

M.E. Rinker, Sr.
School of Building Construction
University of Florida
Semester Course Outline

BCN 1210 – Construction Materials Fall 2020 3 Credits

Instructor: Dr. Aladdin Alwisy, RNK 311, Rinker Hall
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Prerequisites: None

Description: The course provides a general overview of basic construction materials, properties, manufacture, and uses.

Objectives: Students will learn elements relating to the principles of construction methods and techniques. Basic understanding of the built world that surrounds us and how it is constructed.

Recommended Text: *Basic Construction Materials*, Theodore Marotta, 8th Edition.
Olin's Construction Principles, Materials and Methods; Simmons, H. Leslie: John Wiley & Sons, 9th Edition

Classes *Zoom Meetings:*
Mondays, Wednesdays, and Fridays (Period 6) 12:50 PM – 1:40 PM
<https://ufl.zoom.us/j/94693382888?pwd=NmlLZ0JqbUtjWGtWSEpQV1VqSXhTd09>
Passcode: **BCN1210OC**

Office Hours *Zoom Meetings:*
Wednesdays (Period 7-8-9) 1:55 PM – 4:55 PM
<https://ufl.zoom.us/j/95758991700?pwd=T1Y2SDNaaU9CdnlBYiB6L2JTNiBRUT09>
Passcode: **BCN1210F20**

By Appointment:
Email aalwisy@ufl.edu. Subject line should read *BCN 1210 APPOINTMENT REQUEST*-<your name>.
Provide a brief description of what you want to discuss. Also please suggest one or two alternate times for scheduling other student requests. I will send you an e-mail about the appointed time.

TA: *TBD*

Attendance: Attendance is mandatory. You have three unexcused absences. To have an absence excused, you need to bring proof of why it was unavoidable (doctors note, etc.)

Quizzes: *NO MAKEUP QUIZZES.* There will be Nine (9) online quizzes given during the semester. You will have about 3 days (from Friday after class till Sunday) in which to start your quiz, but after starting it you will only have 50 minutes to complete it. Quiz results must be discussed in person within 24 hours after the quiz has been taken. After 24 hours the grade is final. *Makeup exams will not be given.*

Quiz Grades: The lowest quiz grade will be dropped while calculating final grade because of low performance or absences due to medical reasons, school-related activities, family issues, emergencies, work-related issues and other unforeseen circumstances. No make-up quiz will be given.

Final Exam: Final exam will be available online on (TBD).

Bonus points: Bonus points opportunities will be given through the semester in class.

Grade Makeup: Final grades will be calculated as follows:

Attendance	100
Homework	225
Top 8 of 9 in-term quiz grades @ 50 points	400
Final exam	100
Team Project Reports	75
Individual Course Paper	100
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	1000

Grade Scale: Divide the total points you earn by **1000 total possible points**. Grades will be given according to the following scale. **Decimal points will not be Rounded.**

Letter Grade	Numeric Grade
A	≥ 93
A-	≥ 90 AND < 93
B+	≥ 87 AND < 90
B	≥ 83 AND < 87
B-	≥ 80 AND < 83
C+	≥ 77 AND < 80
C	≥ 73 AND < 77
C-	≥ 70 AND < 73
D+	≥ 67 AND < 70
D	≥ 63 AND < 67
D-	≥ 60 AND < 63
F	<60

Student Evaluations: Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

Accommodations: Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an

accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Honor Code: All students in this course are subject to the requirements of the University of Florida’s Honor Code <https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/> . Cheating will not be tolerated. Although joint work on assignments may be acceptable in some cases, duplication of an assignment either manually or electronically will be dealt with as an act of academic dishonesty. “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.”

Counseling: Contact information for the Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx> (Links to an external site.), 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies

Reservations And Remedies: The instructor reserves the right to modify the course schedule, grade make-up, grade scale, modules, and any other aspect of the course as deemed fit throughout the term without notice. The updated Syllabus will be uploaded on the course’s Canvas. For any questions, issues, or concerns about the course (assessment, policies, schedule, etc.), please contact the instructor to remedy them.

