

# Computer-Aided Design# - Computer-Aided Technology

## Certificate of Mastery

*Minimum of 19 Credits*

The Computer-Aided Design Certificate allows an individual to certify a level of expertise as a Computer-Aided Design Technician. The certificate of mastery includes most of the major courses required for an Associate in Applied Science in Computer-Aided Technology - Computer Aided Design Emphasis.

Students interested in the virtually limitless applications for computers in engineering and architecture design may want to consider earning a certificate of mastery in Computer-Aided Design. A certificate can be earned by completing 19 credit hours of pre-selected coursework. Subjects include 3D CAD Modeling, Applications in CAD and other topics that relate directly to work in the field of Computer-Aided Design. This certificate is particularly helpful for people currently working in the engineering and architecture disciplines. It shows that the certificate holder has special knowledge in Computer-Aided Design.

Areas of emphasis are also available in Game Design, Multimedia and Geographic Information Systems (GIS). Students should seek a faculty advisor early in the program.

Course #	Course Name	Credits	Type	Prerequisites
<i>Suggested Freshman 1st Semester</i>				
CAT 1043	ENGINEERING PRINCIPLES	3	Major	(R) (W)
CAT 1214	COMPUTER-AIDED DESIGN (CAD)	4	Major	(R) (M)
<i>Suggested Freshman 2nd Semester</i>				
CAT 1253	CAD 3D MODELING	3	Major	(R) (W) (M), CAT 1043 and CAT 1214 or Evaluation by Instructor
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<i>Suggested Sophomore 1st Semester</i>				
CAT 2540	APPLICATIONS IN CAD	3	Major	(R) (W) (M), CAT 1043 and CAT 1214 or Evaluation by Instructor
CAT 2540	APPLICATIONS IN CAD --OR--		Major	(R) (W) (M), CAT 1043 and CAT 1214 or Evaluation by Instructor
CAT 2703	PRACTICUM	3	Major	(R) (W) (M), 12 hours of CAT courses and Evaluation by Instructor

*Major Courses: (19 credit hours) Computer-Aided Technology: CAT 1043, CAT 1214, CAT 1253, CAT 2540 (6 hrs: Take twice with different emphasis) or CAT 2540 (3 hrs) & CAT 2703; \* Electives: Faculty Approved Electives (3 hrs)*

*Notes: A Certificate of Mastery program is designed to meet the needs of an individual who wants to enter the job market following the completion of the certificate.*

*#Cooperative agreements have been established with Francis Tuttle, Moore Norman, Metro Tech and Mid-America Technology Centers.*

*\*Approved Support Electives must have a CAT prefix and must be approved by a Program Faculty Advisor.*