

COMPUTER ASSISTED DESIGN AND DRAFTING TECHNOLOGY

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Associate of Applied Science Degree

20603

Advisor: Doug Griffin

The Computer Assisted Design and Drafting program prepares students to succeed as a CADD technician. This degree specializes in 3D design concepts, 3D solids and parametric modeling, residential and commercial architectural design and planning, and cartography (civil drawing). This AAS degree is also available as a transfer degree to a BAS program. See your advisor for information concerning the transfer degree.

Curriculum Requirements

AMT 102	Materials for Industry	3 credits
BUA 259	Business Communications	3 credits
DRF 150	Dimensioning and Tolerancing	2 credits
DRF 154	Introduction to AutoCAD	2 to 3 credits
DRF 160	Descriptive Geometry	3 credits
DRF 170	Residential Architecture	2 to 3 credits
DRF 220	Parametric Solid Modeling	3 credits
DRF 230	Civil Drafting	3 credits
DRF 232	Structural Drafting	2 to 3 credits
DRF 271	Advanced AutoCAD	2 to 3 credits
DRF 290	Drafting Capstone Project	2 credits

Select one of the following options:

Option 1:
AMT 101 Fundamentals of Machining 2 credits

Option 2:
EGR 250 Plane Surveying OR
WLD 101 Welding 3 credits

Total Curriculum Requirements - 29 to 34 credits with a GPA of 2.00 or higher

Curriculum Related Requirements

In addition to the required courses above, select from the following Curriculum Related courses to complete a total of 38 curriculum credits:

AMT 104	Machining and Fabrication	3 credits
AMT 110	Introduction to Fab Lab Technology	2 credits
AMT 111	Fab Lab Workshop I	1 to 3 credits
AMT 211	Fab Lab Workshop II	1 to 3 credits
AMT 140	Intro to CNC Programming	2 credits
AMT 220	Advanced Manufacturing Methods	4 credits
AMT 240	Advanced Manufacturing Production Processes	3 credits
ART 101	Fundamentals of Design	3 credits
AUT 105	Automotive Electrical Fundamentals	2 credits
CMP 113	Operating Systems I	3 credits
CMP 121	Visual Basic Programming I	3 credits
CMP 151	Computer Systems I	3 credits
COE 111	Cooperative Education I (Occupational)	1 to 4 credits
DRF 235	Geographic Information Systems I	2 credits
DRF 236	Geographic Information Systems II	3 credits
DRF 262	Commercial Architecture	2 to 3 credits
DRF 299	Independent Study	1 to 3 credits
EGR 102	Introduction to Engineering	4 credits
EGR 214	Engineering Mechanics I - Statics	3 credits
EGR 215	Engineering Mechanics II - Dynamics	3 credits
EGR 233	Mechanics of Materials	3 credits
EGR 250	Plane Surveying	3 credits
IAR 101	Woodworking	2 to 3 credits
IAR 120	Machine Woodworking	2 to 3 credits
TEC 133	Safety Practices for Industry	1 credit
THC 231	Stagecraft	3 credits
THC 236	Introduction to Scene Design	3 credits
WLD 108	Welding and Metal Fabrication	3 credits

Total Curriculum Related Requirements - 4 to 9 credits with a GPA of 2.00 or higher

General Education Requirements

Composition

ENG 100	Writing Fundamentals OR	
ENG 101	Written Communications I	3 credits
TEC 260	Technical Report Writing OR	
ENG 102	Written Communications II	3 credits

Mathematics

MAT 100	Applied Mathematics or higher	3 to 5 credits
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Select a sufficient number of credits from the list of General Education courses here to obtain the 18 credits required. You may not exceed nine credits in any GE category, with the exception of Health and Physical Education where the maximum is two credits.

Courses listed in Curriculum Requirements that qualify for General Education credit (see the General Education section of the catalog) may fulfill both General Education and Curriculum Requirements unless General Education Requirements are specified in the major. Each course taken to satisfy the General Education Requirements of this degree must be completed with a grade of "C" or better.

Elective Requirements

To earn this degree you must select a sufficient number of elective credits numbered 100 or above to obtain the 60 credit hours required. For students earning the AAS degree, it is highly recommended students choose electives from the Curriculum Related courses. For students transferring to a BAS program, it is highly recommended students choose additional General Education courses to complete the AGEC-A requirements. If you plan to transfer, consult the catalog or an advisor from the school you will transfer to as you make your selections.

Total Elective Requirements - 4 credits

In addition to completing the required courses listed above, you must meet the following general graduation requirements to obtain this degree:

- Complete at least 16-degree credits at Eastern Arizona College.
- Attain a cumulative grade point average of 2.00 or higher.
- File a Graduation Petition at least 60 calendar days prior to the end of the semester in which graduation is anticipated.
- Remove any indebtedness to the College.