

AutoCAD 1

CAD 151 | Syllabus | Fall 2016 | Eddie Burkhead | BurkheaEdwardL@jccmi.edu

Time and Place: Tuesday, Thursday 5pm to 4:54pm, JW 202

Description: This course will prepare students to use computer aided design (CAD) to produce high quality prints that utilize all current ANSI terminology and standards.

Outcomes: After completing this course, students will be able to:

- Understand the different processes for producing a complete technical drawing
- Understand how to effectively use AutoCAD to produce drawings
- Use a variety of different commands and techniques to create and edit digital geometry
- Perform calculations using AutoCAD as an aid for finding different information
- Produce high quality technical drawings

Text: *Technical Drawing 101 with AutoCAD 2016*, Smith, Ramirez, Schmidt.

Grading: Your grade will be determined out of a total of 450 possible points earned throughout the duration of the course. The point break down is as follows:

Homework: 15 points

Drawings: 120 points

Quizzes: 120 points

Final Project: 45 points

TOTAL: 300 points

Final Grades will be assigned for the following scores:

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 50 - 59%

0.0 0 - 54%

Attendance and participation are mandatory. Failure to attend each class and participate with enthusiasm could result in a lower grade. If you are unable to attend due to sickness, death in the family, or other Acts of God, please e-mail the instructor as soon as you are able.

Late-work is accepted if a reasonable excuse can be given. Points will be deducted accordingly. Exceptional work delivered on time may be given extra credit.

To pass this course, you need a 2.0 grade.

Only courses with passing grades count toward graduation or a certificate. Other colleges transfer in only courses with passing grades. Many financial aid sources, including most employers, require passing grades.

Incompletes

No incomplete grades will be given in this class except under extraordinary circumstances and if the student has completed at least 75% of the work and has at least 2.0 in the course. The grade of "I" is not awarded to students who did not attend, or seldom attended, or to those who simply are not pleased with their final grades. Students receiving an "I" may submit the remaining work during the next class offering by attending the remainder of the class. Or, talk to me about specific arrangements to complete the remaining work in a manner that is acceptable to me. Students do not redo work that had already been graded. Students may drop the class up to the drop deadline as specified on the website calendar. See http://www.jccmi.edu/student-services/registration/grading_system.htm for more info

Attendance, Participation grades (HQV), and Final Grades:

Attendance is perhaps the most important predictor of success in this course. If you are unable to attend a class, inform the instructor as soon as possible. Based upon circumstances, any missed due dates or late work may be penalized or rejected at the discretion of the instructor. Typically a 10% reduction per day late will be assessed.

Participation is not the same as showing up. It is important that you contribute to and benefit from the learning of others by sharing your observations, insights, and questions.

You will receive 3 HQV grades during the semester (see Participation Reporting, p16 of the JCC catalog). You can view your HQV grades and final grades in e-services on the JCC website, by clicking the students menu, then clicking the grades by term hotlink.

* V means verify. It verifies that you are participating

* H means you need help. You will be contacted by the Center for Student Success.

* Q means you have been withdrawn from the course due to lack of attendance. Contact student services

Please Note:

Students with disabilities who believe that they may need accommodations in this class are encouraged to inform the instructor and/or contact the office of Learning Support Services at 787-0800, extension 8270/8553 as soon as possible to ensure that such accommodations are implemented in a timely fashion.

College Closing:

Any cancellation of classes will be announced on the local radio stations. You can also call the switchboard (800) 787-0800. Also see <http://www.jccmi.edu/info/closings.htm>

In the case of a school closing I will email you with further instructions regarding our next class.

Academic Honesty Policy

The JCC Academic Honesty policy states that **academic honesty is expected of all students**. It is the ethical behavior that includes producing their own work and not representing others' work as their own, either by plagiarism, by cheating, or by helping others to do so. **Cheating is obtaining answers/materials from an**

outside source without authorization. Cheating includes, but is not limited to: Plagiarizing in all forms, using notes/books without authorization, copying, submitting others' work as your own or submitting your work for others, altering graded work, falsifying data or exhibiting other behaviors generally considered unethical.

