ARCHITECTURE, CONSTRUCTION & MANUFACTURING TECHNOLOGIES DIVISION

CONSTRUCTION TECHNOLOGY DEPARTMENT

COURSE SYLLABUS

COURSE NUMBER: CNBT 1311  Online -  Spring 2024 (6242-F8A)
COURSE TITLE: Construction Materials and Methods
CREDITS: 3 (3 lecture)
PREREQUISITE / COREQUISITE: CNBT 1201

<table>
<thead>
<tr>
<th>Class</th>
<th>Class Title</th>
<th>Days &amp; Times</th>
<th>Room</th>
<th>Class Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNBT 1311-01 (17178)</td>
<td>Construction Materials &amp; Methods (Lecture)</td>
<td>Live Support Meeting</td>
<td>HCC Online</td>
<td>Jan 16, 2024 – Mar 10, 2024</td>
</tr>
</tbody>
</table>

INSTRUCTOR
Eva Lyon, BSA, MCM, CDT, DE Instructor
Classroom: Online by Eagle Online (Canvas LMS)
Office Hours: Tuesday (Not Mandatory) by Live Virtual Support Meeting or by appointment (Cisco Webex). [https://eagleonline.hccs.edu/courses/213254/external_tools/30443](https://eagleonline.hccs.edu/courses/213254/external_tools/30443)
Contact: By Eagle Online (Inbox in our Canvas Course) After Session begins: Include your Student ID number, Course name, and CRN number in the subject line on all messages. See syllabus and more information on the Learning web: [http://learning.hccs.edu/faculty/eva.lyon](http://learning.hccs.edu/faculty/eva.lyon)

COURSE DESCRIPTION
Introduction to construction materials and methods and their applications.

END-OF-COURSE-OUTCOMES
Identify construction materials; list their applications; and describe the various methods of construction. Explain the development and use of new materials being introduced to the construction industry under sustainable building standards.

<table>
<thead>
<tr>
<th>STUDENT LEARNING OUTCOMES</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLO # 1</td>
</tr>
<tr>
<td>SLO # 2</td>
</tr>
<tr>
<td>SLO # 3</td>
</tr>
<tr>
<td>SLO # 4</td>
</tr>
<tr>
<td>SLO # 5</td>
</tr>
</tbody>
</table>
COURSE OBJECTIVES
Upon completion of this course, the student will:
• Explain safety practices and procedures and describe commonly used building materials.
• Describe construction documents and define terms associated with construction projects.
• Identify the various methods used in construction and recognize requirements in const. projects.
• Identify tables, charts, and guidelines for construction materials.
• Describe and compare methods and techniques for various types of construction.
• Describe construction classifications and occupancy categories.
• Demonstrate dexterity in selecting materials.

STUDENT EVALUATION
The percentage of the total grade determined by each part of the course assessment sequence:
• Book Quizzes 25%
• Assignments 20%
• Middle Term Exam 15%
• Attendance/Participation 15%
• Exercises/Test in class 10%
• Class Project/Final Presentation 15%

Total: 100% (Instructor may modify the ratio)

GRADING PROCEDURE
A = 90 –100   B = 80 – 89   C = 70 – 79   D = 60 – 69   F = below 59

Textbook:
Fundamentals of Building Construction: Materials and Methods, Last Edition
Edward Allen, Joseph Iano ISBN: 978-1-119-45025-2 Publisher: Wiley and Sons; Copyright: 2019

