

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

BCN 4237 – Roofing Systems

Spring 2015

3 Credits

Honor Code: Students are expected to comply with the spirit and intent of the University of Florida Honor Code, which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” Students are required to bring a photo ID to all tests to be presented to the proctor upon completion of the exam.

Instructor: Kurt Strauss MSBC, CBC1255801, RESNET Rater
kurt.strauss@sfcollege.edu
Santa Fe College
Charles R. Perry Construction Institute
Building O – Room O-120

Meeting Periods:

Section(s)	Days	Hour	Room
All (Undergrad)	Wednesday	7-10	238
Workdays	TBA	TBA	Santa Fe College

Prerequisites: None

Course Description: Study and analysis of building various roof systems, including design, materials, installation, estimation, inspection, maintenance and building science concepts. Study and analysis of building various envelope systems, including design, materials, installation, estimation, inspection, maintenance and building science concepts. An emphasis will be on residential buildings.

Delivery: Classroom lectures and field workdays focusing on the fundamentals and typical applications of roofing and envelope systems using current technology along with typical tools and practices of the trade.

Method: One to three hour lecture/discussion periods per week with corresponding reading assignments from the text. Lecture time to be substituted with appropriate hands on labs to be completed at the Perry Construction Institute at Santa Fe College. 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. STUDENTS are responsible for class preparation and performance.

Text Suggested: Roofing Construction & Estimating, Daniel Atcheson, Copyright 1995, ISBN 1-57218-001-2

Homework:	Homework is due prior to each Lecture class. Lecture attendance is based on completed homework submitted within the first three minutes of class start time. No exceptions. Homework assignment 1-10 will be turned in using either the Sakai program or hard copies and will count as 10 points each.																
Exams:	There will be two written exams covering both the PowerPoint presentations, text book readings and homework assignments. Exams are not cumulative.																
Group Presentations:	Group presentations require you to apply lessons learned both from the text and group lab assignments. They will be conducted with your lab groups and you will be presenting as a contractor on system design, material takeoff and estimation, installation techniques, inspection requirements and maintenance recommendations. Groups will be given a floor plan and a site location and will be required to develop roof and envelope systems for the presentation.																
Attendance:	Requirements for class attendance and make up exams, assignments, and other work in this course are consistent with university policies that can be found in the online catalog at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx																
Workday Project(s):	Using the skills and knowledge learned from this course the class will install a new asphalt shingle roof on the Santa Fe V house located in the "Hanger" at the Perry Construction Institute at Santa Fe College (O-Building). Time/Date TBA. We will also re-roof a house with Rebuilding Together. Time/Date TBA.																
Labs:	Students will be required to attend all (3) labs. They will be held during the normal classroom hours. Lab assignment will be the test review for the Performance Exams. Labs may be held at Santa Fe College (O-Building).																
Grade Makeup:	Final grades will be on a similar scale as follows depending on work covered during the semester:																
	<table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">Homework (10)</td> <td style="text-align: right;">200</td> </tr> <tr> <td>Classwork (TBD)</td> <td style="text-align: right;">100</td> </tr> <tr> <td>Exams (2)</td> <td style="text-align: right;">200</td> </tr> <tr> <td>Performance Exams (2)</td> <td style="text-align: right;">200</td> </tr> <tr> <td>Attendance (Individual)</td> <td style="text-align: right;">50</td> </tr> <tr> <td>Participation (Individual)</td> <td style="text-align: right;">50</td> </tr> <tr> <td><u>Workday Project (Group)</u></td> <td style="text-align: right;"><u>200</u></td> </tr> <tr> <td>TOTAL</td> <td style="text-align: right;">1000</td> </tr> </table>	Homework (10)	200	Classwork (TBD)	100	Exams (2)	200	Performance Exams (2)	200	Attendance (Individual)	50	Participation (Individual)	50	<u>Workday Project (Group)</u>	<u>200</u>	TOTAL	1000
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TOTAL	1000																

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

A	93.0-100
A-	90.0-92.99
B+	87.0-89.99
B	83.0-86.99
B-	80.0-82.99
C+	77.0-79.99
C	73.0-76.99
C-	70.0-72.99
D+	67.0-69.99
D	63.0-66.99
D-	60.0-62.99
E	Less than 60

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Class website: Canvas

Quality: It is expected that everything submitted for a grade will be professional with correct spelling and grammar. With regard to homework/quizzes – 10 points is for going above what is asked, 8-9 points for meeting the minimum of what is expected, 5-7 points for quality work that may not be correct in scope. When available use software to produce your work. The goal is for all work to represent what you would fax/submit to your immediate boss in a job scenario. There is no credit for submitting late work.

Communication: No work will be accepted via an e-mail submission unless structured submittal via e-learning as an upload. Please try to communicate with me during office hours or before/after class periods. You are important to me as a student - I am simply overwhelmed with electronic communication. Please feel free to keep me in the loop with regard to your situation but I am limited to respond. I will respond to e-mails/texts at my discretion. You are responsible for addressing grades/omissions within one week of the grade being posted on e-learning. After one week the grade/input stands for the class regardless of cause or circumstance.

Students with Disabilities: Students requesting classroom accommodation must first register with the Dean of Student Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation.

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Course evaluations: Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assignments are available to students at: <https://evaluations.ufl.edu>

Calendar:

1/6/2016	Class Introduction
1/13/2016	Low Slope Roof Assemblies
1/20/2016	Guest Presentation (TBD)
1/27/2016	Steep Slope Roof Assemblies
2/3/2016	Energy Considerations for Roof Assemblies
2/10/2016	Roofing Project Workday (TBD)
2/17/2016	Test 1
2/24/2016	Wood Frame Wall Assemblies
3/09/2016	Masonry Wall Assemblies
3/16/2016	Project Work Day 2 (TBD)
3/23/2016	Commercial Wall Assemblies
3/30/2016	Guest Presentation (TBD)
4/6/2016	Building Science – Roof/Envelope Systems
4/13/2016	Energy Considerations for wall assemblies
4/20/2016	Test 2
4/27/2016	Group Projects Due – Presentations