

Course Syllabus
Southeast Missouri State University
Department of Industrial and Engineering Technology

CM143

Construction Methods and Materials I

I. Catalog Description and Credit Hours of Course

Study of the materials, procedures, and processes utilized in the building construction industry with primary emphasis on residential construction. 3 credit hours.

II. Prerequisite (s)

None

III. Purpose of the Course:

- A. Demonstrate safe operation of tools and understanding of safe procedures
- B. Understand basic framing techniques
- C. Understand other aspects of residential construction

IV. Student Learning Outcomes

- A. Students will be able to demonstrate safe operation of tools and equipment while conducting labs.
- B. Students will be able to identify and determine materials from architectural drawings.
- C. Students will be able to apply engineering principles in the selection of materials.

V. Expectations of Students

- A. Class attendance and participation are required, **both lecture and lab**.
- B. Complete all assignments and projects on time.
- C. Attend and participate in class discussions and labs.
- D. Integrate the knowledge gained from their previous education and experience to apply to the project situation.
- E. Learn any additional material required to complete the project, on their own, through the use of the library, communication with others both at the university and their project companies, and from any other applicable resources.
- F. In a professional environment, work areas are kept clean. In keeping with a professional attitude towards fellow students, always clean your area before leaving
- G. All laboratory work must be completed during the regularly scheduled lab time.
- H. The last day of class will be devoted to laboratory cleanup only. All students are required to participate.
- I. Unexcused absences are unacceptable. If you are not going to be able to attend class for any reason, you must inform the instructor before the class you will be missing.
- J. Students are required to read the assigned chapters for discussion and lab.
- K. Late work is unacceptable unless pre-approved.
- L. Assignments may not be turned in to department secretary.
- M. Please no eating or drinking in the labs.
- N. Headsets are not allowed during class time including lab time, unless approved by the instructor.
- O. Cell phones, Pagers, Etc. must be turned off in class.

VI. Course Outline

Description	Hours	
Safety	3	
Light Framing	8	
Roofs		8
Windows and Doors	4	
Insulation and ventilation	8	
Exterior Cladding	5	
Electrical	6	
Masonry and Masonry construction	4	
Plumbing	8	
Interior Finishes	4	
Sustainability	4	
Final		2
Total Hours	62	

Note: Print reading to be integrated throughout the entire course. Students are required to work off prints for each lab exercise.

VII. Textbook(s) and/or Other Required Materials or Equipment

- Mehta, M., Scarborough, W., Arm Priest, D. (2008). Building Construction Principles, Materials, and Systems. New Jersey, Pearson Education Inc.
- Eye protection that meets current specifications of the American National Standards Institute (ANSI). Eye protection must be worn at all times that equipment and tools are being used by anyone.

VIII. Basis for Student Evaluation

Assignments/Labs.....	40%
Quizzes.....	20%
Tests.....	20%
Final/Final Project	20%

Grading Scale:

A =	100 - 90%
B =	89 - 80%
C =	79 - 70%
D =	69 - 60%
F =	59 - 0%

Instructor reserves the right to change the content and/or sequencing of the materials presented and will notify students of any change.

Questions, comments or requests regarding this course or program should be taken to your instructor. Unanswered questions or unresolved issues involving this class may be taken to the department chair, Dr. Deken (651-2104).