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## Associate of Applied Science COMPUTER AIDED DRAFTING 2012-2014

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)**

- 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)*
- OR
- DRFT 202 Mechanical Engineering CADIII (4)  
*Prerequisite: DRFT 112*
- and
- DRFT 238 3D Mechanical Modeling (2)  
*Prerequisite: DRFT 113*
- 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**