

Drafting and Design Technician (Technical Diploma)

The Drafting and Design Technician curriculum is designed to give the student essential knowledge and skills required for efficient and productive performance in the drafting field while facilitating the competitiveness of graduates for entry-level technical and supervisory positions. To provide options for students seeking varying amounts of technical expertise in Drafting, a career and technical certificate (CTC) may be earned in the first semester and a certificate of technical studies (CTS) may be earned in the second semester; a technical diploma may be earned upon completion of all technical courses. Students also have the option to complete the Technical Studies Associate of Applied Science with a concentration in Drafting and Design Technology by completing General Education courses in addition to the technical courses.

To receive any Drafting credential, the student must:

- Complete the program of study below.
- Earn a “C” or better in all courses that are to be used toward the credential.

Program Outcomes. Upon successful completion of the program, the graduate will be able to:

1. Demonstrate the essential knowledge and skills required for efficient and productive performance in the drafting field.
2. Demonstrate fundamental drafting skills with introductory training in several drafting disciplines and fundamentals in Computer-Aided Drafting.
3. Demonstrate the skills for one or more areas of specialization which includes the application of Computer-Aided Drafting in the selected discipline.
4. Demonstrate safe and efficient work practices, basic occupational employability skills, and strong work ethics.

Program of Study

First Semester		Credit Hours
CORE 1003	Introduction to Craft Skills	3
DRFT 1113	Introduction to Industrial Technology	3
DRFT 1123	Engineering Drafting	3
CSCI 1013/2203	Introduction to Computer Technology/Microcomputer Applications in Business	3
Select one of the following (first in student’s area of interest) ¹ :		3
ARTS 2103	Art History I ²	
<i>or</i>		
CMGT 1033	Construction Safety	
<i>or</i>		
PTEC 1013	Introduction to Process Technology	
Semester Total:		15
Second Semester		Credit Hours
DRFT 1213	Descriptive Geometry	3
DRFT 1223	Architectural Drafting	3
DRFT 1233	Pipe Drafting	3
DRFT 1243	Machine Design Drafting	3
Select one of the following (second in student’s area of interest) ¹ :		3
ARTS 2113	Art History II ²	
<i>or</i>		
CMGT 1213	Construction Materials and Methods	
<i>or</i>		

		Semester Total:	15
Third Semester			Credit Hours
DRFT 1313	Light Commercial Building Drafting		3
DRFT 1323	Civil Drafting Technology		3
DRFT 1333	Drafting and Design Portfolio		3
ARTS 1113/1123	Introduction to 2D Design/Introduction to 3D Design		3
Approved Drafting-related Elective ³			3
		Semester Total:	15
		Total Program Credit Hours:	45

- 1 Students should speak with an advisor before or shortly after declaring this program of study to determine which electives are appropriate for the students' educational and career/employment goals.
- 2 These approved General Education courses will not count towards both the completion of the technical diploma and fulfill the General Education requirement for three (3) credit hours of coursework in Fine Arts for students interested in completing the Technical Studies Associate of Applied Science (AAS).
- 3 Chose from the following according to the area of interest and education and career/employment goals:
 - ARTS 1023, Introduction to Fine Arts (may not be taken to fulfill both the General Education requirement for three (3) credit hours of Fine Arts for students interested in completing the Technical Studies Associate of Applied Science and the Approved Drafting Elective requirement.
 - ARTS 2003, Digital Art
 - CMGT 2203, Construction Project Management (note that the prerequisite for this course is Eligibility for ENGL 1013)
 - SPCH 2013, Techniques of Speech (note that the prerequisite for this course is Eligibility for ENGL 1013). This course is recommended for students interested in transferring to a four-year college or university.

Drafting and Design Credentials:

		Credit Hours
CORE 1003	Introduction to Craft Skills	3
DRFT 1113	Introduction to Industrial Technology	3
DRFT 1123	Engineering Drafting	3
CTC: Drafting Fundamentals		9

		Credit Hours
CORE 1003	Introduction to Craft Skills	3
DRFT 1113	Introduction to Industrial Technology	3
DRFT 1123	Engineering Drafting	3
CSCI 1013/2203	Introduction to Computer Technology/Microcomputer Applications in Business	3
DRFT 1213	Descriptive Geometry	3
DRFT 1223	Architectural Drafting	3
DRFT 1233	Pipe Drafting	3
DRFT 1243	Machine Design Drafting	3
CTS: Engineering Aid		24

		Credit Hours
CORE 1003	Introduction to Craft Skills	3
DRFT 1113	Introduction to Industrial Technology	3
DRFT 1123	Engineering Drafting	3
CSCI 1013/2203	Introduction to Computer Technology/Microcomputer Applications in Business	3
DRFT 1213	Descriptive Geometry	3
DRFT 1223	Architectural Drafting	3
DRFT 1233	Pipe Drafting	3
DRFT 1243	Machine Design Drafting	3
DRFT 1313	Light Commercial Building Drafting	3
DRFT 1323	Civil Drafting Technology	3
DRFT 1333	Drafting and Design Portfolio	3
ARTS 1113/1123	Introduction to 2D Design/Introduction to 3D Design	3
ELECTIVES		9
TD: Drafting and Design Technician		45

Students interested in pursuing the Technical Studies Associate of Applied Science degree with a concentration in Drafting and Design Technology should contact the Division of Technical Education at 225-216-8367 for more information.