

2012-2013 Undergraduate Academic Assessment Plan Template

Building Construction

Design, Construction and Planning

Robert Ries, Director

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M. E. Rinker Sr., School of Building Construction Undergraduate Academic Assessment Plan

Mission Statement

The mission of the M. E. Rinker, Sr. School of Building Construction is to be the center of excellence for construction. The Rinker School will pursue this by:

1. Promoting professional and ethical behavior in education and practice,
2. Advancing the industry by creating new knowledge through research and scholarly activities,
3. Educating individuals in principles, knowledge and skills required to be successful in their professional careers, and
4. Providing service and transferring knowledge to the citizens of Florida, the construction industry, professional societies, the nation, and the world.

The Rinker School will achieve this mission by fostering a core culture of value and quality. This mission directly supports aspects of all 11 goals of the College of Design, Construction, and Planning's strategic plan of 2007 and wholly supports the Teaching, Research and Scholarship, and Service mission of the University of Florida.

Student Learning Outcomes (SLOs)

1. Interpret knowledge of engineering, materials, methods, equipment, and processes to safely construct buildings and structures.
2. Survey and quantify building components to estimate project costs, analyze progress, and control expenditures.
3. Create an effective planning, scheduling and control system by identifying, evaluating and organizing the diverse elements of a construction project.
4. Set up and manage project administration and management systems to efficiently document and monitor the construction process.
5. Describe technical and financial data effectively in speech and in writing to all stakeholders in the construction process.

Curriculum Map for:

Program: Bachelor of Science in Building Construction

College: Design, Construction and Planning

Key: Introuced

Reinforced

Assessed

<u>Courses</u> <u>SLO's</u>	BCN 3027	BCN 3223	BCN 3224	BCN 3255	BCN 3281	BCN 3431	BCN 3521	BCN 3611	BCN 3700	BCN 3730	BCN 4423	BCN 4510	BCN 4612	BCN 4709	BCN 4720	BCN 4753	BCN 4787	Additional Assessments
	C	C	C	C	C	C	C	C			C	C	C	C			C	
Content Knowledge																		
#1		R	I	I	R	I	R			I	R	A Tests 2, 3, 4					A Assignment 6	American Institute of Constructors (AIC) exam
#2								I					R			R	A Assignment 7	American Institute of Constructors (AIC) exam
Critical Thinking																		
#3	I														R		A Assignment 8	American Institute of Constructors (AIC) exam
#4	I		I					I						R			A Assignment 9, 10, 11 & 12	American Institute of Constructors (AIC) exam
Communi- cation																		
#5	I		I	I						I				R	R	R	A Presentation 1, 2 & 3	American Institute of Constructors (AIC) exam

Assessment Cycle for:

Building Construction _____

Design, Construction and Planning

Analysis and Interpretation:

November-December

Improvement Actions:

Completed by May 15th

Dissemination:

Completed by August 20th

SLOs	Year	10-11	11-12	12-13	13-14	14-15	15-16
Content Knowledge							
#1		X	X	X	X	X	X
#2		X	X	X	X	X	X
Critical Thinking							
#3		X	X	X	X	X	X
#4		X	X	X	X	X	X
Communication							
#5		X	X	X	X	X	X

SLO Assessment Matrix Template for 2013-14

2013-14 Student Learning Outcome	Assessment Method	Measurement Procedure
NOTE: this has been completed to the extent possible for all programs.		
#1	Tests 2,3, 4 in BCN 4510C Assignment 6 in BCN 4787C	70% or higher passing score on tests and assignments Also 70% or higher passing score on the Engineering concepts, materials, methods, project modeling and visualization, construction safety, construction geomatics portions of the AIC exam
#2	Assignment 7 in BCN 4787C	70% or higher passing score on assignment Also 70% or higher passing score on the bidding and estimating, budgeting, costs, cost control portions of the AIC exam
#3	Assignment 8 in BCN 4787C	70% or higher passing score on assignment. <i>*See example of scoring rubric for a project-based assignment.</i> Also 70% or higher passing score on the planning, scheduling, and schedule control portions of the AIC exam
#4	Assignments 9, 10, 11 & 12	70% or higher passing score on assignments Also 70% or higher passing score on the management concepts, project administration portions of the AIC exam
#5	Presentation 1, 2 & 3	70% or higher passing score on presentations Also 70% or higher passing score on the communication skills

BCN 4787 Capstone	
Assignment # 8 Project Schedule	
	Max Value
Properly Distributed Estimated Costs	20
Cost Loaded Schedule	
Overall Quality - Logic	20
Milestones - Inspections	5
Holidays & No-work days	5
Barcharts w/precedences	10
Cost Report by Activity	
Histogram & Cash Flow Curve	15
Line of Credit Analysis	
Spreadsheet	15
Cost curves	5
Weather Days Planning Justification	5
MAXIMUM TOTAL POINTS	100

Indirect assessments are achieved through several methods. Periodic curriculum reviews are conducted by a subcommittee of the Executive Committee of the Advisory Council which includes industry representatives and alumni. Student exit interviews are conducted with new graduates as well as a five-year follow up survey. Employer surveys are conducted yearly which rate the graduates in over a dozen skill sets, and student employment surveys which include placement and salary data.

Assessment Oversight

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