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Associate of Applied Science  
COMPUTER AIDED DRAFTING  
(Industrial Design & Drafting)/2014-2016

When you successfully complete this program you will be prepared for entry-level CAD positions in engineering, architectural, construction, or surveying firms.

**GENERAL EDUCATION (24-25 CR)**

**Area I. Communications (6 cr)**

ENG 111 English Composition I (3)

*Prerequisites: ENG 109N (3) or adequate score on the Course Placement Evaluation*

*Choose one of the following three courses:*

ENG 112 English Composition II (3)

*Prerequisite: ENG 111 (3)*

ENG 116 Technical Writing (3)

*Prerequisite: ENG 111 (3)*

SPCH 130 Public Speaking (3)

*Prerequisite: ENG 109N (3) or adequate score on the Course Placement Evaluation*

**Areas II and III. Mathematics/Computers/Laboratory Science (10-11 cr)**

MATH 130 Intermediate Algebra (4)

*Prerequisite: MATH 102N (4) or MATH 103N (4) or adequate score on the Course Placement Evaluation*

BCIS 102 Computer Literacy (3)

*Choose one of the following electives (3-4):*

ENGR 110 Intro to Engineering Technology with lab (3)

*Prerequisite: MATH 102N (4), MATH 103N (4) or adequate score on the Course Placement Evaluation*

PHYS 110/L Intro to Physics with lab (4)

PHYS 121/L Applied Physics with lab (4)

*Prerequisite: MATH 130*

or other advisor-approved mathematics, science, or engineering course (3-4)

**Area IV. Social/Behavioral Sciences (3 cr)**

Elective (3)

Choose from Anthropology, Economics, Geography, Political Science, Psychology, or Sociology.

*Prerequisite: ENG 109N (3) or adequate score on the Course Placement Evaluation*

**Area V. Humanities and Fine Arts (3 cr)**

HUM 100 FYE: History and Culture of Northern New Mexico (3)

*Prerequisite: ENG 108N (3) or adequate score on the Course Placement Evaluation*

**Area VI. Library Technology (1 cr)**

LT 101 Library Research Skills (1)

**HPER (1 cr)** Elective (1)

**PROGRAM REQUIREMENTS (45-46 CR)**

**General Drafting (32 cr)**

- DRFT 100 Computer Aided Drafting I (4)  
DRFT 101 Residential CAD I (4) *Prerequisite: DRFT 100*  
DRFT 102 Mechanical Engineering CAD I (4) *Prerequisite: DRFT 100*  
DRFT 103 Surveying and CAD Mapping I (4)  
*Prerequisite: DRFT 100, MATH 100N (4), and ENG 108N (3)*  
DRFT 110 GIS/GPS (3)  
DRFT 111 Commercial Building CAD (4)  
*Prerequisite: DRFT 101, MATH 100N (4), and ENG 108N (3)*  
DRFT 112 Mechanical Engineering CAD II (4)  
*Prerequisite: DRFT 102, MATH 102N (4), and ENG 108N (3)*  
DRFT 113 Surveying and CAD Mapping II (4)  
*Prerequisite: DRFT 103 and MATH 102N (4) or MATH 103N (4)*  
DRFT 199 Job Skills (1)  
*Prerequisite: ENG 109N (3)*

Choose one of the following course combinations (6-7):

- DRFT 201 Residential CAD II (4)  
*Prerequisite: DRFT 101*  
and  
CONS 206 Building Construction (3)  
*Prerequisite: MATH 100N (4) and ENG 108N (3)*
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- or  
DRFT 202 Mechanical Engineering CADIII (4)  
*Prerequisite: DRFT 112*  
and  
DRFT 238 3D Mechanical Modeling (2)  
*Prerequisite: DRFT 113*
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- or  
DRFT 203 Civil Engineering CAD (4)  
*Prerequisite: DRFT 113*  
and  
CONS 206 Building Construction (3)  
*Prerequisite: MATH 100N (4) and ENG 108N (3)*

**Electives (7 cr minimum)**

Any advisor-approved DRFT, ME, MATH, Science or CTE-related elective.

**TOTAL CREDITS: 69-71**