



## Drafting and Design Technology

Associate of Applied Science

Manufacturing, Logistics, & Transportation Pathway

AC Course Number	Required Course Titles	Credit Hours	Semesters Offered	Course Modalities
<b>FIRST YEAR</b>				
<b>First Semester</b>				
<input type="checkbox"/> DFTG 1409	Basic Computer-Aided Drafting	4	F	F2F
<input type="checkbox"/> DFTG 1405	Technical Drafting	4	F	F2F
<input type="checkbox"/> DFTG 1325	Blueprint Reading and Sketching	3	F, Sp, Su	F2F, Hyb
<input type="checkbox"/> ENGL 1301	Composition I	3	F, W, Sp, Su	F2F, Int, Hyb
<input type="checkbox"/> STSU 0300	Student Success	0	F, W, Sp, Su	F2F, Int, Hyb
<b>Second Semester</b>				
<input type="checkbox"/> TECM 1301	Industrial Mathematics	3	F, W, Sp, Su	F2F, Hyb
<input type="checkbox"/> DFTG 1417	Architectural Drafting – Residential	4	Sp	F2F
<input type="checkbox"/> DFTG 1433	Mechanical Drafting	4	Sp	F2F
<input type="checkbox"/> DFTG 2430	Civil Drafting	4	Sp	F2F
<b>SECOND YEAR</b>				
<b>First Semester</b>				
<input type="checkbox"/> XXXX x3xx	Elective	3	F, W, Sp, Su	F2F, Int, Hyb
<input type="checkbox"/> PHYS 1305	Elementary Physics	3	F, W, Sp, Su	F2F, Int, Hyb
<input type="checkbox"/> XXXX 13xx	Creative Arts Core*	3	F, W, Sp, Su	F2F, Int, Hyb
<input type="checkbox"/> DFTG 2402	Machine Drafting	4	F	F2F
<input type="checkbox"/> DFTG 2421	Topographical Drafting	4	F	F2F
<b>Second Semester</b>				
<input type="checkbox"/> SPCH 1318 or SPCH 1315	Interpersonal Communication or Public Speaking	3	F, W, Sp, Su	F2F, Int, Hyb
<input type="checkbox"/> ARCE 2452	Mechanical and Electrical Systems	4	Sp	F2F
<input type="checkbox"/> ARCE 1452	Structural Drafting	4	Sp	F2F
<input type="checkbox"/> SOCI 1301 or PSYC 2301	Introductory Sociology or General Psychology	3	F, W, Sp, Su	F2F, Int, Hyb
<b>TOTAL CREDIT HOURS</b>		60		

\* Choose from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 1310

Semesters: Fall (F), Winter (W)Spring (Sp), Summer (Su)

Modalities: Face-to-face (F2F), Internet/online (Int), Hybrid (Hyb)

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### Transfer Opportunities

While most Associate's Degree programs in CAD drafting are designed to prepare students for the workforce, graduates wanting to continue education, can pursue a Bachelor's of Applied Arts and Sciences Degree in a related area of study such as Industrial Technology or Interior Design. Some course credits from an associate's program may be transferable.

### Career Opportunities and Salaries

Design CADD Operator as a:

- Architectural CADD Designer - \$58,838
- Mechanical CADD Designer - \$44,951
- Civil CADD Designer - \$41,535
- Commercial CADD Designer - \$54,596
- Electronics/Electrical CADD Designer - \$50,082
- Drafting and Design Technician - \$37,498
- Engineering Technician - \$43,159
- Lead Drafter - \$53,629
- 3D Printing Technician - \$49,964

### Marketable Skills

- 1) Work well on a team
- 2) Define, explain and interpret technical information
- 3) Use critical thinking to identify strengths and weakness to determine solutions
- 4) Identify appropriate information sources
- 5) Use math to answer questions
- 6) Schedule/coordinate Operations
- 7) Use current technology to diagnose and solve problems
- 8) Use Troubleshooting to determine causes and decide what to do about it
- 9) Think on your feet

### Technical Skills

- Design plans using computer-aided design (CAD) software
- Work from rough sketches and specifications created by engineers and architects
- Design products with engineering and manufacturing techniques
- Add details to architectural plans from their knowledge of building techniques
- Specify dimensions, materials, and procedures for new products
- Work under the supervision of engineers or architects
- Decision making, Time-management, multitasking and Math skills
- Being Creativity, Detail oriented, and learning Interpersonal skills

Semesters: Fall (F), Winter (W)Spring (Sp), Summer (Su)

Modalities: Face-to-face (F2F), Internet/online (Int), Hybrid (Hyb)