

Construction Materials

BCN 1210

General Information

Class:	Website:	https://ufl.instructure.com
	Room:	RNK 110
	Times:	12:50 - 1:40
	Days:	Monday, Wednesday, Friday
Instructor:	Dr. Damon Allen	
	Email:	mvbdt@ufl.edu and damontallen@gmail.com
	Phone number:	352-234-3266 (cell number - it can receive texts)
	Physical Office:	Rinker 340
	Office Hours:	2:00 - 4:50 P.M. Monday 11:45 - 1:40 P.M. Wednesday Or by appointment (or if I am in my office)
	Online Office:	Contact me via email
	Online Hours:	As soon as I can respond
Teaching Assistant:	TBA	
	Email:	TBA
	Office:	TBA

Required Text

1. Simmons, H. Leslie: Olins Construction Principles, Materials and Methods; John Wiley & Sons, 9th Edition, ISBN: 978-0-470-54740-3
2. Additional reference material will be linked in the notes and on the class website.

Additional Text

(Only used as reference.)

1. Basic Construction Materials - 7th edition
2. Sustainable Construction - 3rd edition
3. Green Building: Project Planning & Cost Estimating - 2nd edition
4. Select Lynda.com Tutorials (free for students)

Description of Course

The course provides a general overview of basic construction related materials, properties, manufacturing / fabricating processes, and uses.

Subject Aims

This course is intended to be an introduction to the main construction materials currently used in industry along with an introductory understanding of aspects of green building materials.

Course Learning Outcomes (CLOs)

1. Examine the properties of common construction materials and their behaviors under different environments, short- or long-term (SACS SLO 1, ACCE SLO 8).
2. Assess material properties, mechanical tests and quality control tests for wood and wood products, concrete, masonry, glass, plastics, iron and steel, aluminum and aluminum products, paints and protective coatings, bituminous products, gypsum products, resilient flooring, and carpeting (SACS SLO 1, ACCE SLO 8).
3. Appraise appropriateness and sustainability of materials for construction projects (SACS SLO 1, ACCE SLO 18).

ACCE - American Council for Construction Education
 SLO - Student Learning Outcome
 SACS - Southern Association of Colleges and Schools

ACCE SLO 1.	Apply knowledge of engineering, materials, and methods, equipment, processes to safely construct buildings and structures.	- Introduced
ACCE SLO 8.	Analyze methods, materials, and equipment used to construct projects.	- Introduced
ACCE SLO 18.	Understand the basic principles of sustainable construction.	- Introduced
SACS 1.	Apply knowledge of engineering, materials, methods, equipment, and processes to safely construct buildings and structures.	- Introduced

Assessment	CLO 1	CLO 2	CLO 3	Target
Sustainability Quiz			X	At least 80% receive a B or better
Modules 1-12 Quiz Total		X		At least 80% receive a 73% of possible or better
Materials Quiz	X			At least 80% receive a C or better

Table 1: Assessment Matrix

Course Activities

There will be three lecture/discussion periods per week with corresponding reading assignments from the text. Text assignments should be done before the class in which they are discussed. Students are responsible for the content of all reading materials whether or not the material is covered in class. Although class is scheduled for three meetings per week, some Friday-class sessions may be substituted with guest lectures or individual/group projects.

Assessment

The assessment will be based on individual student's demonstration of fulfilling the course objectives as set out in the syllabus and there will be no leniency based on previous accomplishment in other classes. The course will be examined using:

- Quizzes
- Participation
- Homework

The course instructor reserves the right to grade assigned problems either on detailed checking or based on attempt as well as the right to not grade work that does not satisfy mandatory specifications.

Make up assignments, or quizzes will only be given upon proof of extenuating circumstances or prior arrangements. Please pay close attention to the deadlines on the Syllabus page on [Canvas](#), and turn your work in before it is due.

Grading System

The points for every quiz and assignment will be added together and then the percentage of the total out of the possible point amount will be used to determine 80% of your grade. The remaining 20% will be based on class attendance and participation.

Quizzes + Assignments:	80%
Participation:	10%
Attendance:	10%
<hr/> Total:	<hr/> 100%

Grading Scale

A-: 90% - 92.9%	A: 93% - 100%	
B-: 80% - 82.9%	B: 83% - 86.9%	B+: 87% - 89.9%
C-: 70% - 72.9%	C: 73% - 76.9%	C+: 77% - 79.9%
D-: 60% - 62.9%	D: 63% - 66.9%	D+: 67% - 69.9%
E: < 60%		

Homework Policy

Assignments will be accepted up to the established time. Any Assignment turned in after the deadline will be graded at 75% of the original credit at one day late, 50% at two days, and 25% at three days. Any assignment turned in more than three days late will not be accepted and the student will receive a 0 (zero) on the assignment. All work turned in for this course is expected to be of professional quality in content and presentation.

Quiz Policy

Quizzes must be done on time since they are available on-line and can be submitted anytime after they are available and up until they are due.

Participation Policy

Participation is part of your grade. There is one class discussion on the schedule (which counts as having the class participation) and I will announce any additional discussions, and guest lectures in advance. If you are going to miss an event, get permission ahead of time for an absence.

Students are expected to act with integrity and composure at all times and there will be zero tolerance for unbecoming conduct which includes, but is not restricted to rude comments and disruptive behavior.

Attendance Policy

I will be taking attendance for all scheduled events. Additionally I will periodically be taking attendance during regular class times. The record of attendance will count as half of the participation portion of your grade (10% of final grade) in the in-person sections.

Honor Code

Be aware of the Honor System of University of Florida. All students in this course are subject to the requirements of the University of Florida's Honor Code. 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.

Remedies

Students who fail to comply with the listed behavior will be excused from the class and advised to seek readmission through the School's Director of Undergraduate Studies. University Policy on Accommodating Students with Disabilities: Students requesting accommodation for disabilities must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drc/>). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking the quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

Schedule

Topic	Assignment	Due Date
Start Here Section/Course Introduction	-	Mon Aug 29
Materials	Quiz	Wed Sep 07
Module 1: Sustainability	Quiz	Wed Sep 14
Module 2: Metals	Quiz	Wed Sep 21
Module 3: Wood	Quiz	Wed Sep 28
Module 4: Asphalt	Quiz	Wed Oct 05
Module 5: Concrete	Homework	Mon Oct 10
	Quiz	Wed Oct 19
Module 6: Masonry	Quiz	Wed Oct 26
Module 7: Moisture	Quiz	Wed Nov 02
Module 8: Flooring	Quiz	Wed Nov 09
Module 9: Carpet	Quiz	Wed Nov 16
Module 10: Gypsum	Quiz	Mon Nov 21
Module 11: Paint	Quiz	Wed Nov 30
Module 12: Glass and Plastic	Quiz	Wed Dec 07

Homework assignments may also be posted to the Canvas Modules and the Syllabus pages throughout the course.

Fall Semester Holidays

Mon	Sep 05, 2016
Fri	Oct 14, 2016
Fri	Nov 11, 2016
Wed	Nov 23, 2016
Thu	Nov 24, 2016
Fri	Nov 25, 2016