Computerized Manufacturing & Machining

Student Name _____

Enrollment Date _____ **Academic Year** _____

Emplid _____ **Scores:** **Math** _____
Reading _____
Writing _____

Progression in the Computerized Manufacturing & Machining 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
	CMM 110 Fundamentals of Machine Tools – A *No prerequisite* **AND** **CMM 112 Fundamentals of Machine Tools - B** *Prereq: CMM 110 or Consent of Instructor* **AND** **Electives** (Technical or General Education) (or (CMM 114 and Electives-5) or (CMM 130 and CMM 132 and Electives-6) or (CMM 134 and Electives-6) or (CMM 138 and Electives-6))	3 4 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) *No prerequisite*	2	
	CMM 110 Fundamentals of Machine Tools – A *No prerequisite* **AND** **CMM 112 Fundamentals of Machine Tools - B** *Prereq: CMM 110 or Consent of Instructor* (or CMM 114)	3 4	
	CMM 130 Manual Programming (or CMM 134 or CMM 138) *No prerequisite*	3	
	MAT 116 Technical Mathematics (sub MAT 110 or higher level mathematics) *Prereq: MAT 65 or equivalent as determined by KCTCS placement examination*	3	

DIPLOMA – MACHINIST: 41-44 Total Credit Hours

	Required Scores: Algebra–25/Reading–85/Writing–64 or 74	Cr Hr	Grade
	General Education:		
	Area 1 = Written Communication, Oral Communications, Heritage / Humanities *Rec. ENG 101*	3	
	Area 2 = MAT 116 Technical Mathematics (or MAT 126 or higher level mathematics) (sub MAT 110) *Prereq: MAT 65 or equivalent as determined by KCTCS placement examination*	3	
	Technical:		
	BRX 110 Basic Blueprint Reading for Machinist *No prerequisite* **AND** **BRX 210 Mechanical Blueprint Reading** *Prereq: BRX 110 or Consent of Instructor* (or BRX 112)	2 2	
	CMM 110 Fundamentals of Machine Tools – A *No prerequisite* **AND** **CMM 112 Fundamentals of Machine Tools - B** *Prereq: CMM 110 or Consent of Instructor* (or CMM 114)	3 4	
	CMM 118 Metrology/Control Charts *No prerequisite*	2	
	CMM 124 Applied Machining (or CMM 120 and CMM 122) *Prereq: (CMM 110 and CMM 112) or CMM 114 or Consent of Instructor*	6	
	CMM 130 Manual Programming (or CMM 134 or CMM 138) *No prerequisite*	3	
	CMM 214 Industrial Machining (or CMM 210 and CMM 212) *Prereq: CMM 122 or CMM 124 or Consent of Instructor*	6	
	CMM 224 Advanced Industrial Machining (or CMM 220 and CMM 222) *Prereq: (CMM 134 and (CMM 212 or CMM 214) or Consent of Instructor*	6	
	Computer Literacy course or competency demonstrated by exam *Rec. CIT 105*	0-3	
	Elective (Co-op or Practicum)	1	

CERTIFICATE – MACHINE TOOL OPERATOR II: 23-26 Total Credit Hours

	Required Scores: Algebra – 25 / Reading – 80 / Writing – 64	Cr Hr	Grade
	BRX 110 Basic Blueprint Reading for Machinist (or BRX 112) *No prerequisite*	2	
	CMM 110 Fundamentals of Machine Tools – A *No prerequisite* **AND** **CMM 112 Fundamentals of Machine Tools - B** *Prereq: CMM 110 or Consent of Instructor* (or CMM 114)	3 4	
	CMM 118 Metrology/Control Charts *No prerequisite*	2	
	CMM 124 Applied Machining (or CMM 120 and CMM 122) *Prereq: (CMM 110 and CMM 112) or CMM 114 or Consent of Instructor*	6	
	CMM 130 Manual Programming (or CMM 134 or CMM 138) *No prerequisite*	3	
	Computer Literacy course or competency demonstrated by exam *Rec. CIT 105*	0-3	
	MAT 116 Technical Mathematics (or MAT 126 or higher level mathematics) (sub MAT 110) *Prereq: MAT 65 or equivalent as determined by KCTCS placement examination*	3	

