CASPER COLLEGE COURSE SYLLABUS

CNTK 1870-01 BUILDING MATERIALS & SYSTEMS

Semester/Year: Spring 2015

Lecture Hours: 3

Credit Hours: 3

Class Time: 9:00-10:15

Days: Monday-Wednesday

Room: WT 121

Instructor's Name: Mark Steinle Ph.D.

Instructor's Contact Information:
Office Phone: 268-2411
Email: msteinle@caspercollege.edu
Office WT 146

Office Hours: Current schedule on office door or by appointment

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.

Institutional Outcomes
☐ Demonstrate effective oral and written communication
☐ Use the scientific method
☒ Solve problems using critical thinking and creativity
☐ Demonstrate knowledge of diverse cultures and historical perspectives
☒ Appreciate aesthetic and creative activities
☐ Use appropriate technology and information to conduct research
☒ Describe the value of personal, civic, and social responsibilities
☐ Use quantitative analytical skills to evaluate and process numerical data

Program goals: Promote lifelong learning and provide students with adequate foundation for success in the Construction or related industries

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 structural systems and materials.
Methodology: Lecture, group discussions, videos, text, handouts, assignments, and exams.

Evaluation Criteria:
Tests covering each topic: 90% of total grade
Attendance: 10% of total grade

100-90 – A
89-80 – B
79-70 – C
60-69 – D

Anything below 60 will be an “F”. Attendance and participation will influence the final grade if the percentage is within a point of the next grade level, boosting the total to the next higher grade. Students are advised to attend the lectures as this is the material that will appear on the quizzes and consequently the final.

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: Please refer to current college 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.

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.

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.

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:
TOPIC OUTLINE

1. Soils
2. Wood
3. Concrete
4. Concrete Masonry Units
5. Pre-cast Concrete
6. Brick and Tile
7. Stone
8. Metals
9. Gypsum & Lime
10. Glass
11. Bituminous Materials
12. Plastics
13. Insulating Materials
14. Acoustical Materials
15. Adhesives, Sealers and Sealants
16. Protective and Decorative Coatings