CASPER COLLEGE COURSE SYLLABUS
ENTK 1870 – 01 Building Materials & Systems

Semester/Year: Spring 2016

Lecture Hours: 3 Lab Hours: 0 Credit Hours: 3
Class Time: 8:30AM-9:45AM Days: TTh Room: GW 212

Instructor’s Name: Jason Eggemeyer

Instructor's Contact Information: Email and text messages are the most efficient methods of contacting me.
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: Building materials and structural systems as they relate to the construction industry. Methods of construction, environmental impact and code requirements.

Statement of Prerequisites: None

Goal: To give the student a basic knowledge of building materials and systems to prepare them for entry into the construction industry.

Outcomes:
1. To provide a basic understanding of principles and practices of the building industry.
2. To enable students to recognize proper application of materials and techniques of construction.
3. To develop knowledge so that sound decisions can be made in selecting and applying building systems and materials.

Course Objectives: (Connect to CC outcome if possible)

Methodology: The material will be presented using a variety of methods including: lectures, videos, slides, discussions, and field trips.

Evaluation Criteria: (be very specific – if you grade on participation, say so. Give as specific details on numbers of exams, quizzes, etc as you can, - you cannot change evaluation criteria without properly notifying the students- a written revision is better than just a verbal one. Let them know your percentage point cut-offs)
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: Construction, Materials, Methods, Techniques, Spence 3rd Edition

Class Policies: Last Date to Change to Audit Status or to Withdraw with a W Grade:
(withdrawal deadline; see: “Admission and Registration – Schedule Changes” in the catalog) (Your attendance policy, exam, homework, assignment make-up policy, anything particular to your class)
**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.

**Chain of Command:** If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Dean, and lastly the Vice President for Academic Affairs.

**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.

**Calendar or schedule indicating course content:**

Test 1
3 Properties of Materials  
5 Soils  
6 Foundations  
7 Concrete  
8 Cast-in-Place Concrete  
9 Precast Concrete  
11 Clay Brick and Tile  
12 Concrete Masonry  
14 Masonry Construction

Test 2
15 Ferrous Metals  
17 Steel Frame Construction  
18 Wood, Plastics, and Composites  
19 Products Manufactured from Wood  
20 Wood and Metal Light Frame Construction  
21 Heavy Timber Construction  
22 Finishing the Exterior and Interior of Light Wood Frame Buildings

Test 3
25 Thermal Insulation and Vapor Barriers  
26 Bonding Agents, Sealers, and Sealants  
27 Bituminous Materials  
28 Roofing Systems
Test 4
29 Glass
30 Doors, Windows, Entrances, and Storefronts
31 Cladding Systems

Test 5
32 Interior Finishes
33 Paintings and Coatings
34 Gypsum, Lime, and Plaster
35 Acoustical Materials
36 Interior Walls, Partitions, and Ceilings
37 Flooring
38 Carpeting

Test 6
42 Special Construction
43 Conveying Systems
44 Fire-Suppression Systems
45 Plumbing Systems
46 Heating, Air-Conditioning, Ventilation, and Refrigeration
47 Electrical Equipment and Systems