

DRAFTING AND DESIGN TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE (AAS)

Locations: Gonzales, Online

The Drafting and Design Technology degree is a 60-credit hour program that prepares students for a successful career as a professional drafter who will be equipped with the advanced skills necessary to quickly advance to the level of senior technical designer. In addition to basic and advanced CADD skills, students are trained in 3D CADD applications and professional-level advanced programs such as Revit, Inventor, and the highly sought-after Plant 3D. Students also learn valuable general industry skills such as industrial safety and statistical quality control. Certificates and Diplomas are also available as the student progresses through the program. All courses applied to the degree must be passed with a "C" or better. Developmental courses will not be applied to the degree.

Curriculum

Course	Title	Hours
First Semester		
DRFT 1103	Introduction to Drafting	3
CADD 1104	Introduction to CAD	4
DRFT 1113	Print Reading	3
CPTR 1013	Intro to Computer Technology	3
ENGL 1013	English Composition I (General Education, English Composition)	3
Hours		16
Second Semester		
DRFT 1203	Intro To Disciplines	3
CADD 1204	Advanced CAD	4
SPCH 2013	Techniques of Speech	3
General Education, Humanities – select one: any HIST, PHIL 1013, PHIL 2013, or RELS 2213		3
General Education, Mathematics/Analytics Reasoning - Select one of the following:		3
MATH 1213	College Algebra	
MATH 1203	Applied Algebra	
Hours		16
Third Semester		
DRFT 2103	Pipe Drafting	3
CADD 2104	3D CAD	4
General Education, Natural Science - PHSC 1023		3
Elective(s) – choose two of the following courses:		6
PTEC 2633	Fluid Mechanics	
PTEC 2033	Plant Health, Safety, & Enviro	
GEOG 2313	Geographical Info Systems	
DRFT 2913	Drafting Internship	
Hours		16
Fourth Semester		
CADD 2213	Plant 3D	3
CADD 2223	Civil 3D	3
CADD 2233	Revit and Advanced Steel	3
General Education, Social Science – select one: any PSYC, SOCL, ECON, ANTH; WGNS 2503; or CRJU 1013		3
Hours		12
Total Hours		60

Additional Academic Awards in Drafting and Design Technology

Drafting Fundamentals, Career and Technical Certificate (CTC)

Code	Title	Hours
DRFT 1103	Introduction to Drafting	3
CADD 1104	Introduction to CAD	4
Total Hours		7

Students completing the Drafting Fundamentals CTC are prepared to take the AutoCAD Autodesk Certified User Exam and earn this industry-based certification (IBC).

Engineering Aide, Certificate of Technical Studies (CTS)

Code	Title	Hours
DRFT 1103	Introduction to Drafting	3
CADD 1104	Introduction to CAD	4
CPTR 1013	Intro to Computer Technology	3
CADD 1204	Advanced CAD	4
DRFT 1113	Print Reading	3
DRFT 1203	Intro To Disciplines	3
Total Hours		20

Drafting and Design Technician, Technical Diploma (TD)

Code	Title	Hours
DRFT 1103	Introduction to Drafting	3
CADD 1104	Introduction to CAD	4
DRFT 1113	Print Reading	3
CPTR 1013	Intro to Computer Technology	3
DRFT 1203	Intro To Disciplines	3
CADD 1204	Advanced CAD	4
Electives - choice of two courses (see Third Semester)		6
DRFT 2103	Pipe Drafting	3
CADD 2104	3D CAD	4
SPCH 2013	Techniques of Speech	3
CADD 2213	Plant 3D	3
CADD 2223	Civil 3D	3
CADD 2233	Revit and Advanced Steel	3
Total Hours		45

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

1. Produce accurate technical drawing using computer-aided drafting software.
2. Adhere to nationally recognized drafting practices and standards.
3. Produce industry-accepted drawings for various drafting fields.
4. Manage digital files.
5. Demonstrate the appropriate communication and technical skills expected in a professional environment.

For additional career-related information and resources, visit the RPCC Career Success webpage (<https://www.rpcc.edu/workforce-training/career-success-center/career-success-center/>).