Weekly Course Schedule:

Week/ Date	Activity	Topic/Assignment (Question/Subject)	Assigned Work Due
Week 1 Aug 31- Sep 4	Topic	Module 1 BCN 1210 – Introduction Work Sequence Building Projects Masterformat_2016	N/A
	Assignment	Assignment #1: Masterformat	Sep 4-7
	Quiz	Unit Quiz	Sep 4-7
Week 2 <u>Sep 8-11</u>	Topic	Construction Industry Participants Bidding and Negotiation	N/A
	Assignment	N/A	N/A
	Quiz	N/A	N/A
Week 3 Sep 14-18	Topic	Project Delivery Process Owner-Contractor Relationships Feasibility Studies	N/A
	Assignment	N/A	N/A
	Quiz	Quiz #1	Sep 18-20
Week 4 Sep 21-25	Topic	Module 2 Standards codes and specifications Material Properties Division 2 – Existing Conditions	N/A
	Assignment	Assignment #2: Material Properties	Sep 25-27

Week/ Date	Activity	Topic/Assignment (Question/Subject)	Assigned Work Due
	Quiz	Quiz #2	Sep 25-27
Week 5 <u>Sep 28 – Oct 1</u>	Topic	Module 3 Division 3 Portland Cement Concrete Introduction Division 3 PCC Joints, Hardened Concrete Testing Division 3 PCC Manufacturing, Testing and Placement	N/A
	Assignment	Assignment #3: Concrete	Oct 1-4
	Quiz	Quiz #3	Oct 1-4
Week 6 Oct 5 – 9	Topic	Module 4 Division 4 Introduction and clay units Division 4 part 2 CMU	N/A
	Assignment	Assignment #4: Concrete	Oct 9-11
	Quiz	N/A	N/A
Week 7 Oct 12-16	Topic	Division 4 Part 3 Mortar and Grout Division 4 Reinforcement, Anchor, Ties and Flashing	N/A
	Assignment	Assignment #5: Masonry	Oct 16-18
	Quiz	Quiz #4	Oct 16-18
Week 8 Oct 19 - 23	Topic	Module 5 Division 5 Iron and Steel Metals aluminum, copper	N/A
	Assignment	Assignment #6: Metal	Oct 23-15
	Quiz	Quiz #5	Oct 23-15
Week 9 Oct 26-30	Topic	Module 6 Division 6 Wood - General Information Division 6 Wood - Strength of Wood Division 6 Wood - Classification and Protection	N/A
	Assignment	Assignment #7: Wood	Oct 30-Nov1
	Quiz	Quiz #6	Oct 30-Nov1
Week 10 Nov 2 - 6	Topic	Module 7 Division 32 Asphalt materials, types and testing Division 32 Asphalt operations, design mix and construction	N/A
	Assignment	Assignment #8: Asphalt	Nov 6-8
	Quiz	Quiz #7	Nov 6-8
Week 11 <u>Nov 9 - 13</u>	Topic	Module 8 Division 7 - Thermal Protection Division 8 – Openings	N/A
	Assignment	N/A	N/A
	Quiz	N/A	N/A
Week 12 Nov 16-20	Topic	Module 8 Division 8 – Openings Division 9 - Finishes Walls and Ceilings Division 9 - Finishes flooring and painting	N/A

Week/ Date	Activity	Topic/Assignment (Question/Subject)	Assigned Work Due
	Assignment	N/A	N/A
	Quiz	Quiz #8	Nov 20-22
Week 13 <u>Nov 23-24</u>		Module 9 Division 21 - Fire Suppression Division 22 - Plumbing	
	Assignment	N/A	N/A
	Quiz	N/A	N/A
Week 14 Nov 30 – Dec 4	Topic	Division 23 - HVAC Division 26 - Electrical	N/A
	Assignment	N/A	N/A
	Quiz	Quiz #9	Dec 4-6
Week 15 <u>Dec 7 - 9</u>	Topic	Overview	N/A
	Assignment	N/A	N/A
	Quiz	N/A	N/A
Exam Week	Final Quiz		TBD