

# CADD Technology

CERTIFICATE OF ACHIEVEMENT (CA)

REQUIRED CREDITS: 30

DEGREE CODE: CADD-CT

## DESCRIPTION

This program provides students with the skills to plan, prepare, interpret technical drafting documents, and create additive manufacturing prototype models. Students develop these skills through computer-aided design and drafting (CADD) workstations and 3D printers. Instruction also includes office standards, ethics, equipment maintenance, and production techniques.

## STUDENT LEARNING OUTCOMES

- Perform tasks in operating a CADD workstation using industry standard software used in Southern Nevada.
- Create Two-Dimensional construction documents and Three-Dimensional solid models using the drafting tools within the CAD software that will apply to their discipline to a degree of 80%.
- Practice office standards, techniques and procedures in the workplace to a degree of 80%.
- Design projects to their specific discipline of study and create documents and/or solid models to a degree of 80%
- Demonstrate adequate knowledge of mathematics, communications skills, and other core degree requirements. Graduates will be ready to be employed as an entry-level CADD technician.

**PLEASE NOTE** - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

## GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

### COMMUNICATIONS (3 credits)

Required: COM 115 Applied Communication

## SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

### CORE REQUIREMENTS (27 credits)

CADD 100	Introduction to Computer Aided Drafting	3
CADD 105	Intermediate Computer Aided Drafting	3
CADD 140	Technical Drafting I	3
CADD 141B	Technical Drafting II	3
CADD 245	Solid Modeling and Parametric Design	3
CADD 246B	Solid Modeling and Parametric Design II	3
CADD 250	CAD Systems Management	3
CADD 299B	CADD Capstone	3
MATH 104B	Applied Mathematics (or above) (except MATH 115B, 122, 123)	3

### Digital Literacy Requirement (0-3 credits)

IS 100B	Core Computing Competency	0
IS 101	Introduction to Information Systems	3

Computation included in MATH 104B or above (except MATH 115B, 122, 123)

Human Relations included in CADD 250

## FULL-TIME STUDENT DEGREE PLAN

*Add more semesters to modify this plan to fit part-time student needs.*

FIRST SEMESTER	Credits
COM 115 Applied Communication	3-5
CADD 100 Introduction to Computer Aided Drafting	3
MATH 104B or above (except MATH 115B, 122, 123)	3
IS 100B or IS 101 <sup>1</sup>	0-3
<b>TOTAL CREDITS</b> .....	<b>9-14</b>

SECOND SEMESTER	Credits
CADD 105 Intermediate Computer Aided Drafting	3
CADD 140 Technical Drafting I <sup>2</sup>	3
CADD 245 Solid Modeling and Parametric Design <sup>2</sup>	3
CADD 250 CAD Systems Management <sup>2</sup>	3
<b>TOTAL CREDITS</b> .....	<b>12</b>

THIRD SEMESTER	Credits
CADD 141B Technical Drafting II <sup>3</sup>	3
CADD 246B Solid Modeling and Parametric Design II <sup>3</sup>	3
CADD 299B CADD Capstone <sup>3</sup>	3
<b>TOTAL CREDITS</b> .....	<b>9</b>

**DEGREE PLAN TOTAL CREDITS**..... **30-35**

<sup>1</sup>IS 100B is a certification test, if certification test isn't passed, student must take IS 101. The student can always bypass IS 100B and just take IS 101.

<sup>2</sup>This course is offered in the Spring only.

<sup>3</sup>This course is offered in the Fall only.

- NOTE**
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
  - Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit [www.csn.edu/honors](http://www.csn.edu/honors).
  - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement (only AA, AS, and AB degrees) which may be used to fulfill the corresponding general education or emphasis requirement.
  - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

