



## SUNY NIAGARA

### Computer Aided Drafting & Design (CADD): Mechanical, Process Piping and Control, 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

716-614-6861

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##### Division

Business & STEM

716-614-6410

*Visit full catalog for specific course offerings for each semester:*

[www.niagaracc.suny.edu/programs/cadd](http://www.niagaracc.suny.edu/programs/cadd)

#### Program Requirements

##### First Semester

	<b>Credits</b>
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
<b>Total Credit Hours:</b>	<b>16 Cr.</b>

##### 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
<b>Total Credit Hours:</b>	<b>15 Cr.</b>

##### Third Semester

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
<b>Total Credit Hours:</b>	<b>16 Cr.</b>

##### 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
<b>Total Credit Hours:</b>	<b>17 Cr.</b>

*The information provided is subject to change throughout the academic year.*