Table of Contents
Chapter 1: Making Buildings.
Chapter 2: Foundations and Sitework.
Chapter 3: Wood.
Chapter 4: Heavy Timber and Mass Timber Construction.
Chapter 5: Wood Light Frame Construction.
Chapter 6: Exterior Finishes for Wood Light Frame Construction.
Chapter 7: Interior Finishes for Wood Light Frame Construction.
Chapter 8: Brick Masonry.
Chapter 9: Stone and Concrete Masonry.
Chapter 10: Masonry Wall Construction.
Chapter 11: Steel Frame Construction.
Chapter 12: Light Gauge Steel Frame Construction.
Chapter 13: Concrete Construction.
Chapter 14: Sitecast Concrete Framing Systems.
Chapter 15: Precast Concrete Framing Systems.
Chapter 16: Designing The Building Enclosure
Chapter 17: Roofing.
Chapter 18: Glass and Glazing.
Chapter 19: Windows and Doors.
Chapter 20: Cladding with Masonry and Concrete.
Chapter 21: Cladding with Metal and Glass.
Chapter 22: Selecting Interior Finishes.
Chapter 23: Interior Walls and Partitions.
Chapter 24. Finish Ceilings and Floors.

COURSE POLICIES

Schedule/Topics Outline
The schedule for this class includes a topic outline/schedule that is not in this syllabus, in a separate link to a calendar document “Class Schedule” in your Eagle Online course in Syllabus & Schedule.
https://www.hccs.edu/online/student-support/

Attendance
Students are expected to attend classes regularly, and to be on time for every class period. Students can be dropped from a class due to excessive absences. Excessive tardiness may be considered absences. Students are responsible for subjects, assignments, and projects covered during their absences. Consult the Student Handbook for more details or visit http://www.hccs.edu/hccs/current-students/student-handbook

Academic Honesty
Scholastic dishonesty is treated with the utmost seriousness by the instructor and the College. Academic dishonesty includes, but it is not limited to the willful attempt to misrepresent one’s work, cheat, plagiarize, or impede other students’ scholastic progress. Consult the Student Handbook for more details.

Students with Disabilities
Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Support Services Office at his / her respective college at the beginning of each semester. Faculties are authorized to provide only the accommodations requested by the Disability Support Services Office. Central College, call 713-718-6164.

Cell Phones, iPhones, iPad
All cell phones must be muted, set to vibrate, or turned off during class. Cell phone activity during class is deemed disruptive to the academic process and will not be tolerated. If you need to make or receive an emergency call, please leave the classroom.

Parking Rules and Regulations
Students are required to follow HCC’s regulations regarding parking and permits. For additional information, visit http://www.hccs.edu/hccs/about-hcc/police/parking/parking-rules-and-regulations

Books, Tools and Supplies
Students are required to purchase and bring to class the required textbooks, tools, notebooks, supplies, and writing instruments as required by the instructor.

Dress Code
Dress code must be appropriate for the class. Students must dress in a way that clothing and accessories do not compromise their safety, and the safety of others. Proper foot wear is required in all laboratories. Absolutely no sandals or other footwear that exposes the feet will be allowed.

Classroom & Laboratory Conduct
Proper behavior is expected in all classes and laboratories. Foul language and horseplay are not allowed. Making or receiving cell phone calls during class are not allowed. Sleeping in class is not allowed.

Course Withdrawal
It is the responsibility of the student to officially withdraw from a course before the official withdrawal deadline. A student who does not withdraw from a course by the deadline will receive an “F” as the final grade. Also note that under Section 51.907 of the Texas Education Code, an institution of higher education may not allow a student to drop more than six courses.

Discrimination
Students should be aware that discrimination and/or other harassment based on race, sex, gender identity and gender expression, national origin, religion, age, disability, sexual orientation, color or veteran status is prohibited by HCC Policy G.1 Discrimination and Harassment and D.1.1 Equal Educational Opportunities. Any student who feels they have been discriminated against or harassed on the basis of race, sex, gender identity, gender expression, national origin, religion, age, disability, sexual orientation, color or veteran status including
sexual harassment, has the opportunity to seek informal or formal resolution of the matter. All complaints/concerns should be directed to the Office of Institutional Equity, 713 718-8271 or oie@hccs.edu. Additional information may be obtained online. Visit http://www.hccs.edu/district/departments/institutionalequity/ Complaints involving sexual misconduct to include but not limited to: sexual assault, stalking, dating violence, sexual harassment or domestic violence should be directed to the HCC Title IX Coordinator, Renée Mack at 713 718-8272 or renee.mack@hccs.edu.