

Datatel Program Code	MAN.AAS
COTC Major Number	003060
CIP Code	15.0613

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 Manufacturing Engineering Technology.

**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 MAN.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
<b>SEMESTER 1</b>								
* # ENGL-112	Composition I	3.00	4.00	NT	SM,AU,SP	OTM	COM-1535	4.00
MANF-100	Principles of Machining	2.00	3.00	T	AU	----	AMT-3437	3.00
* MANF-105	Metrology	2.00	2.00	T	AU	----	AMT-3434 & AMT-3435	2.00 & 2.00
* 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>12.00</b>	<b>14.00</b>					
<b>SEMESTER 2</b>								
* ENGL-208	TECHNICAL WRITING	3.00	4.00	NT	SM,AU,SP	TAG	COM-1525	3.00
ETA-107	OSHA 30	2.00	2.00	NT	SP	----	ETA-3071	3.00
* MANF-106	Automation in Manufacturing	3.00	5.00	T	SP	----	None	----
* MANF-122	Machining Turning and Milling	4.00	8.00	T	SP	----	AMT-3438 & AMT-3439	3.00 & 3.00
* PHYS-100	General Physics	4.00	4.00	NT	SM,AU,SP	----	PHY-1721	5.00
<b>TOTAL CREDIT &amp; CONTACT HOURS</b>		<b>16.00</b>	<b>23.00</b>					
<b>SEMESTER 3 (SUMMER)</b>								
* 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
	Non-Technical Elective - Social & Behavioral Science	3.00	3.00	NT Elec	See Choices Below			
<b>TOTAL CREDIT &amp; CONTACT HOURS</b>		<b>9.00</b>	<b>9.00</b>					
<b>SEMESTER 4</b>								
BIO-105	Environmental Science	4.00	5.00	NT	SM,AU,SP	OTM	BIO-1730	5.00
MANF-201	Materials in Manufacturing	2.00	3.00	T	AU	----	AMT-3447	3.00
MANF-202	CAD for Machining	3.00	7.00	T	AU	----	AMT-3434 & AMT-3436	2.00 & 4.00
MANF-270	LEAN MANUFACTURING	3.00	3.00	T	AU	----	EMT-3210	4.00
<b>TOTAL CREDIT &amp; CONTACT HOURS</b>		<b>12.00</b>	<b>18.00</b>					

The College Reserves the Right to Change Curricula Without Notice.

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<b>SEMESTER 5</b>								
ENGR-205	ENGINEERING TECHNOLOGY LEADERSHIP & SUPERVISION	2.00	2.00	T	SP	-----	None	-----
* MANF-203	Statistical Process Control	2.00	2.00	T	SP	-----	AMT-3415	3.00
* MANF-204	CNC Graphic Programming	3.00	5.00	T	SP	-----	AMT-3448	4.00
* MANF-222	CNC-Turning and Milling	4.00	8.00	T	SP	-----	AMT-3475 & AMT-3476	3.00 & 3.00
<b>TOTAL CREDIT &amp; CONTACT HOURS</b>		<b>11.00</b>	<b>17.00</b>					
<b>SEMESTER 6</b>								
ENGR-296	ENGINEERING TECHNOLOGY CO-OP	3.00	21.00	T	SP,SM	-----	AMT-294/295/296	1.00 & 2.00
<b>TOTAL CREDIT &amp; CONTACT HOURS</b>		<b>3.00</b>	<b>21.00</b>					

<b>Total Semester Credit Hours Required for Completion of Degree</b>	<b>63.00</b>
<i>Non-Technical Required Semester Credit Hours</i>	30.00
<i>Technical Required Semester Credit Hours</i>	33.00

<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>								
MECH-200	ALTERNATIVE & RENEWABLE ENERGY SOURCES	3.00	5.00	T Elec	SP	-----	EMT-3201	3.00