

Machine Tool Technology

Student Name _____

Enrollment Date _____ Academic Year _____

Emplid _____ Scores: Math _____

Reading _____

Writing _____

Progression in the Machine Tool Technology program is contingent upon achievement of a grade of C or greater in each technical course and maintenance of a 2.0 cumulative grade point average or above (on a 4.0 scale).

CERTIFICATE – EXPLORATORY MACHINING I: 12 Total Credit Hours

Required Scores: None	Cr Hr	Grade
MTT 110 Fundamentals of Machine Tools – A <i>No prerequisite</i>	3	
AND		
MTT 112 Fundamentals of Machine Tools - B <i>Prereq: (MTT 110 with a grade of C or greater) or Consent of Instructor</i>	4	
AND		
Electives (Technical or General Education) (or (MTT 114 and Electives-5) or (MTT 130 and MTT 132 and Electives-6) or (MTT 134 and Electives-6) or (MTT 138) or (Electives-6))	5	

CERTIFICATE – MACHINE TOOL OPERATOR I: 15 Total Credit Hours

Required Scores: Algebra – 25 / Reading – NA / Writing – NA	Cr Hr	Grade
BRX 110 Basic Blueprint Reading for Machinist (or BRX 112) <i>No prerequisite</i>	2	
MAT 116 Technical Mathematics (sub MT 110 or higher math) <i>Prereq: MAT 65 or equivalent as determined by KCTCS placement examination</i>	3	
MTT 110 Fundamentals of Machine Tools – A <i>No prerequisite</i>	3	
AND		
MTT 112 Fundamentals of Machine Tools - B <i>Prereq: (MTT 110 with a grade of C or greater) or Consent of Instructor (or MTT 114)</i>	4	
MTT 130 Manual Programming (or MTT 134 or MTT 138) <i>No prerequisite</i>	3	

DIPLOMA – MACHINIST: 42-45 Total Credit Hours

Required Scores: Algebra–25/Reading–85/Writing–49 or 74	Cr Hr	Grade
General Education:		
Area 1 = Writing / Accessing Information, Oral Communication, Heritage / Humanities / Foreign Languages (Rec. ENG 101)	3	
Area 2 = MAT 116 Technical Mathematics (or MAT 126 or higher math) (sub MT 110) <i>Prereq: MAT 65 or equivalent as determined by KCTCS placement examination</i>	3	
Area 3 = Computer Literacy course or competency demonstrated by exam (Rec. CIS 100)	0-3	
Technical:		
GEN 100 Introduction to College <i>No prerequisite</i>	1	
BRX 110 Basic Blueprint Reading for Machinist <i>No prerequisite</i>	2	
AND		
BRX 210 Mechanical Blueprint Reading <i>Prereq: BRX 110 with a grade of C or greater or Consent of Instructor (or BRX 112)</i>	2	
MTT 110 Fundamentals of Machine Tools – A <i>No prerequisite</i>	3	
AND		
MTT 112 Fundamentals of Machine Tools - B <i>Prereq: (MTT 110 with a grade of C or greater) or Consent of Instructor (or MTT 114)</i>	4	
MTT 118 Metrology/Control Charts <i>No prerequisite</i>	2	
MTT 124 Applied Machining (or MTT 120 and MTT 122) <i>Prereq: ((MTT 110 and MTT 112) or MTT 114) with a grade of C or greater) or Consent of Instructor</i>	6	
MTT 130 Manual Programming (or MTT 134 or MTT 138) <i>No prerequisite</i>	3	
MTT 214 Industrial Machining (or MTT 210 and MTT 212) <i>Prereq: ((MTT 122 or MTT 124) with a grade of C or greater) or Consent of Instructor</i>	6	
MTT 224 Advanced Industrial Machining (or MTT 220 and MTT 222) <i>Prereq: ((MTT 134 and MTT 212) or MTT 214) with a grade of C or greater) or Consent of Instructor</i>	6	
Elective (Co-op or Practicum)	1	

CERTIFICATE – MACHINE TOOL OPERATOR II: 24-27 Total Credit Hours

Required Scores: Algebra – 25 / Reading – 80 / Writing – 49	Cr Hr	Grade
GEN 100 Introduction to College (<i>No prerequisite</i>)	1	
BRX 110 Basic Blueprint Reading for Machinist (or BRX 112) <i>No prerequisite</i>	2	
Computer Literacy course or competency demonstrated by exam (Rec. CIS 100)	0-3	
MAT 116 Technical Mathematics (or MAT 126 or higher math) (sub MAT 110) <i>Prereq: MAT 65 or equivalent as determined by KCTCS placement examination</i>	3	
MTT 110 Fundamentals of Machine Tools – A <i>No prerequisite</i>	3	
AND		
MTT 112 Fundamentals of Machine Tools - B <i>Prereq: (MTT 110 with a grade of C or greater) or Consent of Instructor (or MTT 114)</i>	4	
MTT 118 Metrology/Control Charts (<i>No prerequisite</i>)	2	
MTT 124 Applied Machining (or MTT 120 and MTT 122) <i>Prereq: ((MTT 110 and MTT 112) or MTT 114) with a grade of C or greater) or Consent of Instructor</i>	6	
MTT 130 Manual Programming (or MTT 134 or MTT 138) <i>No prerequisite</i>	3	

