Computer Aided Drafting and Design

Student Name _____

Enrollment Date _____ **Academic Year** _____

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

Progression in the Computer Aided Drafting and Design program is contingent upon achievement of a grade of C or greater in each technical and mathematics course and maintenance of a 2.0 cumulative grade point average or above (on a 4.0 scale).

CERTIFICATE – DRAFTER ASSISTANT: 13-17 Total Credit Hours

	Required Scores: Algebra – 25 / Reading – 85 / Writing – 74	Cr Hr	Grade
	General Education:		
	Written Communication, Oral Communications or Heritage / Humanities *Rec. ENG 101 or COM 181 or COM 252*	3	
	Quantitative Reasoning (MAT 105 excluded)	3	
	Technical Core:		
	Computer/Digital Literacy course or competency demonstrated by exam *Rec. CIT 105*	0-3	
	CAD 100 Introduction to Computer Aided Design *No prerequisite* **OR**	3	
	CAD 103 CAD Fundamentals *No prerequisite*	(4)	
	CAD 102 Drafting Fundamentals *No prerequisite* **OR**	4	
	CAD 112 Engineering Graphics *Prereq: CAD 102 or Consent of Instructor*	(4)	

CERTIFICATE – DETAILER: 21-25 Total Credit Hours

	Required Scores: Algebra – 25 / Reading – 85 / Writing – 74	Cr Hr	Grade
	General Education:		
	Written Communication, Oral Communications or Heritage / Humanities *Rec. ENG 101 or COM 181 or COM 252*	3	
	Quantitative Reasoning (MAT 105 excluded)	3	
	Technical Core:		
	Computer/Digital Literacy course or competency demonstrated by exam *Rec. CIT 105*	0-3	
	CAD 100 Introduction to Computer Aided Design *No prerequisite* **OR**	3	
	CAD 103 CAD Fundamentals *No prerequisite*	(4)	
	CAD 102 Drafting Fundamentals *No prerequisite*	4	
	CAD 112 Engineering Graphics *Prereq: CAD 102 or Consent of Instructor*	4	
	CAD 200 Intermediate Computer Aided Drafting *Prereq: CAD 110 or Consent of Instructor*	4	

CERTIFICATE – COMPUTER ASSISTED DRAFTER: 26-33 Total Credit Hours

	Required Scores: Algebra – 25 / Reading – 85 / Writing – 74	Cr Hr	Grade
	General Education:		
	Written Communication, Oral Communications or Heritage / Humanities *Rec. ENG 101 or COM 181 or COM 252*	3	
	Quantitative Reasoning (MAT 105 excluded)	3	
	Technical Core:		
	Computer/Digital Literacy course or competency demonstrated by exam *Rec. CIT 105*	0-3	
	CAD 100 Introduction to Computer Aided Design *No prerequisite* **OR**	3	
	CAD 103 CAD Fundamentals *No prerequisite*	(4)	
	CAD 102 Drafting Fundamentals *No prerequisite*	4	
	CAD 112 Engineering Graphics *Prereq: CAD 102 or Consent of Instructor*	4	
	CAD 200 Intermediate Computer Aided Drafting *Prereq: CAD 110 or Consent of Instructor*	4	
	CAD 201 Parametric Modeling *No prerequisite*	4	
	Technical Elective *	1-4	

DIPLOMA – COMPUTER AIDED DRAFTING AND DESIGN: 48-52 Total Credit Hours

	Required Scores: Algebra – 25 / Reading – 85 / Writing – 74	Cr Hr	Grade
	General Education:		
	Area 1 = Written Communication, Oral Communications or Heritage / Humanities *Rec. ENG 101 or COM 181 or COM 252*	3	
	Area 2 = Quantitative Reasoning (MAT 105 excluded)	3	
	Technical Core:		
	Computer/Digital Literacy course or competency demonstrated by exam *Rec. CIT 105*	0-3	
	CAD 100 Introduction to Computer Aided Design *No prerequisite* **OR**	3	
	CAD 103 CAD Fundamentals *No prerequisite*	(4)	
	CAD 102 Drafting Fundamentals *No prerequisite*	4	
	CAD 112 Engineering Graphics *Prereq: CAD 102 or Consent of Instructor*	4	
	CAD 200 Intermediate Computer Aided Drafting *Prereq: CAD 110 or Consent of Instructor*	4	
	CAD 201 Parametric Modeling *No prerequisite*	4	
	Technical Electives * *Rec. CAD 212; CAD 222; CAD 240; CAD 292; and CAD 299 (3)*	23	

*** RECOMMENDED TECHNICAL ELECTIVES:** (This list is not all inclusive; other courses may be taken as approved by the program coordinator)

		Cr Hr	Grade
	CAD 130 Descriptive Geometry *Prereq: CAD 112 or Consent of Instructor*	4	
	CAD 212 Industrial Drafting Processes *Prereq: CAD 100 or Consent of Instructor*	4	
	CAD 222 Mechanical Design *Prereq: CAD 100 or Consent of Instructor*	4	
	CAD 240 Advanced Dimensioning and Measurement *Prereq: CAD 100 or Consent of Instructor*	4	
	CAD 292 Industrial Applications *Prereq: Consent of Instructor*	4	
	CAD 293 Special Problems *Prereq: Approval of Program Coordinator*	1-4	
	CAD 298 Practicum (or CAD 299) *Prereq: Approval of Program Coordinator*	1-3	

		Cr Hr	Grade
	CAD 299 Cooperative Education *Prereq: Approval of Program Coordinator*	1-3	
	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 130 Manual Programming *No prerequisite* **AND** **CMM 132 CAD/CAM/CNC** *No prerequisite* (or CMM 134)	3 3	

GENERAL OCCUPATIONAL / TECHNICAL STUDIES AAS DEGREE: (COMPUTER AIDED DRAFTING AND DESIGN DIPLOMA (48-52 Hours) PLUS 9-14 additional credit hours in General Education): 60-64 Total Credit Hours

	Required Scores: Algebra – 25 / Reading – 85 / Writing – 74	Cr Hr	Grade	Course
	Natural Sciences *Prereq: See Compass / ACT score requirement*	3		
	Social / Behavioral Sciences *Prereq: See Compass / ACT score requirement*	3		
	Written Communiations or Heritage / Humanities (credit used to fulfill diploma cannot be used to fulfill degree) *Prereq: See Compass / ACT score requirement*	3		
	Additional General Education Coursework	0-5		

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

	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

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.*

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: _____