4.00	T ELEC	SM,AU,SP	TAG	ACC-2113 & ACC-2114	5.00 & 5.00
* CIT-130	Visual Basic I	3.00	5.00	T ELEC	AU	-----	CMP-2576	4.00
* CIT-140	Java Programming	3.00	5.00	T ELEC	SP	-----	CMP-2564	4.00
* CIT-205	Advanced C++	3.00	5.00	T ELEC	SP	-----	CMP-2587	4.00
* ENGR TCH-105	Introtroduction to the Oil & Gas Industry	3.00	4.00	T Elec	SP	-----	None	-----
* ENGR TCH-251	Digital Electronics II	3.00	5.00	T ELEC	SP	-----	EET-3164 & EET-3167	4.00 & 4.00
* ENGR TCH-197-198	Special Topics - Engineering Courses	1.00-2.00	-----	T Elec	SM,AU,SP	-----	-----	-----
* ENGR TCH-297-298	Special Topics - Engineering Courses	1.00-2.00	-----	T Elec	SM,AU,SP	-----	-----	-----