Syllabus for: DT 73
Architectural Drafting-Residential Design

Semester & Year:	Fall, 2015
Course ID and Section Number:	E 8122 DT 73 Architectural Drafting-Residential Design
Number of Credits/Units:	3
Day/Time: **Location:**	M,W 10:05- 12:35 AT 105
Instructor's Name:	Paul Kinsey
Contact Information:	Office…… AT 124 Office hours…… by appointment Phone…… 476-4349(office), 476-4100 ext.4623 (const. tech lab) E-mail..... paul-kinsey@redwoods.edu

Course Description (catalog description as described in course outline):

A study of residential design practices, drafting of working drawings, and development of construction specifications. Students will work collaboratively on the computer-aided design of the Construction Technology project house to be built the following academic year. Design criteria will include site analysis, lot condition, neighborhood, form, and function. Students will work with local building departments to secure approval of plans.

Student Learning Outcomes (as described in course outline) :

- ❑ 1. Prepare proposal drawings for a single family residence.
- ❑ 2. Use CAD software to create 3D building information models (BIM) for site analysis and a complete set of working drawings for a single family residence.
- ❑ 3. Analyze a BIM model in terms of form and function, with consideration for common building practices, applicable codes, and drafting standards.
- ❑ 4. Research a significant individual in the field of architecture, and present the findings to the class.

Special accommodations: College of the Redwoods complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. Please present your written accommodation request at least one week before the first test so that necessary arrangements can be made. No last-minute arrangements or post-test adjustments will be made. If you have a disability or believe you might benefit from disability related services and may need accommodations, please see me or contact Disabled Students Programs and Services. Students may make requests for alternative media by contacting DSPS.

Academic Misconduct: Cheating, plagiarism, collusion, abuse of resource materials, computer misuse, fabrication or falsification, multiple submissions, complicity in academic misconduct, and/ or bearing false witness will not be tolerated. Violations will be dealt with according to the procedures and sanctions proscribed by the College of the Redwoods. Students caught plagiarizing or cheating on exams will receive an "F" in the course.

The student code of conduct is available on the College of the Redwoods website at: http://www.redwoods.edu/District/Board/New/Chapter5/Ap5500.pdf

College of the Redwoods is committed to equal opportunity in employment, admission to the

college, and in the conduct of all of its programs and activities.

College of the Redwoods
Drafting Technology Department Course Syllabus: DT 73
Architectural Drafting-Residential Design

Semester……	Fall, 2015
Course number……..……	E 8122
Units……..…	3
Meeting times…….	M,W 10:05- 12:35
Classroom……	AT 105
Instructor……	Paul Kinsey
Office……	AT 124
Office hours……	by appointment
Phone……	476-4349(office), 476-4100 ext.4623 (const. tech lab)
E-mail.....	paul-kinsey@redwoods.edu

Course Description:

A study of residential design practices, drafting of working drawings, and development of construction specifications. Students will work collaboratively on the computer-aided design of the Construction Technology project house to be built the following academic year. Design criteria will include site analysis, lot condition, neighborhood, form, and function. Students will work with local building departments to secure approval of plans.

Textbook:

Jefferis, A. and Madsen, D. (2009). Architectural Drafting and Design. Clifton Park, N.Y.: Del Mar/Thomson Learning.

Materials: In addition to the text, you will need a variety of pencils, three ring binder (for notes and tutorials) and a USB storage device to store and submit your work.

Required drawings for this course will be completed using Auto Desk Revit software.

Student Learning Outcomes

Upon successful completion of this course, the student will be able to:

- ❑ 1. Prepare proposal drawings for a single family residence.
- ❑ 2. Use CAD software to create 3D building information models (BIM) for site analysis and a complete set of working drawings for a single family residence.
- ❑ 3. Analyze a BIM model in terms of form and function, with consideration for common building practices, applicable codes, and drafting standards.
- ❑ 4. Research a significant individual in the field of architecture, and present the findings to the class.

Class Format: Lecture/ lab

Course Management: This course will be managed using the CR Canvas learning environment. Course information, announcements, and current grades are available through the CR Canvas link at **redwoods.edu.** Additionally, it is incumbent upon the student to check the accuracy of their grade. Please make your instructor aware of any errors and omissions by Wednesday of finals week.

Course Requirements: As a student drafter in DT 73 you are required to attend lectures, participate in labs in which you will work on and complete architectural drawings, read the text assignments and engage yourself fully in the tests, quizzes and assignments.

Assessment

Student success will be evaluated in the following areas: Grading Criteria

10%	On time participation and class effort	90 - 100%	= A Excellent
09%	Quizzes and Midterm	80 - 89%	= B Above Average
20%	Homework and Assignments	70 - 79%	= C Average
50%	Projects	60 - 69%	= D Below Average
11%	Semester final	0 - 59%	= F Fail

Note: Semester Final, Monday Dec. 7, 10:45-12:45

Participation and Class Effort (10%)

Students in DT73 are expected to arrive on time and participate in class lectures, labs and activities.

Quizzes and Midterm (9%)

Quizzes and the midterm will cover information presented in the lectures and textbook reading assignments. Quizzes and midterm not taken on the announced date will receive reduced credit.

Homework and Assignments (20%)

Homework and reading assignments are used as discussion topics and are due at the end the lecture hour. Homework also includes sketching assignments. Additionally, all students are expected to present an architect's biography. This course is based on Carnegie Units of instruction. As such, this being a three unit course, students are expected to complete six hours of out-of-class homework and reading assignments each week.

Projects (50%)

Project work includes the drawings for the student built house. You are required to submit the following CADD drawings during the semester.

Bubble Drawings (sketched, not CADD)
Site Plan
Proposed Floor Plan

Final set of architectural plans that include:

Cover sheet
Site plan
Floor plan(s) including plumbing and mechanical
Elevations
Foundation plan w/ detail
Framing Section
Roof plan w/ detail
Construction notes, specifications and schedules
Electrical plan

Semester Final (11%)

A paper-based final exam covering lectures, homework and lab projects will take place at 10:45 a.m. on Monday, Dec. 7th , 2015.

Student Code of Conduct Standards

All College of the Redwoods students are encouraged to familiarize themselves with, and conform to, college rules and regulations governing personal conduct on all campuses of the district as set forth in the current college catalog.

CAVEAT: The schedule and procedures for this course are subject to change in the event of extenuating circumstances.