



INDUSTRIAL ENGINEERING TECHNOLOGY
MACHINE TECHNOLOGY
Associate in Applied Science Degree

Program Locations: Atmore and Thomasville Campuses

Length: Four Semesters

The Machine Technology program is designed to help students exit the program with hands-on skill and knowledge recognized by industry partners as the key competencies to succeed in the field of machinist.

This is a career program designed for students to go directly into the labor market upon completion. Although some of the courses in this program will transfer to four-year institutions, this program is not designed to be a transfer program of study; therefore, it is not subject to the terms and conditions of STARS.

AREA I: Written Composition	3 Total Hours
ENG 101 – English Composition I	3
AREA II: Humanities and Fine Arts	6 Total Hours
Choose one of the following: SPH 106 – Fundamentals of Oral Communication SPH 107 – Fundamentals of Public Speaking	3
Humanities and Fine Arts Elective: Choose one of the following ART 100 – Art Appreciation ART 203 – Art History I ART 204 – Art History II HUM 101 – Introduction to Humanities I HUM 102 – Introduction to Humanities II MUS 101 – Music Appreciation PHL 106 – Introduction to Philosophy PHL 206 – Ethics and Society REL 100 – History of World Religions REL 151 – Survey of the Old Testament REL 152 – Survey of the New Testament THR 120 – Theater Appreciation THR 126 – Introduction to Theater	3
AREA III: Natural Sciences and Mathematics	9 – 10 Total Hours
CIS 146 – Microcomputer Applications	3
Choose one of the following: MTH 100 – Intermediate College Algebra MTH 116 – Mathematical Applications	3
Computer Science, Math or Science Elective: Choose one of the following BIO 101 – Introduction to Biology I BIO 102 – Introduction to Biology II BIO 103 – Principles of Biology I CHM 104 – Introduction to Inorganic Chemistry CHM 111 – College Chemistry I CHM 112 – College Chemistry II CIS 130 – Intro to Information Systems CIS 147 – Advanced Micro Applications MTH 100 – Intermediate College Algebra MTH 110 – Finite Mathematics MTH 112 – Precalculus Algebra MTH 113 – Precalculus Trigonometry MTH 115 – Precalculus Algebra and Trigonometry MTH 116 – Mathematical Applications PHS 111 – Physical Science I PHS 112 – Physical Science II PHY 120 – Introduction to Physics PHY 201 – General Physics I with Trigonometry PHY 202 – General Physics II with Trigonometry	3 – 4

AREA IV: History, Social, and Behavioral Sciences		3 Total Hours	
Choose one of the following:		3	
ECO 231 – Principles of Macroeconomics	HIS 202 – United States History II		
ECO 232 – Principles of Microeconomics	POL 200 – Introduction to Political Science		
GEO 100 – World Regional Geography	POL 211 – American National Government		
HIS 101 – Western Civilization I	PSY 200 – General Psychology		
HIS 102 – Western Civilization II	PSY 210 – Human Growth and Development		
HIS 121 – World History I	SOC 200 – Introduction to Sociology		
HIS 122 – World History II	SOC 210 – Social Problems		
HIS 201 – United States History I			
AREA V: Pre-Professional, Major, and Elective Courses			46 Total Hours
IET 114 – Basic Electricity		3	
IET 131 – Fluid Power Systems		3	
INT 106 – Elements of Industrial Mechanics		3	
INT 117 – Principles of Industrial Mechanics		3	
MTT 108 – Machine Handbook Functions I		3	
MTT 121 – Basic Print Reading for Machinist		3	
MTT 134 – Lathe Operations		3	
MTT 135 – Lathe Operations Lab		3	
MTT 137 – Milling I		3	
MTT 139 – Basic Computer Numerical Control		3	
MTT 140 – Basic Computer Numerical Control Turning Programming I		3	
MTT 147 – Introduction to Machine Shop I		3	
MTT 148 – Introduction to Machine Shop I Lab		3	
WKO 110 – NCCER Core		3	
ORI 101 – Orientation to College or WKO 107 – Workplace Skills Preparation		1	
ARC, ELT, IET, ILT, INT or WKO Electives: Choose one of the following.		3	
ACR 111 – Principles of Refrigeration	ILT 110 – Advanced Industrial Process Control Tech.		
ACR 112 – HVACR Service Procedure	ILT 114 – Instrumentation Operation and Calibration		
ACR 119 – Fundamentals of Gas Heating Systems	ILT 115 – Advanced Industrial Controls		
ACR 121 –Principles of Electricity for HVACR	ILT 166 – Motors and Transformers I		
ACR 126 – Commercial Heating Systems	ILT 180 – Special Topics		
ACR 148 - Heat Pump Systems I	ILT 214 – Control and Troubleshooting Flow,, Level, Temperature, Pressure and Level Processes		
ACR 149 –Heat Pump Systems II	ILT 218 – Industrial Robotics Concepts		
ACR 205 – System Sizing and Air Distribution	INT 132 – Preventative & Predictive Maintenance		
ELT 114 – Residential Wiring Methods	INT 158 – Industrial Wiring I		
ELT 115 – Residential Wiring Methods II	INT 161 – Blueprint Reading for Industrial Technicians		
ELT 131 – Wiring I Commercial and Industrial	INT 215 – Troubleshooting Techniques		
ELT 212 – Motor Controls II	INT 222 - Special Topics		
ELT 231 – Introduction to Programmable Controllers	INT 291 – Cooperative Education		
ELT 241 – National Electric Code	WKO 106 – Workplace Skills		
Total Hours			67 – 68 SH