



Earn your certificate on the way to your degree!

Computer Aided Drafting (CAD)/ Geographic Information Systems (GIS) Certificate

Complete your CAD/GIS Certificate and be one step closer to earning your associate of applied science degree in CAD!

By obtaining your CAD/GIS certificate, you will stand out compared to other candidates for jobs. GIS can be utilized and applied in many different professions, including:

- ▶ City/Urban Planner
- ▶ Construction Management
- ▶ Farmers/Ranchers
- ▶ Law Enforcement
- ▶ Energy Extraction (Oil/Gas)
- ▶ Conversationalist
- ▶ Computer Programmer
- ▶ Education

This is not an exhaustive list as there are more jobs that can utilize GIS. The skills gained from this certificate will set you apart when it's time to find employment in different fields. Only three courses are required to obtain the certificate and all of them can be completed online.

Certificate Classes

CAD 2332 Civil 3D

Provides students with the basics to advanced software application necessary to produce 3D Civil models and 2D drawings using the Civil 3D software. This course will cover topics including components and program interface, linework, geometry, 2D to 3D Civil CAD applications. Three credits.

GIS 1001 Introduction to Geographic Information Systems

Surveys the development, application and use of geographic information systems (GIS). Three credits.

GIS 2010 Intermediate GIS

Builds on the spatial analysis principles and concepts of GIS 101. Students work with advanced analytical tools and develop skills in spatial problem solving. Three credits.



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Aims / *All in.*
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Computer Aided Drafting (CAD) Associate of Applied Science Degree

Program Requirements

AEC 1200 Print Reading Res/Commercial.....	3 credits
CAD 1100 Print Reading for CAD.....	3 credits
CAD 1101 Computer Aided Drafting/2D I.....	3 credits
CAD 1102 Computer Aided Drafting/2D II.....	3 credits
CAD 1113 Chief Architect.....	3 credits
CAD 1109 AutoCAD Proficiency Prep II.....	3 credits
CAD 2220 Revit Architecture.....	3 credits
CAD 2460 Inventor.....	3 credits
OR	
CAD 2455 SolidWorks/Mechanical.....	3 credits
Total Required Program Credits.....	21

General Education Requirements

CIS 1018 Intro to PC Applications.....	3 credits
COM 1150 Public Speaking.....	3 credits
OR	
COM 1250 Interpersonal Communication: GT-SS3.....	3 credits
ENG 1021 English Composition [CO1].....	3 credits
OR	
ENG 1031 Technical Writing [CO1].....	3 credits
MAT 1150 Technical Mathematics.....	4 credits
OR	
MAT 1340 College Algebra [MA1].....	3 credits
OR	
MAT 1260 Intro to Statistics [MA1].....	3 credits
GEO 1005 World Regional Geography [SS2].....	3 credits
OR	
PHY 1105 Conceptual Physics w/Lab [SC1].....	4 credits
OR	
PHY 1111 Phys: Alg-Based I w/Lab [SC1].....	5 credits
Total Required Program Credits.....	15-18

Program Elective Courses

Choose a minimum of 24 credits from the following electives:

AEC 1520 Construction Materials and Systems.....	3 credits
AEC 2530 Soil Mechanics.....	3 credits
AEC 2620 Surveying.....	3 credits
AEC 2611 Estimating II: Cost Analysis.....	3 credits
CAD 1110 Sketchup.....	3 credits
CAD 2402 CAD/Custom.....	3 credits
CAD 2400 Computer Aided Drafting/3D.....	3 credits
CAD 2330 AutoDesk Navisworks.....	3 credits
CAD 2204 CAD Architecture.....	3 credits
CAD 2221 Advanced Revit Architecture.....	3 credits
CAD 2332 Civil 3D (Software).....	3 credits
CAD 2464 Fusion/AutoDesk.....	3 credits
CAD 2456 Advanced Solidworks.....	3 credits
CAD 2660 3D Printing.....	3 credits
CAD 2075 Special Topics.....	1-6 credits
CAD 2080 Internship.....	1-6 credits
COM 1001 Employment Strategies.....	1 credit
ELT 1206 Fundamentals of DC/AC.....	4 credits
ELT 2368 Robotics Technologies.....	3 credits
GIS 1001 Introduction to GIS.....	3 credits
GIS 2010 Intermediate GIS.....	3 credits
MAC 1000 Machine Shop Safety.....	1 credit
MAC 1001 Introduction to Machine Shop.....	3 credits
MAC 1010 Introduction to Engine Lathe.....	3 credits
MAC 1020 Introduction to Milling Machine.....	3 credits
MAC 2001 Introduction to CNC Turning Operations.....	3 credits
MAC 2005 Introduction to CNC Milling Operations.....	3 credits
Total Elective Credits.....	24

 = CAD/GIS Certificate classes



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