DIPLOMA - CNC MACHINIST: 56-59 Total Credit Hours

	Required Scores: Algebra–25/Reading–85/Writing–64 or 74	Cr Hr	Grade
	General Education:		
	Area 1 = Written Communication, Oral Communications, Heritage / Humanities *Rec. ENG 101*	3	
	Area 2 = MAT 116 Technical Mathematics (or MAT 126 or higher level mathematics) (sub MAT 110) *Prereq: MAT 65 or equivalent as determined by KCTCS placement examination*	3	
	Technical:		
	BRX 110 Basic Blueprint Reading for Machinist *No prerequisite* **AND** **BRX 210 Mechanical Blueprint Reading** *Prereq: BRX 110 or Consent of Instructor* (or BRX 112)	2 2	
	CMM 110 Fundamentals of Machine Tools – A *No prerequisite* **AND** **CMM 112 Fundamentals of Machine Tools - B** *Prereq: CMM 110 or Consent of Instructor* (or CMM 114)	3 4	
	CMM 118 Metrology/Control Charts *No prerequisite*	2	
	CMM 124 Applied Machining (or CMM 120 and CMM 122) *Prereq: (CMM 110 and CMM 112) or CMM 114 or Consent of Instructor*	6	
	CMM 130 Manual Programming *No prerequisite* **AND** **CMM 132 CAD/CAM/CNC** *No prerequisite* (or CMM 134 or CMM 138)	3 3	
	CMM 214 Industrial Machining (or CMM 210 and CMM 212) *Prereq: CMM 122 or CMM 124 or Consent of Instructor*	6	
	CMM 224 Advanced Industrial Machining (or CMM 220 and CMM 222) *Prereq: (CMM 134 and (CMM 212 or CMM 214) or Consent of Instructor*	6	
	CMM 230 Conversational Programming (or (CMM 2301 and CMM 2302) or CMM 234) *Prereq: Consent of Instructor*	6	
	CMM 240 Introduction to 3-D Programming (or (CMM 2401 and CMM 2402) or CMM 244) *Prereq: (CMM 130 and CMM 132) or CMM 134 or CMM 138 or Consent of Instructor*	6	
	Computer Literacy course or competency demonstrated by exam *Rec. CIT 105*	0-3	
	Elective (Co-op or Practicum)	1	

GENERAL OCCUPATIONAL / TECHNICAL STUDIES AAS DEGREE: (CNC MACHINIST DIPLOMA (56-59 Hours) PLUS 9 additional credit hours in General Education): 65-68 Total Credit Hours

	Required Scores: Algebra – 25 / Reading – 85 / Writing – 74	Cr Hr	Grade	Course
	ENG 101 Writing I (if not taken for diploma)	(3)		
	Heritage / Humanities (if not taken for diploma) *Prereq: See Compass / ACT score requirement*	3		
	Natural Sciences *Prereq: See Compass / ACT score requirement*	3		
	Social / Behavioral Sciences *Prereq: See Compass / ACT score requirement*	3		

College Success Courses As Needed: *It is strongly recommended that students complete a college success course. If a student is advised into two or three developmental education courses, it is strongly recommended they enroll in the 3 credit hour college success course.*

	College Success Courses	Cr Hr
	GEN 100 Introduction to College *No prerequisite*	1
	GEN 102 Foundations of Learning *No prerequisite*	3

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.*

	Developmental Math	Cr Hr
	MT 010 – KYAE Math *Compass score 0-23 in Pre-Algebra*	0
	MT 50 – Developmental Math Workshop **AND** **MAT 65 – Basic Algebra** *Compass score 24-41 in Pre-Algebra* (or MAT 55)	1-2 3
	MAT 65 – Basic Algebra *Compass score 16-30 in Algebra*	3
	MAT 85 – Intermediate Algebra *Compass score 31-35 in Algebra*	3
	MAT 100 – College Algebra Workshop *Compass score 36-49 in Algebra / ACT 19-21 -enroll concurrent in College Algebra (MAT 150)*	2
	Developmental Writing	
	EN 010 – KYAE English *Compass score 26-38*	0
	ENG 100 – English Workshop **AND** **ENG 101 – Writing I** *Compass score 39-73* (or ENC 91)	2 3
	Developmental Reading	
	RD 010 – KYAE Reading *Compass score 49-69*	0
	RDG 100 – Reading Workshop **AND** **Pre-Selected General Education Course** *Compass score 70-82* (or RDG 30)	2 3
	RDG 41 – Reading Laboratory *Compass score 83-84*	1

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