

Student Learning Outcomes for CDI 81A

AutoCAD (Intermediate)

Team Members:

Team Leader:

[Louis Gary Lamit](#) (8627) in CDI

Additional team members/notes about team:

Additional Notes:

Other members:

1. [Max Gilleland](#) (x5578) CDI
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Outcomes:

Outcome 1 Phase I: Statement

Functioning as a drafter using AutoCAD, the student will complete numerous exercises in compliance with industry-defined standards. The exercises shall include: * mechanical engineering drawings for components and assemblies* architectural drawing including floor plans, elevations, and sections

Outcome 1 Phase II: Assessment Strategy Used:

Assessment Quarter: Spring 2011

Assessors: Sam Tanna

Assessment Tools: ••

Sections being assessed: 61, Z

Outcome 1 Phase III: Reflect & Enhance

Number of people involved in Phase III: 38

Changes:

N/A

Methods:

Assessment Tools:*1 Mid-Term Examination*1 Final Examination*1 Student Design & Documentation Portfolio*Numerous small, targeted projects which were assigned throughout the quarter*1 Final Project requiring demonstration of tools learned throughout the Beginning and Intermediate Class.Methods:Catalyst Course Management System was used to issue, receive, & grade assignments throughout the quarter. I have had to revise my original concepts of Catalyst and its relationship to my students numerous times this year. I hope to apply even more enhancements for the upcoming courses to more fully employ the functions inherent in Catalyst so that I might provide students with a compelling, supportive, challenging educational experience. An additional benefit of Catalyst enhancements is to more fully automate the SLOAC cycle as it relates to CDI. *Reading assignments, video lectures, help available in the Catalyst forum and messaging, feedback on each assignment during grading, all generated in the 14 chapters of the current text are the foundation of the course content.*Numerous projects of various sizes & complexity are assigned throughout the quarter*10 quizzes are used to measure the students command of factual information presented in the textbook and video lectures.*1 Mid-Term (a timed makeup examination is offered to a few qualifying students)*1 Final Examination*1 Final Project requiring demonstration of tools learned throughout the Beginning and Intermediate Class.Examinations and projects are used to measure the students ability to control the software and apply drafting principals.*Final Student Documentation Portfolio (Adobe Acrobat pdf format) is used to collate and document all course work except that done in the quiz and Exams.

Findings and Conclusions:

General trends; AutoCAD software is widely used in architecture, civil engineering and the support of industrial and product design. CAD software continues to be the tool used by product and production designers to communicate their ideas among themselves and their enterprise. This will continue to be the case and will become even more sophisticated as hardware and software continue to evolve.In general, the student who takes the instructors advice to budget 8 hours/week (equivalent to the face to face class period) of study devoted to this particular course does very well, while the student who shorts the time spent on the course work doesn't do as well. If I can achieve one goal in the coming quarters, it will be to inspire my students to commit time for this course each week. All other things being equal, the student who works hard will get a better grade than the student who does not.We did have a rather high (50%) dropout rate. Some of the students were dismayed to discover that knowledge of drafting was required to learn the software but that fact alone does not explain the large numbers. The original class included 19 more students than completed the class. 7 of those students dropped before the first day of class and 2 more in the first week of the class. Of the remaining ten students, five dropped (without comment for the most part) during the next four weeks. I released five more students for lack of attendance after repeatedly warning them of the impending danger. I dropped these students just before the last cut day so that they would not fail the class. Over 40% of the students in this section completed all of the work, with about 60% excellences (completion of 90+% of all assigned course work).16 students completed the class and received a grade. 2 students have been given an incomplete contract.

Enhancement (Planned Actions)**Part I:**

Use the lessons learned from this first time online offering to encourage students to

participate in a timely manner. The largest single impediment to student's success seemed to be a willingness to procrastinate. AutoCAD, like most other skills, is learned by practice. Our online class was self-paced which seemed to be too much responsibility for most students. I plan to require timely submission of all assignments with severe penalties to students unwilling to comply. Since no assignments can be completed without reviewing the text, quizzes will be completed on the same schedule. I will be online at least once each school day to answer questions, grade assignments, and feedback assignment comments.

Part II:

N/A

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