

Machine Tool Technology Certificates

Exploratory Machining I Certificate

Courses Required:

MTT	110	Fundamentals of Machine Tools A	and	3
MTT	112	Fundamentals of Machine Tools B	or	4
MTT	114	Fundamentals of Machine Tools		(7)
MTT	130	Manual Programming	and	(3)
MTT	132	CAD/CAM/CNC	or	(3)
MTT	134	Manual Programming/CAD/CAM/CNC	or	(6)
MTT	138	Intro to Programming & CNC Machines	or	(6)
IEX	295	Special Problems III		(3)
Total Credits:				3-7

Exploratory Machining II Certificate

Course Required:

IEX	297	Special Problems IV		4
Total Credits:				4

Machine Tool Operator I Certificate

Courses Required:

MTT	110	Fundamentals of Machine Tools A	and	3
MTT	112	Fundamentals of Machine Tools B	or	4
MTT	114	Fundamentals of Machine Tools		(7)
MTT	130	Manual Programming	or	3
MTT	134	Manual Programming CAD/CAM/CNC	or	(6)
MTT	138	Intro to Programming & CNC Machines		(6)
BRX	110	Basic Blueprint Reading for Machinist		2
MT	115	Technical Mathematics		3
Total Credits:				15 – 18

Machine Tool Operator II Certificate

Courses Required:

MTT	110	Fundamentals of Machine Tools A	and	3
MTT	112	Fundamentals of Machine Tools B	or	4
MTT	114	Fundamentals of Machine Tools		(7)
MTT	118	Metrology/Control Charts		3
MTT	120	Applied Machining I	and	3
MTT	122	Applied Machining II	or	4
MTT	124	Applied Machining		(7)
MTT	130	Manual Programming	or	3

MTT	134	Manual Programming CAD/CAM/CNC or	(6)
MTT	138	Intro to Programming & CNC Machines	(6)
BRX	110	Basic Blueprint Reading for Machinist	2
MT	115	Technical Mathematics or	3
MT	125	Technical Algebra and Trigonometry or Higher	(3)
		Computer Literacy*	0 – 3
		Total Credits:	25- 31

* Computer literacy must be demonstrated by competency exam or by completing a computer literacy course.

CNC Operator Certificate

Courses Required:

MTT	110	Fundamentals of Machine Tools A and	3
MTT	112	Fundamentals of Machine Tools B or	4
MTT	114	Fundamentals of Machine Tools	(7)
MTT	118	Metrology/Control Charts	3
MTT	130	Manual Programming and	3
MTT	132	CAD/CAM/CNC or	3
MTT	134	Manual Programming CAD/CAM/CNC or	(6)
MTT	138	Intro to Programming & CNC Machines	(6)
MTT	2301	Intro to Conversational Programming and	3
MTT	2302	Conversational Editing and Subroutines or	3
MTT	230	Conversational Programming or	(6)
MTT	234	CNC Machines and Coding Practices	(6)
BRX	110	Basic Blueprint Reading for Machinist	2
MT	115	Technical Mathematics or	3
MT	125	Technical Algebra and Trigonometry or Higher	(3)
		Computer Literacy*	0- 3
		Total Credits:	27 – 30

* Computer literacy must be demonstrated by competency exam or by completing a computer literacy course.