



Advanced AutoCAD

CAD 251.H60

Winter 2020

Number of Credits: 4

Office: JW

Days Class Meets: Wednesdays

Contact Phone: (734) 883 4557

Meeting Times: 9:30 am, scheduled online

Contact Email: BurkheaEdwardL@jccmi.edu

Location: Online

Office Hours: by appointment, online

Instructor: Eddie Burkhead

Online:

COVID-19 Revised 3/21/2020: Due to the COVID-19 outbreak, this course will be delivered in an online format for the Winter 2020 semester. This syllabus has been revised to reflect those changes. All weekly course expectations will be posted on Monday of each week, and online resources including JetNet, instructor created videos, and Big Blue Button

Course Description

This is a second level CAD based design course that will expand the student's knowledge of 3D CAD modeling, 3D assemblies, and more complex CAD based designs. 3D Stereolithographic printers and other prototyping equipment will be used to construct design projects.

This course will provide additional experience to students wishing to take the AutoDesk Certified User Examination.

Prerequisite(s)

CAD 151

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Course Objectives

- Create CAD drawings of various manufacturing based parts to high detail and accuracy
- Utilize 3D modeling to create full Cad models appropriate for rapid prototyping
- Utilize proper dimensioning standards and view placements and GDT where required
- Certify designs by using rapid prototyping equipment
- Gain experience for AutoDesk Certified User Examination.

Textbook

AutoCAD 2018 Tutorial Second Level 3D Modeling. Shih, Randy H.

Grading Procedure

Projects (10) x 10 points each = 100 points

All projects will be submitted via email to the course instructor, who will grade and provide feedback.

TOTAL: 200 points

Grading Scale

GPA	GRADE RANGE
4.0	92-100%
3.5	85-91%
3.0	80-84%
2.5	75-79%
2.0	70-74%
1.5	65-69%
1.0	60-64%
0.5	55-59%
0.0	0-54%

Failure

Any grade under 2.0 will result in failure

Academic Honesty Policy

Academic Honesty is defined as ethical behavior that includes student production of their own work and not representing others' work as their own, by cheating or by helping others to do so.

Plagiarism is defined as the failure to give credit for the use of material from outside sources.

Plagiarism includes but is not limited to:

- Submitting other's work as your own
- Using data, illustrations, pictures, quotations, or paraphrases from other sources without adequate documentation
- Reusing significant, identical or nearly identical portions of one's own prior work without acknowledging that one is doing so or without citing this original work (self-plagiarism)

Cheating is defined as obtaining answers/material from an outside source without authorization.

Cheating includes, but is not limited to:

- Plagiarizing in any form
- Using notes/books/electronic material without authorization
- Copying
- Submitting others' work as your own or submitting your work for others
- Altering graded work
- Falsifying data
- Exhibiting other behaviors generally considered unethical
- Allowing your work to be submitted by others

Makeup Policy

This course is based on the Competency Based Education model. All work may be completed on a flexible schedule, and may be retaken until mastery has been achieved. *Communication with instructor regarding timelines for finishing projects is essential for online learning*

Help

Available learning services or opportunities for students seeking help with their course work. May include information about tutors, learning centers, reserved library materials, open labs, counseling services.

It is important to contact a Center for Student Success professional prior to the start of the semester in order to receive accommodations in a timely manner. While we will make every effort to coordinate accommodations in a timely manner, failure to self-identify prior to the start of the semester may delay notification to instructors and timeliness of acquiring accommodations. Accommodations do not automatically carry over to the next semester.

<https://www.jccmi.edu/center-for-student-success/accommodations-for-students-with-disabilities/>

Calendar

Calendar timelines and assignments are an approximation and could be changed.

Week 1: Introduction to 3D modeling, Workspace, Coordinates, Commands, Wireframes

Week 2: Surface Modeling

Week 3: Solid Modeling

Week 4: Extrusions, Regions, Advanced Solid Modeling

Week 5: Multiview Drawings from 3D models, Symmetrical Features

Week 6: Advanced Modeling Tools

Week 7: Photorealistic Rendering

Important Dates: Fall 2019

DATE	EVENT
3/23/2020	SEMESTER BEGINS
5/8/2020	SEMESTER ENDS

Attendance Policy

Students must regularly and actively participate in the class, and check in with the instructor regarding progress and feedback on work. Students who fail to check in during the first week, or who stop participating throughout the semester could be dropped from the course to comply with federal Title IV regulations.

Caveat

Some changes may be necessary to this syllabus. School closings, illness, and other unexpected circumstances could result in a change the assignments and schedule. These changes will be promptly communicated to the student.