DIPLOMA - CNC MACHINIST: 57-60 Total Credit Hours

Required Scores: Algebra–25/Reading–85/Writing–49 or 74	Cr Hr	Grade
General Education:		
Area 1 = Writing / Accessing Information, Oral Communication, Heritage / Humanities / Foreign Languages (Rec. ENG 101)	3	
Area 2 = MAT 116 Technical Mathematics (or MAT 126 or higher math) (sub MT 110) <i>Prereq: MAT 65 or equivalent as determined by KCTCS placement examination</i>	3	
Area 3 = Computer Literacy course or competency demonstrated by exam (Rec. CIS 100)	0-3	
Technical:		
GEN 100 Introduction to College (<i>No prerequisite</i>)	1	
BRX 110 Basic Blueprint Reading for Machinist <i>No prerequisite</i>	2	
AND		
BRX 210 Mechanical Blueprint Reading <i>Prereq: BRX 110 with a grade of C or greater or Consent of Instructor (or BRX 112)</i>	2	
MTT 110 Fundamentals of Machine Tools – A <i>No prerequisite</i>	3	
AND		
MTT 112 Fundamentals of Machine Tools - B <i>Prereq: (MTT 110 with a grade of C or greater) or Consent of Instructor (or MTT 114)</i>	4	
MTT 118 Metrology/Control Charts (<i>No prerequisite</i>)	2	
MTT 124 Applied Machining (or MTT 120 and MTT 122) <i>Prereq: ((MTT 110 and MTT 112) or MTT 114) with a grade of C or greater) or Consent of Instructor</i>	6	
MTT 130 Manual Programming (<i>No prerequisite</i>) AND	3	
MTT 132 CAD/CAM/CNC (<i>No prerequisite</i>) (or MTT 134 or MTT 138)	3	
MTT 214 Industrial Machining (or MTT 210 and MTT 212) <i>Prereq: ((MTT 122 or MTT 124) with a grade of C or greater) or Consent of Instructor</i>	6	
MTT 224 Advanced Industrial Machining (or MTT 220 and MTT 222) <i>Prereq: ((MTT 134 and MTT 212) or MTT 214) with a grade of C or greater) or Consent of Instructor</i>	6	
MTT 230 Conversational Programming (or (MTT 2301 and MTT 2302) or MTT 234) <i>Prereq: Consent of Instructor</i>	6	
MTT 240 Introduction to 3-D Programming (or (MTT 2401 and MTT 2402) or MTT 244) <i>Prereq: ((MTT 130 and MTT 132) or MTT 134) with a grade of C or greater) or Consent of Instructor</i>	6	
Elective (Co-op or Practicum)	1	

GENERAL OCCUPATIONAL / TECHNICAL STUDIES AAS DEGREE: (CNC MACHINIST DIPLOMA (57-60 Hours) PLUS 9 additional credit hours in General Education): 66-69 Total Credit Hours

Required Scores: Algebra – 25 / Reading – 85 / Writing – 74	Cr Hr	Grade	Course
Heritage / Humanities / Foreign Languages <i>Prereq: See Compass / ACT score requirement</i>	3		
Science <i>Prereq: See Compass / ACT score requirement</i>	3		
Social Interaction <i>Prereq: See Compass / ACT score requirement</i>	3		

Developmental Math	Cr Hr
MAT 55 – Pre-Algebra <i>Compass score 24-41 in Pre-Algebra</i>	3
MAT 65 – Basic Algebra <i>Compass score 16-30 in Algebra</i>	3
MAT 120 – Intermediate Algebra <i>Compass score 31-35 in Algebra</i>	3
MAT 100 – College Algebra Workshop <i>Compass score 36-49 in Algebra / ACT 19-21 - enroll concurrent in College Algebra (MAT 150)</i>	2
Developmental Writing	
ENC 90 – Foundations of College Writing I <i>Compass score 26-38</i>	3
ENC 91 – Foundations of College Writing II <i>Compass score 39-73</i>	3
Developmental Reading	
RDG 20 – Improved College Reading <i>Compass score 49-69</i>	3
RDG 30 – Reading for the College Classroom <i>Compass score 70-82</i>	3
RDG 41 – Reading Laboratory <i>Compass score 83-84</i>	1

Developmental Courses: Once students complete and pass a developmental course with a grade of 'C' or higher, they have the option of retesting or moving into the next level of developmental. Once students have completed and passed ALL levels of developmental, they can be placed into General Education courses, including College Algebra, and are not required to retest.

I have reviewed this advising sheet with my advisor and understand course requirements and preferred sequence of courses necessary to complete a credential. Also, I do understand that there may be course changes with future curriculum revisions that may affect a change in course requirements listed on this sheet.

Student: _____ Advisor: _____ Date: _____	Student: _____ Advisor: _____ Date: _____	Student: _____ Advisor: _____ Date: _____
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Student: _____ Advisor: _____ Date: _____	Student: _____ Advisor: _____ Date: _____	Student: _____ Advisor: _____ Date: _____
Student: _____ Advisor: _____ Date: _____	Student: _____ Advisor: _____ Date: _____	Student: _____ Advisor: _____ Date: _____
Student: _____ Advisor: _____ Date: _____	Student: _____ Advisor: _____ Date: _____	Student: _____ Advisor: _____ Date: _____