COURSE SYNOPSIS
HONOLULU COMMUNITY COLLEGE
AEC 130
RESIDENTIAL WORKING DRAWINGS

FALL 2012

INSTRUCTOR: MICHAEL JENNINGS

CLASS LOCATION: BUILDING 2, ROOM 616
CLASS HOURS: 8:30 - 11:45 PM MONDAY AND WEDNESDAY

OFFICE LOCATION: BUILDING 2, ROOM 615
OFFICE HOURS: 12:00 - 1:00 PM MONDAY-THURSDAY
9:30-10:30 AM FRIDAY

OFFICE PHONE: 845-9408
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A. **PURPOSE:**

This course presents advanced single-family residential drawing with greater emphasis on creativity, complexity, and municipal standards and restrictions. Site planning, excavating, residential planning and design presentation, architectural finishes, furnishings, application of codes studied in AEC 131, and selection and sequencing of drawings are some of the topics of this course.

B. **STUDENT LEARNING OBJECTIVES:**

1. Demonstrate the setup and organization of a residential drawing project set using CAD software.
2. Using Computer-Aided Design (CAD) software, draw a set of two-story residential construction drawings to include:
   a. A title sheet
   b. A site plan
   c. A foundation plan
   d. A floor framing plan
   e. A roof framing plan
   f. Exterior elevations
   g. Interior elevations
   h. Building sections
   i. Wall sections
   j. Details
   k. A window schedule
   l. A door schedule
   m. A room finish schedule
3. Prepare a brief site data analysis using the current version of the City and County of Honolulu Land Use Ordinance that proves the residential project complies with land use regulations.
4. Demonstrate the annotation of a complete set of architectural drawings using text, tags, dimensions and callouts.
5. Report to a workplace regularly and punctually, engage effectively and congenially with peers and supervisors, work from written as well as oral instructions, use assigned time efficiently for productive work and meet production deadlines.

C. **COURSE STRUCTURE:** 1 hour lecture, 6 hours lab per week

Unit 1. Site planning, zoning and the land use ordinance
Unit 2. Schematic Design, building codes and accessibility codes
Unit 3. Design Development, structures and foundations
Unit 4. Project Layout
Unit 5. Plans, Sections and Elevations
Unit 6. Detailing and Schedules
Unit 7. Project coordination

D. **TEXT BOOK:**

Graphic Guide to Frame Construction by Rob Thallon, Taunton Press, 3rd Ed., 2008, 978-1-60085-023-3

REFERENCE MATERIALS:

The Architect's Studio Companion: Rules of Thumb for Preliminary Design, by Edward Allen and Joseph Iano, John Wiley and Sons Publishing, 4th Ed., 0471736228

Land Use Ordinance, International Building Code, Uniform Federal Accessibility Standards

E. GRADING:

Quizzes, Homework, Schematic Drawing Assignments:	=	25% of course grade
Design Development Drawings:	=	20% of course grade
Final Drawing Assignments:	=	40% of course grade
Attendance AND Participation:	=	15% of course grade

Attendance will be graded as follows:

No absences:	A+
One absence:	A
Two absences:	B+
Three absences:	B
Four absences:	C+
Five absences:	C
Six absences:	D
Seven or more absences:	F

Absences for which a medical or court appearance excuse is provided (professional letterhead is required) will be recorded but not figured in the attendance grade. Any significant tardy or early departure from class will be figured as a half absence. Since this is a vocational education course, attendance is as important in class as it is in the professional workplace. Students may take ONE free absence for personal reasons without penalty if they notify the instructor before the beginning of the class period to be missed.

F. SUPPLIES:

18" or 24" wide roll of yellow or white tracing/sketch paper (optional)
1 USB Flash Drive (2 GB min. Recommended)
8 1/2" x 11" or 11" x 14" duplicating paper for use with inkjet printer

G. CLASSROOM POLICIES:

1. Professional courtesy, respect and language toward the instructor and your fellow students is expected in the classroom at all times. Refer to the college catalog for college policies on nondiscrimination and affirmative action.
2. Plagiarism, cheating and copying of work done by others is not tolerated. Refer to the college catalog for college policies on student conduct.
3. Project deadlines: All projects are to be turned in at the end of the class period on the due day unless otherwise specified by the instructor. Project assignments that are turned in late will be evaluated then dropped one grade for each calendar day beyond the deadline.
4. Clean up: Keep your own area and common areas neat and clean. Computer station chairs should be rolled under the table when class ends to provide better ingress and egress of students to the lab stations.
5. Personal audio devices: The operation of personal audio devices is not permitted in class during lecture periods. The instructor may allow them during non-lecture periods only if headphones are used and only upon approval.
6. Food: Food and beverages shall not be consumed in the classroom, except in designated areas.
7. Classroom Time: No drawing or other work is permitted during lecture or demonstration periods. Lab time shall be spent on work assigned in this class only.
8. Cellular Phones: During class, all cellular phones should be turned off, or alternately, ringers may be set to silent or discreet settings so as to not disturb your classmates or instructor. All calls are to be taken outside of the classroom area. Students whose ringers interrupt class will receive a warning on the first occurrence and will be asked to leave on the second occurrence. The student will receive an unexcused absence on the second occurrence.

H. **FINAL PROJECT DUE DATE:**

The final project prints will be submitted for grading by 12:00 pm on Monday, December 10, 2012 in room 616.

HAVE A GREAT SEMESTER!!!