Plagiarism is the failure to give credit for the use of material from outside sources. Plagiarism includes but is not limited to: Using data, quotations, or paraphrases from other sources without adequate documentation, submitting others' work as your own, or exhibiting other behaviors generally considered unethical. **Faculty members who suspect a student of academic dishonesty may penalize the student by taking appropriate action up to and including assignment a failing grade for the paper, exam, or the course itself.**

<http://www.jccmi.edu/administration/deans/Policies/Academic%20Honesty%20Policy.doc>

Conduct:

Students are expected to behave in a mature, respectful manner in the classroom and laboratory. Use of computers, tablets, and phones during class is distracting to students and instructors. Do not be this person! If you need your phone on to monitor for emergencies, discuss options with the instructor prior to class. All cell phones and other devices will be turned off during exams or tests (calculators excluded).

Calendar

Date	Class	Module	Topic	Assignment
9/6/2016	1	1	Introduction	CAD Survey Project, Blueprint Examples
9/8/2016	2	1	Drafting Review - Linetypes and Projection Views	Drawing 1 - Drawing Views
9/13	3	1	Drafting Review - Dimensioning, Tolerancing, and Notes	Dimensioning Views
9/15/2016	4	1	Drafting Review - Sections, Assemblies and Titleblocks	Quiz 1 - Drawing Rules
9/20/2016	5	2	Navigating AutoCAD and Drawing Lines	
9/22/2016	6	2	Creating Geometry - Lines and Polylines	Drawing 2 Lines
9/27/2016	7	2	Creating Geometry - Arcs, Splines, and Shapes	
9/29/2016	8	2	Layers, Linetypes, Properties, and Settings	Drawing 3 - Children's Drawing
10/4/2016	9	2	Modifying Geometry - Copy, Erase, Mirror, Offset, Move, Rotate	
10/6/2016	10	2	Modifying Geometry - Array, Scale, Stretch, Trim, Extend, Explode	Drawing 4 - Maze
10/11/2016	11	2	Modifying Geometry - Hatches and Fills, DSettings	
10/13/2016	12	2	Modifying Geometry - Review and Quiz	Quiz 2 - Creating and Editing, Drawing 5 - 3 view part
10/18/2016	13	3	Drafting in AutoCAD - Layers Setup	
10/20/2016	14	3	Drafting in AutoCAD - Tutorial	Drawing 6 - Mechanical Part
10/25/2016	15	3	Dimensioning Drawings - Tutorial	
10/27/2016	16	3	Dimensioning Drawings - Linear, Aligned, Ordinate	Drawing 7 - Mechanical Part dimensioning
11/1/2016	17	3	Dimensioning Drawings - Baseline, Quick, Other Commands	

11/3/2016	18	3	Dimensioning Drawings - Tolerances and Style Manager	Drawing 8 - Mechanical Drawing w/ Custom Dimensions
11/8/2016	19	3	Architectural Drafting Conventions	
11/10/2016	20	3	Leaders, Text, and Notes	Drawing 9 - Cabin
11/15/2016	21	3	Module Review and Quiz	Quiz 3 - Drafting, Dimensions, and Notes
11/17/2016	22	4	Sections in Mechanical and Architectural Drawings	Drawing 10 - Mechanical Section
11/22/2016	23	4	Hatches, Countersinks, and Counterbores	
11/24/2016	X		Thanksgiving	
11/29/2016	24	4	Plot Styles	Drawing 11 - Architectural Section
12/1/2016	25	4	Blocks	
12/6/2016	26	4	Titleblocks and Paperspace	Drawing 12 - Working Drawing
12/8	27	4	Module Reivew and Quiz	Quiz 4 - Sections, Blocks and Working Drawings
12/13/2016	28	5	Assign Final Project, 3D Overview	Final Drawing Project
12/15/2016	29	5	3D Tutorial	
12/20/2016	30	5	3D Turorial and Work Day	
12/22/2016	31	5	Final Projects Due	