



Computer-Aided Design

AAS (60 SCH*)

*Semester Credit Hour 8/2020

First Semester - 15 SCH

PSYC 1300 - Learning Framework
DFTG 1309 - Basic Computer-Aided Drafting
DFTG 1305 - Technical Drafting
DFTG 2319 - Intermediate Computer-Aided Drafting
DFTG 1325 - Blueprint Reading and Sketching

Second Semester - 15 SCH

DFTG 1345 - Parametric Modeling and Design
DFTG 2312 - Technical Illustration and Presentation
DFTG 2302 - Machine Drafting
DFTG 2340 - Solid Modeling/Design
SPCH 1321 - Business & Professional Communication

Third Semester - 15 SCH

DFTG 1317 - Architectural Drafting - Residential
DFTG 2321 - Topographical Drafting
DFTG 2331 - Advanced Technologies in Architectural Design and Drafting
DFTG 2328 - Architectural Drafting - Commercial
ENGL 1301 - Composition I

Fourth Semester - 15 SCH

DFTG 1358 - Electrical/Electronic/Drawing
DFTG 2323 - Pipe Drafting
DFTG 2338 - Final Project - Advanced Drafting
MATH 1314 - College Algebra
DRAM 1310 - Introduction to Theater

Marketable Skills

Math Skills; manage time and materials; acquire and evaluate information; interpret and communicate information; oral and written communications skills; computer skills; teamwork; cultural diversity; apply technology to work; creative thinking; decision making; problem solving; self-management; Visualization; AutoCAD Operator; Blueprint Reading; Use of Civil Design Software-Civil 3D; Use of Architectural Design Software - Revit; Use of Mechanical Design Software - Solidworks; Use of Survey Instruments; Use of Design Tools and Scales; 3D Modeling; 3D printing; Parametric Modeling; Building Information Modeling.

Program Outcomes

- Operate a 2D CAD Design program.
- Read and interpret blueprints.
- Design and document in 3D with a parametric modeling program.
- Create construction and manufacturing documents using various CAD programs.
- Operate and maintain a 3D printer.

High School Endorsements

Business and Industry

Additional Educational Opportunities

Bachelor of Arts in Applied Science

Career Opportunities

CAD technician; Architectural CAD designer; Mechanical CAD designer; Civil CAD designer; Pipe CAD designer; Electrical CAD designer; Surveyor CAD technician; Graphics designer; Rapid prototyping technician; Parametric modeler; Building information modeler; Landscape designer technician; Interior designer technician.