



SUNY NIAGARA
Computer Aided Drafting & Design, A.A.S.

Overview

The fully automated CADD program emphasizes technical design. At the same time, students will develop a full understanding of industrial systems that will prepare them for a career using CADD in mechanical, piping, civil/architecture or electrical design drafting in a variety of settings that include light and heavy industry, civil and architectural offices and related businesses.

Careers

Careers related to your program of study:

- Architectural Designer
- Architectural Drafter
- Civil MEP Designer
- Electrical Drafter
- Fire Suppression System Designer
- Mechanical Designer
- Mechanical Drafter
- Process Piping Designer
- Process Piping Drafter
- Pressure Vessel Designer
- Structural Designer
- Structural Drafter

Some careers may require more specialized education.

Contact

Program Coordinator

Mark Voisinet

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Division

Business & STEM

716-614-6410

Visit full catalog for specific course offerings for each semester:

<https://sunyniagara.edu/courses/computer-aided-drafting-design-cadd-mechanical-process-piping-and-control-a-a-s/>

<https://tinyurl.com/mry5acy4>

Program Requirements

First Semester

Credits

| | |
|--|---|
| DRF 173/L - Intro to Computer Aided Drafting Design w/ Lab | 2 |
| DRF 180 - Drafting Techniques I | 3 |
| DRF 181/L - Civil/Architectural Commercial Drafting w/ Lab | 4 |
| ENG 101 - Writing I | 3 |
| MAT ____ - Mathematics & Quantitative Reasoning (MATH) | 4 |

Total Credit Hours: 16 Cr.

Second Semester

| | |
|---|---------------|
| DRF 182/L - Process Piping Drafting - CADD w/ Lab | 4 |
| DRF 275/L – Adv. Computer Aided Design & Drafting w/ Lab | 3 |
| MAT ____ - Mathematics & Quantitative Reasoning (MATH) | 4 |
| TEC 110 - Introduction to Technical Calculations | 1 |
| ____ ____ - Natural Science & Scientific Reasoning Elective | 3 |
| Total Credit Hours: | 15 Cr. |

Third Semester

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|--|---------------|
| DRF 279 - Technical Seminar | 1 |
| DRF 286/L - ASME Pressure Vessel & Structural Design (CADD) w/ Lab | 4 |
| ELT 250/L - Electrical Design Drafting CADD w/ Lab | 2 |
| ____ ____ - Communication – Oral (COMO) Gen Ed elective | 3 |
| MET 260/L - Hydraulics and Pneumatics w/ Lab | 3 |
| TEC 120 - Applied Engineering Mechanics | 3 |
| Total Credit Hours: | 16 Cr. |

Fourth Semester

| | |
|--|---------------|
| DRF 283/L - Mechanical Design (CADD) w/ Lab | 4 |
| DRF 285 - Structural Design Drafting CADD | 2 |
| ____ ____ - Diversity: Equity, Inclusion & Social Justice (DVRS) Gen Ed elective | 3 |
| ____ ____ - Approved Technical Elective | 2 |
| ____ ____ - General Education elective (SOCS, USCV, ARTS, HUMN, GLBL, or WLNG) | 3 |
| MET 205 - Mechanics of Materials | 3 |
| Total Credit Hours: | 17 Cr. |

The information provided is subject to change throughout the academic year. 3/9/2026