

# 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: 10-17 Total Credit Hours

Required Scores: Pre-Algebra–NA/Reading–85/Writing–NA	Cr Hr	Grade
<b>Computer Literacy course or competency demonstrated by exam</b> <i>Rec. CIS 100</i>	0-3	
<b>CAD 102 Drafting Fundamentals</b> <i>No prerequisite</i>	4	
<b>CAD 112 Engineering Graphics</b> (or DFT 122) <i>Prereq: (CAD 102 with a grade of C or greater) or Consent of Instructor</i>	4	
<b>Technical Electives *</b>	2-6	

## CERTIFICATE – COMPUTER ASSISTED DRAFTER: 22-32 Total Credit Hours

Pre-Algebra–42 or Algebra-25/Reading–85/Writing–64 or 74	Cr Hr	Grade
<b>Choose one 3 credit course from the following categories:</b>	3	
<b>ENG 101 Writing I (3)</b>		
<b>MAT 110 Applied Mathematics (3)</b> (or higher level mathematics (excluding MAT 120))		
<b>Heritage / Humanities / Foreign Languages (3)</b>		
<b>Science (3)</b>		
<b>Social Interaction (3)</b>		
<b>Oral Communication (3)</b>		
<b>Computer Literacy course or competency demonstrated by exam</b> <i>Rec. CIS 100</i>	0-3	
<b>GEN 100 Introduction to College</b> <i>No prerequisite</i>	1	
<b>CAD 102 Drafting Fundamentals</b> <i>No prerequisite</i>	4	
<b>CAD 112 Engineering Graphics</b> (or DFT 122) <i>Prereq: (CAD 102 with a grade of C or greater) or Consent of Instructor</i>	4	
<b>DFT 122 Introduction to Computer Aided Drafting</b> <i>Prereq: (CAD 102 with a grade of C or greater) or Approval of Program Coordinator</i>	4	
<b>DFT 152 Intermediate Computer Aided Drafting</b> <i>Prereq: ((DFT 122 or CAD 100) with a grade of C or greater) or Approval of Program Coordinator</i>	4	
<b>Technical Electives *</b>	2-9	

## CERTIFICATE – DETAILER: 15-22 Total Credit Hours

Required Scores: Pre-Algebra–42 / Reading–85 / Writing–64	Cr Hr	Grade
<b>Computer Literacy course or competency demonstrated by exam</b> <i>Rec. CIS 100</i>	0-3	
<b>GEN 100 Introduction to College</b> <i>No prerequisite</i>	1	
<b>CAD 102 Drafting Fundamentals</b> <i>No prerequisite</i>	4	
<b>CAD 112 Engineering Graphics</b> (or DFT 122) <i>Prereq: (CAD 102 with a grade of C or greater) or Consent of Instructor</i>	4	
<b>DFT 122 Introduction to Computer Aided Drafting</b> <i>Prereq: (CAD 102 with a grade of C or greater) or Approval of Program Coordinator</i>	4	
<b>Technical Electives *</b>	2-6	

## DIPLOMA – COMPUTER AIDED DRAFTING AND DESIGN: 54-59 Total Credit Hours

Required Scores: Algebra–25/Reading–85/Writing–64 or 74	Cr Hr	Grade
<b>General Education:</b>		
<b>Area 1 = Writing / Accessing Information, Oral Communication or Heritage / Humanities / Foreign Languages</b> <i>Rec. ENG 101 or COM 181 or COM 252</i>	3	
<b>Area 2 = MAT 110 Applied Mathematics</b> (or higher level mathematics (excluding MAT 120))	3	
<b>Area 3 = Computer Literacy course or competency demonstrated by exam</b> <i>Rec. CIS 100</i>	0-3	
<b>Technical Core:</b>		
<b>GEN 100 Introduction to College</b> <i>No prerequisite</i>	1	
<b>CAD 102 Drafting Fundamentals</b> <i>No prerequisite</i>	4	
<b>CAD 112 Engineering Graphics</b> (or DFT 122) <i>Prereq: (CAD 102 with a grade of C or greater) or Consent of Instructor</i>	4	
<b>CAD 120 Introduction to Architecture</b> <i>Prereq: (CAD 100 with a grade of C or greater) or Consent of Instructor</i>	4	
<b>CAD 130 Descriptive Geometry</b> <i>Prereq: (CAD 112 with a grade of C or greater) or Consent of Instructor</i>	4	
<b>DFT 122 Introduction to Computer Aided Drafting</b> <i>Prereq: (CAD 102 with a grade of C or greater) or Approval of Program Coordinator</i>	4	
<b>DFT 152 Intermediate Computer Aided Drafting</b> <i>Prereq: ((DFT 122 or CAD 100) with a grade of C or greater) or Approval of Program Coordinator</i>	4	
<b>DFT 252 Parametric Modeling</b> <i>No prerequisite</i>	4	
<b>Technical Electives *</b> <i>Rec. CAD 212; CAD 222; CAD 240; CAD 292; and CAD 299 (3)</i>	19-21	

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

	Cr Hr	Grade		Cr Hr	Grade
<b>CAD 212 Industrial Drafting Processes</b> <i>Prereq: (CAD 100 with a grade of C or greater) or Consent of Instructor</i>	4		<b>DFT 250 Advanced Computer Aided Drafting</b> <i>Prereq: ((DFT 122 or CAD 100) with a grade of C or greater) or Approval of Program Coordinator</i>	4	
<b>CAD 222 Mechanical Design</b> <i>Prereq: (CAD 100 with a grade of C or greater) or Consent of Instructor</i>	4		<b>MTT 110 Fundamentals of Machine Tools – A</b> <i>No prerequisite</i>	3	
<b>CAD 240 Advanced Dimensioning and Measurement</b> <i>Prereq: (CAD 100 with a grade of C or greater) or Consent of Instructor</i>	4		<b>MTT 112 Fundamentals of Machine Tools - B</b> <i>Prereq: (MTT 110 with a grade of C or greater) or Consent of Instructor (or MTT 114)</i>	4	
<b>CAD 292 Industrial Applications</b> <i>Prereq: Consent of Instructor</i>	4		<b>MTT 118 Metrology/Control Charts</b> <i>No prerequisite</i>	2	
<b>CAD 293 Special Problems</b> <i>Prereq: Approval of Program Coordinator</i>	1-4		<b>MTT 130 Manual Programming</b> <i>No prerequisite</i>	3	
<b>CAD 298 Practicum</b> (or CAD 299) <i>Prereq: Approval of Program Coordinator</i>	1-3		<b>MTT 132 CAD/CAM/CNC</b> <i>No prerequisite (or MTT 134)</i>	3	

**GENERAL OCCUPATIONAL / TECHNICAL STUDIES AAS DEGREE: (COMPUTER AIDED DRAFTING AND DESIGN DIPLOMA (54-59 Hours) PLUS 9 additional credit hours in General Education): 63-68 Total Credit Hours**

Required Scores: Algebra – 25 / Reading – 85 / Writing – 74	Cr Hr	Grade	Course
<b>Science</b> <i>Prereq: See Compass / ACT score requirement</i>	3		
<b>Social Interaction</b> <i>Prereq: See Compass / ACT score requirement</i>	3		
<b>Writing / Accessing Information, Oral Communication or Heritage / Humanities / Foreign Languages</b> (credit used to fulfill diploma cannot be used to fulfill degree) <i>Prereq: See Compass / ACT score requirement</i>	3		

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