

Electrical and Automated Technology

EEM 118	AC/DC Circuits II	4
EEM 151	Motor Controls I	4
EEM 217	AC/DC Machines with Electrical Codes	4
Total 12		

Machine Tool

MTT 111	Machine Tool Theory and Practice I	5
MTT 112	Machine Tool Theory and Practice II	5
MTT 143	Precision Measurements	2
Total 12		

Additional Requirements

Select one group of courses from Additional Requirements (match to Secondary Path group), minimum of five credit hours:

Welding

WLD 110	Welding Safety and Health	1
WLD 141	Weld Quality	2
WLD 201	Welding Metallurgy	2
Total 5		

Electrical and Automated Technology

EEM 107	Industrial Computer Techniques	2
EEM 251	Programmable Controllers	3
Total 5		

Machine Tool Technology

MTT 145	Machining of Metals	3
MTT 240	Specifications	3
Total 6		

IMT-prefix courses are available based on demand. See your program advisor.

Industrial Maintenance Mechanics Career Path

Credit Requirements: 64-65 Semester Credit Hours

Evening

Primary Path Only

See advisor for Secondary Path sequence and other required courses (17-18 hours).

Recommended Sequence of Courses

First Semester – Fall

CPT 101	Introduction to Computers	3
or		
EGR 110	Introduction to Computer Environment	3
IMT 163	Problem Solving for Mechanical Applications	3
REQ HUM	Select one course from Humanities listing on page B-3	3
Total 9		

Second Semester – Spring

IMT 131	Hydraulics and Pneumatics	4
IMT 151	Piping Systems	3
SPC 205	Public Speaking	3
or		
SPC 209	Interpersonal Communication	3
Total 10		

Third Semester – Summer

IMT 210	Basic Industrial Skills I	3
IMT 211	Basic Industrial Skills II	3
REQ MAT	Select one math course from Mathematics/Natural Sciences listing on page B-4	3
Total 9		

Fourth Semester – Fall

ENG 101	English Composition I	3
IMT 105	Mechanical Sketching	2
IMT 121	Drive Systems	2
IMT 124	Pumps	2
Total 9		

Fifth Semester – Spring

EEM 117	AC/DC Circuits I	4
IMT 160	Preventive Maintenance	3
REQ SSC	Select one course from Behavioral/Social Sciences listing on page B-4	3
Total 10		

IMT-prefix courses are available based on demand. See your program advisor.

Machine Tool Technology Course Display

Credit Requirements: 63 Semester Credit Hours

Core Curriculum Requirements

CPT 101	Introduction to Computers	3
or		
EGR 110	Introduction to Computer Environment	3
REQ HUM	Select one course from Humanities listing on page B-3	3
REQ MAT	Select one math course from Mathematics/Natural Sciences listing on page B-4	3
REQ SSC	Select one course from Behavioral/Social Sciences listing on page B-4	3
ENG 101	English Composition I	3
SPC 205	Public Speaking	3
or		
SPC 209	Interpersonal Communication	3

Industrial Technology

Primary Path

EGT 106	Print Reading and Sketching	3
IET 223	Industrial Safety	3
MTT 111	Machine Tool Theory and Practice I	5
MTT 112	Machine Tool Theory and Practice II	5
MTT 145	Machining of Metals	3
MTT 240	Specifications	3
MTT 250	Principles of CNC	3
MTT 253	CNC Programming and Operations	3

Secondary Path

EGT 109	Introduction to Engineering Design Graphics	3
EGT 151	Introduction to CAD	3
EGT 152	Fundamentals of CAD	3
EGT 251	Principles of CAD	3

Additional Requirements

MGT 101	Principles of Management	3
or		
QAT 101	Introduction to Quality Assurance	3
MTT 143	Precision Measurement	2

Fourth Semester – Fall

REQ HUM	Select one course from Humanities listing on page B-3	3
ENG 101	English Composition I	3
EGT 152	Fundamentals of CAD	3
MGT 101	Principles of Management	3
or		
QAT 101	Introduction to Quality Assurance	3
		Total 12

Fifth Semester – Spring

EGT 251	Principles of CAD	3
REQ SSC	Select one course from Behavioral/Social Sciences listing on page B-4	3
REQ MAT	Select one math course from Mathematics/Natural Sciences listing on page B-4	3
SPC 205	Public Speaking	3
or		
SPC 209	Interpersonal Communication	3
		Total 12

Machine Tool Technology Career Path

Credit Requirements: 63 Semester Credit Hours

Recommended Sequence of Courses

First Semester – Fall (Evening)

EGT 106	Print Reading and Sketching	3
MTT 111	Machine Tool Theory and Practice I	5
IET 223	Industrial Safety	3
CPT 101	Introduction to Computers	3
or		
EGR 110	Introduction to Computer Environment	3
		Total 14

Second Semester – Spring

MTT 112	Machine Tool Theory and Practice II	5
MTT 143	Precision Measurements	2
MTT 145	Machining of Metals	3
EGT 109	Introduction to Engineering Design Graphics	3
		Total 13

Third Semester – Summer

MTT 240	Specifications	3
MTT 250	Principles of CNC	3
MTT 253	CNC Programming and Operations	3
EGT 151	Introduction to CAD	3
		Total 12

Welding Course Display

Credit Requirements: 70-71 Semester Credit Hours

Core Curriculum Requirements

CPT 101	Introduction to Computers	3
or		
EGR 110	Introduction to Computer Environment	3
ENG 101	English Composition I	3
REQ HUM	Select one course from Humanities listing on page B-3	3
REQ MAT	Select one math course from Mathematics/Natural Sciences listing on page B-4	3
ECO 210	Macroeconomics	3
or		
PSY 201	General Psychology	3
SPC 205	Public Speaking	3
or		
SPC 209	Interpersonal Communication	3

Primary Path: Select any two concentration groups

Concentration Group 1: Shielded Metal Arc

WLD 101	Cutting Processes	1
WLD 111	Arc Welding I	4
WLD 113	Arc Welding II	4
WLD 114	Advanced Arc Welding	1
WLD 145	Field Welding	2
WLD 170	Qualification Welding	4