CASPER COLLEGE COURSE SYLLABUS
ENTK 1710-01 Architectural Drafting I

Semester/Year: Spring 2016

Lecture Hours: 2    Lab Hours: 4    Credit Hours: 4

Class Time: 12:30-3:15pm    Days: TTH    Room: GW212

Instructor’s Name: Jason Eggemeyer

Instructor's Contact Information:
Office Phone: 268-2409    Email: jeggemeyer@caspercollege.edu
Cell Phone: 258-3216

Office Hours: MW 8:30AM-9:00AM, 11:50AM-12:30PM, 3:15PM-3:55PM
TTH 11:50AM-12:30PM

Course Description: Planning homes with emphasis on today’s residential designs. Develop floor plans, kitchen design, elevations, cost estimates and various rendered pictorial presentation drawings using sketching and computer-aided design techniques. Designs will follow local, state and national code specification.

Statement of Prerequisites: Entk 1510 Drafting I

Goal:
- For each student to be familiar with building codes, technical manuals and terms within the industry.
- To develop in each student the ability to research and use definite criteria to program and design a residence for a perspective client.
- To develop in each student the ability to graphically communicate ideas for construction purposes using both hand sketching and Revit.

Outcomes:
1. Solve problems using critical thinking and creativity.
2. For each student to develop a competent base for further exploration in residential design and architectural drafting using both hand sketching and Revit.
3. For each student to be familiar with residential building codes, technical manuals and terms within the industry.
4. To develop in each student the ability to research and use definite criteria to program and design a residence for a perspective client.
5. To develop in each student the ability to graphically communicate ideas for construction purposes using both hand sketching and Revit.

Methodology: Students will be given daily lectures on the topic at hand, to be followed by studio work time. Students receive approximately 2 hrs per week of lecture with the remaining 4 hrs per week to complete assignments in a supervised studio experience.
Most assignments will require time outside of class to complete. To facilitate working outside of regular class hours, students will be given a form to gain access to the lab during “after hours.” Each project in this class will build upon previous work, therefore, please keep all projects for a final portfolio review at the end of semester. The portfolio will be graded on completeness and presentation and included as a daily assignment.
Casper College demands intellectual honesty, proven cheating, plagiarism, or any form of dishonesty can
result in the offender failing the course or being expelled from school. There will be no makeup tests given unless previous arrangements have been made.

**Evaluation Criteria:**
Project point value is listed on the schedule.

- 675-750 = A
- 600-674 = B
- 525-599 = C
- 450-524 = D
- 449-0 = F

Casper College may collect samples of student work demonstrating achievement of the above outcomes. Any personally identifying information will be removed from student work.

**Required Text, Readings, and Materials:**
Title: Architectural Drafting & Design
Author: Jefferis, Madsen
Edition: 6th
ISBN#: 978-1435481626
Pencils and an assortment of felt tip pens of varying widths for sketching, architect’s and civil engineer’s scales, soft eraser, drafting tape, strait edge, USB flash memory drive

**Class Policies:**
1. Students missing more than 5 classes will be given the choice of taking an “F” for the class, withdrawing from class or changing to an audit and continue to participate,
2. There will be no makeup quizzes or tests given.
3. Home work is due at the beginning of the next class.
4. Late assignments will not receive full credit! 10% will be deducted for every day the assignment is late.
5. Casper College demands intellectual honesty. Proven cheating, plagiarism, or any form of dishonesty can result in the offender failing the course or being expelled from school.
6. Cell phones are considered a disruption of class. Please turn them off or set on vibrate. If you must use them do it outside the classroom.

**Last date to change to Audit Status or to Withdraws with a W Grade:**
Please refer to the current Casper College Academic Calendar.

**Student Rights and Responsibilities:** Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

**Academic Dishonesty:** (Cheating & Plagiarism) Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

**Official Means of Communication:** Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly. This is also, where you will find course evaluation links during course evaluation periods.

**ADA Accommodations Policy:** If you need academic accommodations because of a disability,
please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college’s Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

Schedule:

**Project #1 / Two Car Garage**
Floor plan, two wall sections, and elevations
(50 points)

**Project #2 / Spec House**
(2) Floor plan sketches
(25 points)

**Project #2 (1) Finalized Floor plan sketch**
(25 points)

**Project #2 Progress Set: site plan, floor plan, two wall sections, and elevations**
(50 points)

**Project #2 Final Set: site plan, foundation plan, floor plan, two wall sections, elevations, electrical plan, plumbing/HVAC plan**
(200 points)

**Week 4 Test #1**
(100 points)
**PART I: INTRODUCTION TO ARCHITECTURAL DESIGN AND DRAFTING.**
1. Professionals Architectural Careers, Office Practice and Opportunities.
2. Introduction to Construction Procedures.
**PART II: RESIDENTIAL DESIGN.**
9. Guidelines and Required Codes that Affect Building Design.
10. Room Relationships and Sizes.

**Week 8 Test #2 (midterm week)**
(100 points)
**PART III: SITE PLANNING.**
13. Site Orientation.
14. Legal Descriptions and Site Plan Requirements.
15. Site Plan Layout.
**PART IV: THE FLOOR PLAN.**
16. Floor Plan Symbols.
17. Floor Plan Dimensions and Notes.
**PART VII: ELEVATIONS.**
24. Introduction to Elevations.
25. Elevation Layout and Drawing Techniques.

**Week 12 Test #3**
(100 points)
**PART V: SUPPLEMENTAL FLOOR PLAN DRAWINGS.**
20. Plumbing Plans.
**PART VI: ROOF PLANS.**
22. Roof Plan Components.
**PART VIII: FRAMING METHODS AND PLANS.**
27. Environmentally Friendly Framing Methods.
28. Structural Components of Framed Construction.
30. Sizing Joist and Rafters Using Span Tables.
31. Determining Simple Beams.
32. Drawing Framing Plans.

**Week 16 Test #4 (finals week)**
(100 points)
**PART IX: FOUNDATIONS PLANS.**
33. Foundation Systems.
34. Floor Systems and Foundation Support.
**PART X: SECTIONS AND DETAILS.**
36. Sectioning Basics.